

# THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

Armorial Bearings granted by Letters Patent



## OFFICIAL DESCRIPTION OF THE ARMS

*Azure two Wings conjoined in base Or surmounted of an open Book proper bound Gules edged Gold in chief a Rose also Gules irradiated Or and charged with a Rose Argent both Roses barbed and seeded proper And for the Crest On a Wreath of the Colours A demi Terrestrial Globe proper ensigned with an Ancient Lamp Argent garnished Or enflamed also proper.*

# COMMONWEALTH UNIVERSITIES YEARBOOK

A directory to the universities of  
the British Commonwealth and  
the handbook of their Association



THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH  
36 GORDON SQUARE, LONDON, W.C.1, ENGLAND



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*The frontispiece is reproduced from the grant of arms  
issued to the Association by the College of Arms*

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## PREFACE

THIS, the fortieth edition of the *Commonwealth Universities Yearbook*, appears in the Jubilee year of the Association of Universities of the British Commonwealth, whose principal publication it is.

Founded in 1913 as the Universities Bureau of the British Empire, the A.U.B.C. is a voluntary society whose 138 members are institutions of university standing in the various countries of the Commonwealth. The Association, which works in a variety of practical ways to implement its aim of serving the interests of the universities of the Commonwealth and in particular of promoting contact and co-operation between them, is organizing the Ninth Quinquennial Commonwealth Universities Congress in London in July 1963; the Congress is being attended by more than 500 members and 130 Commonwealth universities are being represented.

First published in 1914, the *Yearbook* has been issued annually except during the war years. It is compiled to provide, in a single volume and in an up-to-date form suitable for quick reference, the essential facts about Commonwealth universities needed by university teachers and administrators, students, and others seeking detailed information about staff, organization, facilities and admission requirements. The *Yearbook* is published as a directory to university institutions of good standing in all countries of the Commonwealth and is not restricted to the universities and colleges which comprise the membership of the Association.

In the year preceding the publication of the 1963 *Yearbook* there has been such an expansion in the facilities for higher education that this edition contains entries for the largest number of new universities ever added to one issue. For the first time entries appear here for Waterloo University and Waterloo Lutheran University in Canada; Vidyalsankara University and Vidyodaya University in Ceylon; the Indian Institutes of Technology at Bombay, Kanpur, Kharagpur and Madras, and Kurukshetra University; Ahmadu Bello University and the University of Lagos in Nigeria; the East and West Pakistan Agricultural Universities and the East and West Pakistan Universities of Engineering and Technology; and the University of East Anglia in England.

Among the main features of the *Yearbook* are the 'national introductions' which commence the sections for each Commonwealth country with more than three or four universities. Each introduction (written by a leading university figure) is primarily intended as a factual guide for people abroad who wish to obtain the general background on university education in that particular country before turning to the separate university entries

and who will not necessarily be familiar with the basic assumptions locally current about that country's educational system. These authoritative essays range over the entire university scene in the country concerned; set out under carefully selected headings, they also refer to pre-university education and to institutions of higher education other than universities. Among the entirely new items in the 1963 book is an introduction to the pages for Pakistan which has been specially contributed by Dr. I. H. Qureshi, vice-chancellor of the University of Karachi; this (in accordance with the editors' general policy of making changes from time to time in the authorship of introductions after they have appeared in revised form in several editions) replaces the essay written by Dr. I. H. Zuberi when he was vice-chancellor of Rajshahi University. Professor I. D. Campbell, deputy vice-chancellor of the Victoria University of Wellington, has specially revised for this edition the introduction to the New Zealand section which was originally contributed by Dr. F. J. Llewellyn, now chairman of the New Zealand University Grants Committee.

Other special additions to this Jubilee edition of the *Yearbook* include the frontispiece (which is reproduced from the grant of arms issued to the Association in 1958 by the College of Arms), an historical list of its principal office-bearers since the foundation of the Universities Bureau of the British Empire, and a full description of the Association's aims, organization and activities. Also included for the first time is a section describing the functions of the central office which has been set up in the United Kingdom by the Universities Central Council on Admissions; the office of the U.C.C.A. is integrated with the Association.

Despite the addition of this new material the main reason for the 160-page increase in the length of this book as compared with its predecessor, is the steady growth of the teaching staffs and academic activities of existing universities.

One of the functions of the *Yearbook* is to provide basic data to assist a student proposing to go to a Commonwealth country for study in his choice of a university there (he should of course subsequently write to the registrar or secretary of the chosen university for complete and official information). In addition to the particulars, of for example 'First Degrees' and 'Higher Degrees', which are given in the separate chapter for each university, a detailed 'Directory to Subjects of Study' appears as part of each national introduction; there, in some cases in the form of tables, is given a summarized statement on 'where to study what' in that country's universities.

One of the most frequently used sections of the *Yearbook* is the Names Index. By means of this index it is possible to find at which university any of the 50,000 men and women who comprise the university teaching and administrative staff of the Commonwealth is serving. As well as providing a quick means of reference these comprehensive lists of names will provide raw material for any investigators seeking to measure the considerable movement of teaching staff from one country to another and from one university to another within the Commonwealth, as illustrated by the overseas degrees appearing after names.

As a key to other parts of the book the General Index will be found valuable, containing as it does references to institutions, to subjects of study and to such topics as Admission, Degrees, Superannuation, Vacation Courses, etc. It gives a ready guide for surveying the university provision throughout the Commonwealth in a particular field of study and a means of identifying in the book institutions whose country of location is not known.

The Appendices contain, *inter alia*, full entries for the universities of two countries now outside the Commonwealth which have expressed a wish to remain in the *Yearbook*—those of the Republic of Ireland (which, though not in actual membership of the Association, retain close associations with the Association of Universities of the British Commonwealth) and those of the Republic of South Africa (which under the legal interpretation of its constitution remain for the time being members of the Association). Appendix III con-

tains a unique summary—much used by candidates for admission and those who advise them—of the admission requirements of universities in Australia, Canada and the United Kingdom. Appendix VII describes in summary form the Commonwealth Scholarship and Fellowship Plan which was drawn up at the first Commonwealth Education Conference at Oxford in 1959 and was reviewed at the second conference in New Delhi in 1962.

The editors wish to make the *Yearbook* as effective of a work reference as possible and will give careful consideration to any constructive suggestions for its improvement which readers may wish to offer. Copies of the book may be consulted in the library or registrar's office of all Commonwealth universities and are understood to be available for reference in many other university libraries throughout the world.

The *Yearbook* is a co-operatively compiled work, the material for which is supplied from some 200 university or college offices in 22 countries to the office of the A.U.B.C. in London where it is edited before being sent to press. The Executive Council of the Association again wishes to express its thanks to the registrars, and to the authors of the national introductions, without whose sympathetic help this volume would not have been produced. It must be understood, however, that neither the Association nor the universities, while taking every care to ensure reliability, can accept responsibility for any error that may appear among the very many statements of fact which the book contains.

# THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

1962-63

Chairman: Sir DOUGLAS LOGAN, Principal, University of London  
Hon. Treasurer: Professor R. O. BUCHANAN  
Secretary: Dr. J. F. FOSTER Deputy Secretary: Mr. A. A. BATH

## EXECUTIVE COUNCIL MEMBERS

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Sir IVOR JENNINGS, Vice-Chancellor, University of Cambridge		Professor P. W. G. GROENEWOLD, Rector, University of the Orange Free State	
Sir PHILIP MORRIS, Vice-Chancellor, University of Bristol			
Dr. C. H. WILSON, Vice-Chancellor, University of Glasgow			
<i>Canada</i>		<i>India and Ceylon</i>	
Dr. C. T. BISSELL, President, University of Toronto		Sir A. LAKSHMANASWAMI MUDALIAR, Vice-Chancellor, University of Madras	
Rt. Rev. Mgr. I. LUSSIER, Rector, University of Montreal		Mr. D. C. PAVATE, Vice-Chancellor, Karnatak University	
<i>Australia</i>		<i>Pakistan</i>	
Dr. R. B. MADGWICK, Vice-Chancellor, University of New England		Mr. MOHAMMAD ALI, Vice-Chancellor, University of Peshawar	
Mr. S. L. PRISCOTT, Vice-Chancellor, University of Western Australia			
<i>New Zealand</i>		<i>Other Parts of the Commonwealth</i>	
Dr. F. G. SOPER, Vice-Chancellor, University of Otago		Dr. B. R. SREENIVASAN, Vice-Chancellor, University of Singapore	
		Dr. K. O. DIKE, Vice-Chancellor, University of Ibadan	

## STAFF

Secretary: J. F. FOSTER, MA *Melb. & Oxon.*, LL.M. *Melb.*, LL.D. *Laval*  
Deputy Secretary: A. A. BATH, BSc(Econ) *Belf.*  
Assistant Secretaries: E. E. TEMPLE, BA *Birm.* (Commonwealth Scholarships);  
T. CRAIG, MA *Glas.* (Publications)  
Senior Assistants: M. D. FORSTER, MA BSc(Econ) *Belf.* (Administrative);  
P. B. HETHERINGTON, MA *Camb.* (Appointments); S. W. C. HOLLAND, CBE, BA *Camb.* (Finance)  
Other graduate staff: EILEEN A. ARCHER, MA *Lond.*; HAZEL D. FALKNER, BA *Dub.*; CYNTHIA E. HAWES, BA *Lond.*; LINDY HEPPENSTALL, MA *St.And.*; JACQUELINE MCKIMMIE, MA *Edin.*; G. A. E. PARFITT, BA *Brist.*; M. L. SHATTOCK, BA *Oxon.*; DONNE SHERWIN, BSc(Econ) *Lond.*; RUBY SRINIVASAN, BA *Lond.*; CELIA M. R. WANNAN, LL.B. *Brist.*  
Twenty-three other officers

The Association of Universities of the British Commonwealth is a voluntary society whose members are institutions of university standing in the various countries of the Commonwealth. It was founded in 1913 as the Universities Bureau of the British Empire and changed to its present name in 1948; it is incorporated under the Companies Acts of the United Kingdom. There are at present 138 member institutions.

The headquarters of the Association are situated at No. 36 Gordon Square, London, W.C.1 (tel.: Euston 8572), close to the University of London Senate House and University College. Members of the teaching staff or other officers of any member university are invited, when visiting London, to call at these premises, where there is a common room and facilities for interviews. Overseas visitors are especially requested to register, on or before arrival in the United Kingdom, their names and addresses with the secretary at 36 Gordon Square, to enable enquiries and communications for them to be dealt with. A branch office for Commonwealth Scholarships and Appointments was opened in 1961 at Marlborough House, Pall Mall, London, S.W.1 (tel.: Whitehall 6617).

A full description of the functions of the Association, with its legal constitution and a list of its members and their representatives, will be found in Appendix VIII at page 1620.

The staff of the Universities Central Council on Admissions (secretary, L. R. Kay, BA *Sheff.*; assistant secretary, Mary Lake, BA *Lond.*), the office of which is integrated with the Association, are members of the A.U.B.C. staff.

# HISTORICAL LIST OF OFFICERS OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE AND THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH 1913-63

*(the university post given is that held at time of election)*

CHAIRMAN	<i>Period of Service</i>
Sir DONALD MACALISTER, Vice-Chancellor and Principal, University of Glasgow . . . . .	1913-1921
Sir GEORGE ADAM SMITH, Vice-Chancellor and Principal, University of Aberdeen . . . . .	1921-1926
Sir HARRY REICHEL, Vice-Chancellor, University of Wales and Principal, University College of North Wales, Bangor . . . . .	1926-1929
Dr. T. FRANKLIN SIBLY, Vice-Chancellor, University of Reading . . . . .	1929-1934
Dr. WILL SPENS, Master, Corpus Christi College, Cambridge . . . . .	1934-1938
Sir JOHN STOPFORD, Vice-Chancellor, University of Manchester . . . . .	1938-1943
Dr. THOMAS LOVEDAY, Vice-Chancellor, University of Bristol . . . . .	1943-1946
The Rt. Hon. LORD HARLECH, Pro-Chancellor, University of Wales . . . . .	1946-1949
Professor IAN A. GORDON, Vice-Chancellor, University of New Zealand . . . . .	1949-1950
Sir A. LAKSHMANASWAMI MUDALIAR, Vice-Chancellor, University of Madras, and Chair- man, Standing Committee, Inter-University Board of India . . . . .	1950-1952
Sir PHILIP MORRIS, Vice-Chancellor, University of Bristol . . . . .	1952-1953
Dr. W. A. MACKINTOSH, Vice-Chancellor and Principal, Queen's University at Kingston . . . . .	1953-1954
Dr. A. P. ROWE, Vice-Chancellor, University of Adelaide . . . . .	1954-1955
Dr. R. S. AITKEN, Vice-Chancellor and Principal, University of Birmingham . . . . .	1955-1956
Dr. M. R. SIDDIQI, Vice-Chancellor, University of Peshawar . . . . .	1956-1957
Dr. ANDREW STEWART, President, University of Alberta . . . . .	1957-1958
Dr. T. ALTY, Vice-Chancellor and Principal, Rhodes University . . . . .	1958-1960
Dr. L. T. RIDE, Vice-Chancellor, University of Hong Kong . . . . .	1960-1961
Mr. K. J. MAIDMENT, Vice-Chancellor, University of Auckland . . . . .	1961-1962
Sir DOUGLAS LOGAN, Principal, University of London . . . . .	1962-

## VICE-CHAIRMAN

Mr. HAROLD CLAUGHTON, Principal, University of London . . . . .	1946-1947
Sir RAYMOND PRIESTLEY, Vice-Chancellor and Principal, University of Birmingham . . . . .	1947-1951
Sir PHILIP MORRIS, Vice-Chancellor, University of Bristol . . . . .	1951-1952
	1953-1955
Dr. R. S. AITKEN, Vice-Chancellor and Principal, University of Birmingham . . . . .	1955 (May- Nov.)
	1956-1958
Sir ERIC ASHBY, President and Vice-Chancellor, Queen's University of Belfast . . . . .	1958-1961
Sir DOUGLAS LOGAN, Principal, University of London . . . . .	1961-1962

## HISTORICAL LIST OF OFFICERS

<i>Treasurer</i>	TREASURER/HON. TREASURER	<i>Period of Service</i>
Sir HENRY MIERS . . . . .	. . . . .	1913-1918
Sir E. COOPER PERRY . . . . .	. . . . .	1918-1926
Dr. PETER GILES . . . . .	. . . . .	1926-1929
Dr. EDWIN DELLER . . . . .	. . . . .	1929-1932

<i>Hon. Treasurer</i>						
Sir EDWIN DELLER	.	.	.	.	.	1932-1936
Sir FRANKLIN SIBLY	.	.	.	.	.	1937-1938
Dr. WILLIAM CULLEN	.	.	.	.	.	1938-1948
Sir WILLIAM HAMILTON FYFE	.	.	.	.	.	1948-1954
Sir GEORGE ALLEN	.	.	.	.	.	1954-1961
Professor R. O. BUCHANAN	.	.	.	.	.	1961-

HON. SECRETARY/SECRETARY

<i>Hon. Secretary</i>	HON. SECRETARY/SECRETARY
Dr. ALEX HILL . . . . .	1913-1919

<i>Secretary</i>	
Dr. ALEX HILL . . . . .	1919-1929
Sir FRANK HEATH (continued as Hon. Director of Bureau, 1930-1934) . . . . .	1929-1930
Mr. W. B. BRANDER . . . . .	1930-1947
Dr. J. F. FOSTER . . . . .	1947-

# GUIDE TO THE UNIVERSITY ENTRIES

The date at the beginning of each *Yearbook* university entry is the date at which the material was completely revised and brought up to date by the university for this edition. Resignations, retirements and new appointments which it was known then would take effect before March 1963 were taken account of in the compilation of the staff lists; and, where universities supplied the necessary information, subsequent senior staff changes were also incorporated up to the time of going to press.

**DATE OF FOUNDATION.** The date of foundation is given immediately below the name of the university and is normally the year in which the institution came into legal existence with the title

of university *i.e.* the year the act or charter incorporating it with the title of university came into force. (In the case of colleges which do not have the title of university, read 'college' for 'university' in the previous sentence). If the university had an earlier existence as a university institution, whether corporate or unincorporated, this may also be mentioned.

The **PRINCIPAL DIVISIONS** of each *Yearbook* university entry are: (1) Principal Officers; (2) Teaching Staff; (3) Administrative and Other Staff; (4) Constituent, Affiliated or Associated Institutions; (5) General Information; (6) 'The Year 1961'.

## PRINCIPAL OFFICERS AND TEACHING STAFF

**DEPARTMENTS.** The directory of teaching staff is subdivided into departments (indicated by bold headings) normally arranged in alphabetical order for ease of reference. Because of the divergent practices of different universities about the organization of subjects, it has not been considered advantageous to group these departments under faculty headings, but in special cases where there is a group of departments constituting a more or less distinct entity to which it is obviously helpful to be able to refer in a consecutive and separate entry (*e.g.* a *multi-departmental* school of engineering, of medicine, or of dentistry), they are set out together at the end of the main list, each group under a separate bold-type heading in capital letters, and cross-references to the subject headings in this grouping have been inserted at appropriate places in the main list.

Where the department of physical education is a teaching department, it is placed in the general subject list in alphabetical order, but where its main function is that of promoting the physical welfare of students of the whole university the names of its staff appear under the 'Administrative and Other Staff' heading.

**SPECIAL LECTURESHIPS** (and the names of the current holders thereof) which carry for the holder the status of a temporary member of the staff of the university or college and which involve an extended course of lectures (rather than merely one or two single lectures) are inserted before the list of 'Administrative and Other Staff', as are also entries for the *teaching* officers of such special institutes and departments, etc., as institutes of education, research institutes and extramural departments.

**ORDER AND STATUS.** The names of members of staff are arranged under each subject heading in order of seniority, wherever possible, and not in alphabetical order. Each individual's special subject (*e.g.* inorganic chemistry, civil engineering, modern history) and status (*e.g.* professor, reader, senior lecturer, lecturer) is indicated opposite his name. Where a Chair or other post has a distinctive title, that title is incorporated in the staff list opposite the holder's name (*e.g.* Slade Prof., Laurence Reader, Sidgwick Lectr.).

**PART-TIME** members of staff are indicated by the symbol †.

**EMERITUS PROFESSORS** are not included unless they are still active members of the teaching staff.

**RESEARCH OFFICERS** (including research fellows) are not listed by name unless they are regarded as regular members of staff.

**JUNIOR STAFF.** The most junior staff (such as temporary assistants and junior demonstrators) are not listed by name; such staff are normally covered only by a composite reference, *e.g.* 3 Jr. Demrs.

**MEN'S FIRST NAMES** are designated only by initials (*e.g.* Smith, J. D.) except in the case of knights and baronets or where it is necessary to distinguish between two men with the same initials, and surname, at the same university or college. One first name of a knight or baronet is given in full.

**WOMEN'S NAMES** are indicated by the writing in full of one first name, any other first names being represented by initials only (*e.g.* Smith,



Mary J.). The word 'Mrs.' is inserted before the names of married women, but the word 'Miss' is omitted except where the woman's first name is likely to be unfamiliar as such to English-speaking readers (as in the case of certain Eastern and African names).

**ON LEAVE.** Absence from the university on study leave, on secondment, on government duty, etc., is indicated by '(on leave)'. It is inserted only where the teacher will be on leave during the greater part of the 12 months following March 1961. If, however, the teacher has been seconded to the university from another university or other body, then '(on secondment from [name of institution])' is inserted.

**ABBREVIATIONS.** Lists of abbreviations (and relevant expansions) used for names of universities, for degrees, for university diplomas and certificates, and for certain non-university qualifications appear on pages xv-xxxii.

Each individual's university DEGREES, DIPLOMAS AND CERTIFICATES and any of his non-university qualifications which are mentioned in the next paragraph are noted in abbreviated form after his name. The university of origin of degrees, diplomas and certificates is also given but it should be noted that degrees, diplomas and certificates awarded by the university in whose entry the name of the staff member appears are indicated by being placed, *without* the name of the university\*, after any other degrees, diplomas or certificates. For example, the qualifications of a teacher possessing an MA of Sydney, a PhD of Adelaide and a diploma in education of Adelaide would be set out as follows if his name appeared in the Adelaide entry: MA Syd., PhD DipEd. If his name appeared in the Sydney entry his qualifications would be set out thus: PhD DipEd Adel., MA. The abbreviations for the names of universities

are set in italic type; it should be noted that these abbreviations are not necessarily identical with those usually employed by the awarding universities. To save space, the word 'Hons.' (= Honours) is not placed after degrees in the staff lists, but 'Hon.' (= Honorary) is inserted before honorary degrees. In the case of staff members who possess predoctorate degrees as well as a PhD, universities have been asked to include the higher of these predoctorate degrees as well as the PhD, e.g. BA PhD Camb. or MSc Bom., PhD Calc. or PhD Syd., MA.

**NON-UNIVERSITY QUALIFICATIONS.** The *Yearbook* aims at providing in the staff directories an accurate and comprehensive list of each teacher's university qualifications. Because of the need to save space, however, the number of titles not of university origin has had to be kept to a minimum and, to ensure consistency, it has been decided to list only the following such qualifications:

- (1) *Honours* conferred by the Crown (listed on pages xxx-xxxii).
- (2) *Fellowships* of learned bodies of high standing. Only those listed on pages xxx-xxxii are included in this edition of the *Yearbook*.
- (3) *Memberships* of the senior professional bodies in each country for physicians and for civil, electrical and mechanical engineers (listed on p. xxx). Only one such membership is allowed after any one person's name. Associate memberships are not mentioned.

In setting out titles and qualifications after names the following order is observed:

- (1) Honours conferred by the Crown.
- (2) University degrees, diplomas and certificates.
- (3) Fellowships and memberships of certain institutions (*see above*).

## ADMINISTRATIVE AND OTHER STAFF

This section includes administrative staff who do not appear in the list of 'Principal Officers'. It also includes names such as those of appointments officer, chaplain, instructors in physical education (see also p. xi), university medical

officers, manager or secretary of university press, student advisers (including advisers to overseas students), wardens of student residences, welfare or lodgings officer, and administrative officers of special institutes and departments.

## THE YEAR 1961

The purpose of this section is to provide a detailed record of events in the university during the calendar year ending December 31, 1961 (the period covered by the sections relating to Degrees, Diplomas and Certificates Awarded is, however, the academic year 1960-61 (southern hemisphere, 1961) plus the long vacation following, and the information about student numbers relates to the

beginning of the academic year 1961-62 (southern hemisphere, 1962)).

**PRINCIPAL BENEFACTIONS.** Only gifts of more than £10,000 or equivalent are listed. Government grants are not included. The total monetary value of all benefactions received is frequently given.

\* But where a teacher has a degree with the same abbreviation from two universities, both are named, even though it is in the entry for one of them that his name appears, e.g. the holder of an MA of Cambridge and an MA of Adelaide would be listed in the Adelaide entry as MA Camb. & Adel.

**MAJOR BUILDING DEVELOPMENTS.** This entry records information about buildings completed or approaching completion during the period under review.

**RESIGNATIONS** of staff members of the rank of lecturer (or equivalent) and above are recorded.

**DEATHS** of staff members, or of distinguished staff members who had retired, are recorded.

**STUDENT NUMBERS.** Students are classified as *part-time* if they are engaged in regular employment during the academic year and therefore cannot devote their full time to their studies. If a university has indicated that it has used a different definition a note has been added to the text. By *new admissions* is meant the number of students entering the university or college for the first time. For *Yearbook* purposes a student 'from another country' is one whose permanent

home residence is in that other country, *i.e.* one whose parents are only temporarily resident or employed abroad is not included, nor is one who was born in another country and may therefore have a foreign nationality but is now living permanently in the country in which the university or college is situated.

It should be noted that, although every effort has been made by the editors to secure uniformity, the figures of student numbers given in the individual university entries may possibly be compiled on slightly different statistical bases even in the one country.

The lists of **DEGREES, DIPLOMAS AND CERTIFICATES AWARDED** give the numbers of students who have the right, under the regulations of the university, to use the title of the degree, diploma or certificate regardless of whether or not it has been ceremonially conferred.



# ABBREVIATIONS

A, for names of universities (p. xv)

B, for Commonwealth university degrees (p. xvii)

C, for Commonwealth university diplomas (p. xxviii)

D, for non-university qualifications (p. xxx)

## A. ABBREVIATIONS FOR NAMES OF UNIVERSITIES

Listed below are the expanded forms of the abbreviations used in the *Yearbook* for names of universities placed after degrees, diplomas, certificates, etc. It should be noted that only the universities most frequently mentioned in the staff lists in the *Yearbook* are included and that these abbreviations are not necessarily identical with those employed by the individual universities themselves.

<i>Abbreviation</i>	<i>University</i>	<i>Abbreviation</i>	<i>University</i>
A. Bello	Ahmadu Bello	Col.	Columbia
Aberd.	Aberdeen	Conn.	Connecticut
Acad.	Acadia	Corn.	Cornell
Adel.	Adelaide	C.U.A.	Catholic University of America
Alig.	Aligarh Muslim	Dal.	Dalhousie
Alld.	Allahabad	Dub.	Dublin, Trinity College
Alta.	Alberta	Durh.	Durham
Amst.	Municipal University of Amsterdam	E. Af.	East Africa
And.	Andhra	E. Anglia	East Anglia
Annam.	Annamalai	Edin.	Edinburgh
A.N.U.	Australian National	E.H. Rotterdam	Nederlandse Economische Hogeschool, Rotterdam
Assum.	Assumption	E. Pak. Agric.	East Pakistan Agricultural University
Auck.	Auckland	E. Pak. Eng. & Tech.	East Pakistan University of Engineering and Technology
Ban.	Banaras Hindu	E.T.H. Zürich	Eidgenössische Technische Hochschule, Zürich
Bda.	Baroda (Maharaja Sayajirao University of)	Exe.	Exeter
Belf.	Belfast (Queen's University of)	Flor.	Florida
Berl.	Berlin, Friedrich-Wilhelms-Universität [pre-war]	Fran.	Frankfurt
Birm.	Birmingham	Freib.	Freiburg (Germany)
Bom.	Bombay	Frib.	Fribourg (Switzerland)
Bres.	Breslau	F.U. Berlin	Freie Universität, Berlin
Brist.	Bristol	Gauh.	Gauhati
Br. Col.	British Columbia	Glas.	Glasgow
Bud.	Budapest	Gorak.	Gorakhpur
Calc.	Calcutta	Gött.	Göttingen
Calif.	California	Greg.	Pontifical Gregorian University, Vatican
Cal. Tech.	California Institute of Technology	Gron.	Groningen
Camb.	Cambridge	Gujar.	Gujarat
Cant.	Canterbury (N.Z.)	Harv.	Harvard
Cape	Cape of Good Hope (now incorporated in the University of South Africa)	Heidel.	Heidelberg
Cape T.	Cape Town	H.K.	Hong Kong
Car.	Carleton	Humboldt	Humboldt, Berlin
Carnegie Tech.	Carnegie Institute of Technology	I.I.T. Bombay	Indian Inst. of Technology, Bombay
C.C.N.Y.	City College, New York		
Ceyl.	Ceylon		
Chic.	Chicago		
Cinc.	Cincinnati		

<i>Abbreviation</i>	<i>University</i>	<i>Abbreviation</i>	<i>University</i>
I.I.T. Madras	Indian Inst. of Technology, Madras	N.U.I.	National University of Ireland
Ill.	Illinois	N.Y.	New York (University)
Iowa	State University of Iowa	N.Y. State	New York (State University of)
		N.Z.	New Zealand (now dissolved)
Jab.	Jabalpur	O.F.S.	Orange Free State
Jad.	Jadavpur	Osm.	Osmania
J. & K.	Jammu and Kashmir	Ott.	Ottawa
Johns H.	Johns Hopkins	Oxon.	Oxford
Kanpur	Indian Inst. of Technology, Kanpur	Panj.	Panjab (Lahore, Pakistan)
Karn.	Karnatak	Panj. (I.)	Panjab (Chandigarh, India)
K.C.N.S.	King's College (Nova Scotia)	Penn.	Pennsylvania
Kharagpur	Indian Inst. of Technology, Kharagpur	Pesh.	Peshawar
K.N.U.S.T.	Kwame Nkrumah University of Science and Technology	Pitt.	Pittsburgh
Kuruk.	Kurukshetra	Potchef.	Potchefstroom
Leic.	Leicester	Pret.	Pretoria
Leip.	Leipzig	Prin.	Princeton
Ley.	Leyden	Q'ld.	Queensland (Australia)
Liv.	Liverpool	Qu.	Queen's (Canada)
Lond.	London	Raj.	Rajasthan (formerly Rajputana)
Luck.	Lucknow	Rajsh.	Rajshahi
McG.	McGill	Rand.	Witwatersrand, Johannesburg
McM.	McMaster	R'dg.	Reading
Madr.	Madras	R.M.C.	Royal Military College of Canada
Manc.	Manchester (Victoria University of)	Roch.	Rochester
Manit.	Manitoba	Roor.	Roorkee
Marath.	Marathwada	S.A.	South Africa
Mass.	Massachusetts	St. And.	St. Andrews
Melb.	Melbourne	St. Dun.	St. Dunstan's
Mich.	Michigan	St. F.X.	St. Francis Xavier
Mich. State	Michigan State	St. Jos.	St. Joseph's
Minn.	Minnesota	St. M.	St. Mary's
M.J.T.	Massachusetts Institute of Technology	St. M. Coll.	St. Michael's College, University of Toronto
Montr.	Montreal	Sask.	Saskatchewan
Mt. All.	Mount Allison	Saug.	Saugur
Mt. St. Vin.	Mount St. Vincent (College)	S. Calif.	Southern California
Mün.	Münster	Sheff.	Sheffield
Mys.	Mysore	Sher.	Sherbrooke
Nag.	Nagpur	Sing.	Singapore
Nan.	Nanyang	Sir G. Wms.	Sir George Williams
N.E.	New England	S.N.D.T.	S.N.D. Thackersey Women's University
New Br.	New Brunswick	S'ton.	Southampton
Nfld.	Memorial University of Newfoundland	Stan.	Stanford
Nig.	Nigeria	Stoll.	Stellenbosch
Nott.	Nottingham	Stras.	Strasbourg
N. Staffs.	North Staffordshire, University College of (now Univ. of Keele)	Sus.	Sussex
N.S.T.C.	Nova Scotia Technical College	S. Venkat.	Sri Venkateswara
N.S.W.	New South Wales (formerly N.S.W. Univ. of Technology)	S.V.V.	Sardar Vallabhbhai Vidyapeeth
N.S.W.U.T.	New South Wales University of Technology (now Univ. of N.S.W.)	Syd.	Sydney
		Syr.	Syracuse
		Tas.	Tasmania
		T.H. Aachen,	Technische Hochschule, Aachen, Stuttgart, etc.
		T.H. Berlin	Technische Hochschule, Berlin-Charlottenburg [pre-war]

## COMMONWEALTH DEGREE ABBREVIATIONS

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Abbreviation	University	Abbreviation	University
T.H. Delft	Technische Hogeschool, Delft	Vidyod.	Vidyodaya
Tor.	Toronto	V.U. Amst.	Free University of Amsterdam
Trav.	Travancore (now Kerala)	Wash.	Washington (Seattle)
Trin.	Imperial College of Tropical Agriculture (now part of University of the West Indies)	Wat.	Waterloo
Trin. Coll.	Trinity College, University of Toronto	Wat. Luth.	Waterloo Lutheran
Tor.		W. Aust.	Western Australia
T.U. Berlin	Technische Universität, Berlin-Charlottenburg	Well.	Victoria University of Wellington
U.T.S. (N.Y.)	Union Theological Seminary, New York	W.I.	West Indies
VB.	Visva-Bharati	Wis.	Wisconsin
Vic. Tor.	Victoria (Toronto)	W. Ont.	Western Ontario
Vidyal.	Vidyalankara	W. Pak. Agric.	West Pakistan Agricultural University
		W. Pak. Eng. & Tech.	West Pakistan University of Engineering and Technology
		Zür.	Zürich

## B. COMMONWEALTH DEGREE ABBREVIATIONS

In the following list the degree title opposite each abbreviation is the expanded form normally used by the university, or universities, in the Commonwealth which currently award that degree.

Many of these degrees are awarded with honours (the courses for some honours degrees being quite distinct from the courses for the corresponding pass degrees), but, for reasons of space, the honours form of the abbreviation and title is not given below (e.g. BA *hons.* is excluded). Similarly 'special' and 'general' degrees are not separately distinguished, e.g. BSc(Sp) and BSc(Gen) are excluded. For the purposes of this list, a 'conjoint' degree, such as MB ChB, is listed as two separate degrees.

Honorary degrees are included in the list below, but they are not distinguished from other degrees.

It should be noted that many of the degrees listed below are awarded by only one university and that many others are awarded by only a relatively small number of universities.

ABMS	Ayurvedacharya, Bachelor of Medicine and Surgery
BA	Bachelor of Arts [Bachelier ès Arts : Laval, Montr., Ott., St. Jos., Sher.]
BA(Admin)	Bachelor of Arts in Administration
BA(Arch)	Bachelor of Arts (Architecture)
BAcc	Bachelor of Science in Accounting
BA(Com)	Bachelor of Arts in Commerce
BA(Econ)	Bachelor of Arts (Economics) : Brist. Bachelor of Arts in Economics and Politics : Manc. Bachelor of Arts in Economic Studies : Sheff.
BA(Ed)	Bachelor of Arts (Education)
BA(FA)	Bachelor of Arts (Fine Arts)
BA(Fine)	Bachelor of Arts (Fine)
BA Fine Arts	Bachelor of Arts in Fine Arts
BAG	Bachelor of Agriculture
BAGEc	Bachelor of Agricultural Economics
BAGr	Bachelor of Agriculture
BAGrE	Bachelor of Agricultural Engineering
RAGr(Hort)	Bachelor of Agriculture (Horticulture)
BAGrSc	Bachelor of Agricultural Science
BAGrSc(DairyTech)	Bachelor of Agricultural Science (Dairy Technology)
BAGrSc(Hort)	Bachelor of Agricultural Science (Horticulture)
BAGSc	Bachelor of Agricultural Science
BA(Home Arts)	Bachelor of Arts (Home Arts)
BA in Fine Arts	Bachelor of Arts in Fine Arts
BA in Logopedics	Bachelor of Arts in Logopedics

BA in Public Administration	Bachelor of Arts in Public Administration
BA in SS	Bachelor of Arts in Social Studies
BA in SW	Bachelor of Arts in Social Work
BALatPhil	Bachelor of Arts in Latin Philosophy
BA(Law)	Bachelor of Arts in Law
BAM	Bachelor of Ayurvedic Medicine
BAMS	Bachelor of Ayurvedic Medicine and Surgery
BAM&S	Bachelor of Ayurvedic Medicine and Surgery
BA(Mus)	Bachelor of Arts in Music
BAO	Bachelor of Obstetrics
BA(PE)	Bachelor of Arts in Physical Education
BAppSc	Bachelor of Applied Science
BArch	Bachelor of Architecture
BArch&TP	Bachelor of Architecture and Town Planning
BArp	Bachelor of Surveying [Bachelier en Arpentage] : Laval
BASe	Bachelor of Applied Science
BA(SecCert)	Bachelor of Arts with Secretarial Certificate
BA(SS)	Bachelor of Arts in Social Science
BA(Theol)	Bachelor of Arts in Theology
BA(Theology)	Bachelor of Arts (Theology)
BA(TP)	Bachelor of Arts in Town and Country Planning
BAV	Bachelor of Ayurveda
BBA	Bachelor of Business Administration
BBib1	Bachelor in Library Science [Bachelier en Bibliothéconomie] : Montr.
BBldg	Bachelor of Building Science
BBldSc	Bachelor of Building Science
BBuild	Bachelor of Building
BCE	Bachelor of Civil Engineering
BCh	Bachelor of Surgery
BChD	Bachelor of Dental Surgery
BChE	Bachelor of Chemical Engineering
BChemE	Bachelor of Chemical Engineering
BChemEng	Bachelor of Chemical Engineering
BChemEngg	Bachelor of Chemical Engineering
BChemTech	Bachelor of Chemical Technology
BChir	Bachelor of Surgery
BCL	Bachelor of Civil Law
BCom	Bachelor of Civil Laws : Delhi
BCom(Co-op)	Bachelor of Commerce [Bachelier en Commerce : Sher.]
BCom(EconPol&Sociol)	Bachelor of Commerce (Co-operation)
BCom(Geog)	Bachelor of Commerce (Economics, Politics and Sociology)
BComm	Bachelor of Commerce (Geography)
BComSc	Bachelor of Commerce
BCom(SocStudy)	Bachelor of Commercial Science
BCom with Russian Studies	Bachelor of Commerce (Social Study)
BD	Bachelor of Commerce with Russian Studies
BDC	Bachelor of Divinity
BDS	Bachelor of Theology : Malta
BDSc	Bachelor of Canon Law [Bachelier en Droit canonique] : Ott.
BE	Bachelor of Dental Surgery
BE(AgriEngg)	Bachelor of Dental Science
Bec	Bachelor of Engineering
BEChem	Bachelor of Science in Engineering : Sask.
BE(Chem)	Bachelor of Agricultural Engineering
BE(Civil)	Bachelor of Economics
BEcon	Bachelor of Chemical Engineering
BEcon(IA)	Bachelor of Chemical Engineering
BEcon(PA)	Bachelor of Engineering (Civil)
BED	Bachelor of Economics
BEdN	Bachelor of Economics in Industrial Administration
BEd(PE)	Bachelor of Economics in Public Administration
	Bachelor of Education [Bachelier en Éducation : Ott., St. Jos.]
	Bachelor of Education in Nursing
	Bachelor of Education (Physical Education)

BEdPR	Bachelor of Physical and Recreational Education [Bachelier en Éducation physique et récréative] : Montr.
BEdSc	Bachelor of Educational Science
BEE	Bachelor of Electrical Engineering
BE(Elect)	Bachelor of Engineering (Electrical)
BE(Mech)	Bachelor of Engineering (Mechanical)
BE(Metall)	Bachelor of Engineering (Metallurgy)
BE(Mining)	Bachelor of Engineering (Mining)
BEng	Bachelor of Engineering
BEngSc	Bachelor of Engineering Science
BET	Bachelor in Technical Teaching [Baccalauréat en Enseignement technique] : Sher.
BE(Tele-Com)	Bachelor of Engineering (Tele-Communication)
BFA	Bachelor of Fine Arts
BFoodTech	Bachelor of Food Technology
BFor	Bachelor of Forestry
BForSc	Bachelor of Forestry Science
BHE	Bachelor of Home Economics
BHEc	Bachelor of Household Economics
BHSc	Bachelor of Home Economics : Manit.
BID	Bachelor of Household Science
BIM	Bachelor of Interior Design
BJ	Bachelor of Indian Medicine
BJur	Bachelor of Journalism
BL	Bachelor of Jurisprudence
BLib	Bachelor of Law
BLibSc	Bachelor of Laws : And., Kerala, Madr., Mys.
BLitt	Bachelor of Library Science
BLS	Bachelor in Library Science
BM	Bachelor of Letters
BME	Bachelor of Library Science
BMechE	Bachelor of Medicine
BMedSc	Bachelor of Mining Engineering
BMet	Bachelor of Mechanical Engineering : Jad.
BMetE	Bachelor of Mechanical Engineering
BMus	Bachelor of Medical Science
BN	Bachelor of Metallurgy
BNSc	Bachelor of Metallurgical Engineering
BOL	Bachelor of Music [Bachelier en Musique : Laval, Montr.]
BOptom	Bachelor of Nursing
BOr	Bachelor of Nursing Science
BPE	Bachelor of Oriental Learning
BPed	Bachelor of Optometry
BPéd	Bachelor of Orientation [Bachelier en Orientation] : Laval
BPF	Bachelor of Physical Education
BPh	Bachelor of Pedagogy
BPharm	Bachelor of Education [Bachelier en Pédagogie] : Laval
BPHE	Bachelor of Pedagogy [Bachelier en Pédagogie] : Montr., Sher.
BPhil	Bachelor of Family Pedagogy [Bachelière en Pédagogie familiale] : Montr.
BPh(Psychologie)	Bachelor of Philosophy [Bachelier en Philosophie] : Laval, Montr., Ott.
BPh(ScMédiévales)	Bachelor of Pharmacy [Bachelier en Pharmacie : Laval, Montr.]
BPhy	Bachelor of Physical and Health Education
BP	Bachelor of Philosophy
BRE	Bachelor of Philosophy (psychology) [Bachelier en Philosophie (psychologie)] : Montr.
BRurSc	Bachelor of Philosophy (Mediaeval Studies) [Bachelier en Philosophie (sc. médiévales)] : Montr.
BS	Bachelor of Physiotherapy
BSA	Bachelor in Psychology [Bachelier en Psychologie] : Laval
	Bachelor of Religious Education
	Bachelor of Rural Science
	Bachelor of Surgery
	Bachelor of Science in Agriculture
	Bachelor of Agriculture [Bachelier en Sciences agricoles] : Laval
	Bachelor of Science in Agriculture [Bachelier en Sciences agricoles] : Montr.



BSc	Bachelor of Science [Bachelier ès Sciences : Laval, Montr., Ott., St. Jos., Sher.]
BScA	Bachelor of Applied Sciences [Bachelier ès Sciences appliquées] : Laval Bachelor of Applied Science [Bachelier ès Sciences appliquées] : Montr., Sher.
BScAg	Bachelor of Science in Agriculture
BSc(Ag)	Bachelor of Science (in Agriculture) : Raj. Bachelor of Science in Agriculture
BSc(AgE)	Bachelor of Science (Agriculture) : Madr., Mys.
BScAgr	Bachelor of Science in Agricultural Engineering
BSc(Agr)	Bachelor of Science in Agriculture
BSc(AgrEngineering)	Bachelor of Science (Agriculture) : Bihar, Nag.
BSc(AgrI)	Bachelor of Science in Agricultural Engineering
BScAgric	Bachelor of Science (Agriculture)
BSc(Agric)	Bachelor of Science in Agriculture
BScAgriculture	Bachelor of the Science of Agriculture : Ceyl.
BSc(Agriculture)	Bachelor of Science in Agriculture
BSc(AH)	Bachelor of Science (Agriculture) : Lond.
BScApp	Bachelor of Science (Agriculture)
BSc(Applied)	Bachelor of Science (Animal Husbandry)
BSc(CE)	Bachelor of Applied Science
BSc(ChemEngg)	Bachelor of Applied Science
BScChemEngineering	Bachelor of Science in Civil Engineering
BScChemTech	Bachelor of Science in Chemical Engineering
BSc(ChemTech)	Bachelor of Science in Chemical Engineering
BSc(CivEng)	Bachelor of Science in Chemical Technology
BSc(Civil&Municipal Engg)	Bachelor of Science (Civil Engineering)
BScCom	Bachelor of Science in Civil Engineering : New Br. Bachelor of Science (Civil and Municipal Engineering)
BScComm	Bachelor of Commerce [Bachelier en Sciences commerciales] : Laval Bachelor of Commercial Science [Bachelier ès Sciences commerciales] : Montr.
BScD	Bachelor of Commercial Science [Bachelier ès Sciences commerciales] : St. Jos.
BSc(Dairying)	Bachelor of Science in Dentistry
BSc(DairyTech)	Bachelor of Science in Dairying
BSc(Dent)	Bachelor of Science (Dairy Technology)
BScDom	Bachelor of Science in Dentistry
	Bachelor of Household Science [Bachelier en Sciences domestiques] : Sher.
	Bachelor of Household Sciences [Bachelier en Sciences domestiques] : Laval
BSc(Domesticae)	Bachelor of Science in Domestic Science : Syd.
BSc(DomSc)	Bachelor of Domestic Science
BSc(DomSci)	Bachelor of Science (Domestic Science)
BSc(Econ)	Bachelor of Science (Domestic Science)
BScEdInf	Bachelor of Science in Economics
BSc(EE)	Bachelor of Science (Economics) : Lond. Bachelor of Science in Nursing Education [Bachelière en Sciences de l'Education des infirmières] : Montr.
BSc(ElectEngg)	Bachelor in Science in Electrical Engineering
BSc(EIEd)	Bachelor of Science in Electrical Engineering : Dacca
BScEng	Bachelor of Science (Electrical Engineering)
BSc(Eng)	Bachelor of Science in Elementary Education
BScEng(Agric)	Bachelor of Science in Engineering
BSc(Eng) (Civil)	Bachelor of the Science of Engineering : Ceyl.
BSc(Eng) (Elect)	Bachelor of Science in Engineering
	Bachelor of Science (Engineering) : Kerala, Lond., Patna
	Bachelor of Science in Agricultural Engineering
	Bachelor of Science in Engineering (Civil)
	Bachelor of Science in Engineering (Electrical)

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BSc(Engg)	Bachelor of Science (Engineering)
BSc(Eng) (Geol)	Bachelor of Science in Engineering (Geological)
BSc(Eng) (Mech)	Bachelor of Science in Engineering (Mechanical)
BSc(EngPhys)	Bachelor of Science in Engineering Physics
BSc(Engr)	Bachelor of Science (Engineering)
BSc(EstlMan)	Bachelor of Science (Estate Management)
BScF	Bachelor of the Science of Forestry
BScFam	Bachelor of Science in Forestry : Melb. [St. Jos.]
BScFor	Bachelor of Science in Home Economics [Bachelier ès Sciences Familiales]:
BSc(For)	Bachelor of Science in Forestry
BSc(Forestry)	Bachelor of Science (Forestry)
BSc(FuelTech)	Bachelor of Science in Fuel Technology
BSc(GenSc)	Bachelor of Science in General Science
BSc(H&SS)	Bachelor of Science (Household and Social Science)
BSc(HEc)	Bachelor of Science in Home Economics
	Bachelor in Science with Home Economics : Acad.
	Bachelor of Science in Household Economics : Alta.
BSc(Home)	Bachelor of Science (Home)
BSc(HomeEconomics)	Bachelor of Science (Home Economics)
BSc(HomeScience)	Bachelor of Science (Home Science)
BSc(HomeSciences)	Bachelor of Sciences (Home Sciences)
BSc(Hort)	Bachelor of Science in Horticulture
	Bachelor of Science (Horticulture) : Lond.
BSc(Hortic)	Bachelor of Science in Horticulture
BScHosp	Bachelor of Nursing [Bachelier en Sciences hospitalières] : Laval
BSc(Household Science)	Bachelor of Science (Household Science)
BSc(Hyg)	Bachelor of Science in Hygiene
BSc in Agriculture	Bachelor of Science in Agriculture
BSc in Arts	Bachelor of Science in Arts
BSc(IndChem)	Bachelor of Science (Industrial Chemistry)
BSc in Engineering	Bachelor of Science in Engineering
BScInf	Bachelor of Science in Nursing Education [Baccalauréat ès Sciences-Infirmières] : Montr.
BSc in Home Economics	Bachelor of Science in Home Economics
BSc in Home Science	Bachelor of Science (Home Science)
BSc in Nursing	Bachelor of Science in Nursing
BScLa	Bachelor of Science (Laboratory Assistant)
BSc(ME)	Bachelor of Science in Mechanical Engineering
BSc(MechE)	Bachelor of Science in Mechanical Engineering
BSc(MechEng)	Bachelor of Science in Mechanical Engineering
BScMed	Bachelor of Science in Medicine
BSc(Med)	Bachelor of Science in Medicine
	Bachelor of Science (Medical) : Bom., Syd.
BScMet	Bachelor of Science in Metallurgy
BSc(Met)	Bachelor of Science (Metallurgy)
BSc(Metallurgical Engineering)	Bachelor of Science in Metallurgy
BScMin	Bachelor of Science in Mining
BSc(Min)	Bachelor of Science in Mining
BSc Mining Engineering	Bachelor of Science in Mining Engineering
BSc(MLS)	Bachelor of Science in Medical Laboratory Science
BScN	Bachelor of Science in Nursing
BScNursing	Bachelor of Science in Nursing
	Bachelor of Science (Nursing) : Delhi [Ott.]
BSc(Nutr)	Bachelor of Science (nutrition) [Bachelier ès Sciences (nutrition)]: Montr.,
BSc(Nutrition)	Bachelor of Science (Nutrition)
BScP	Bachelor of Fisheries [Bachelier ès Sciences (pêcheries)]: Laval
BSc(PandOT)	Bachelor of Science in Physical and Occupational Therapy
BSc(Ped)	Bachelor of Science in Physical Education
BSc(Pharm)	Bachelor of Science in Pharmacy
	Bachelor of Science in Pharmaceutical Chemistry : Agra
BSc(Pharmacy)	Bachelor of Science in Pharmacy
BScPhm	Bachelor of Science in Pharmacy
BScPhysEd	Bachelor of Science in Physical Education

BSc(Physiotherapy)	Bachelor of Science in Physiotherapy
BScQS	Bachelor of Science in Quantity Surveying
BSc(QS)	Bachelor of Science in Quantity Surveying
BScRel	Bachelor of Religious Science [Bachelier en Sciences religieuses]: Montr.
BSc(RS)	Bachelor of Science (Rural Science)
BScRT	Bachelor of Science in Radiologic Technology
BSc(SolTech)	Bachelor of Science in Silicate Technology
BScSoc	Bachelor of Social Sciences [Bachelier en Sciences sociales]: Montr.
BSc(Soc)	Bachelor of Science (Sociology): Lond
BSc(SocialSciences)	Bachelor of Social Sciences [Bachelier en Sciences sociales]: Laval
BScSP	Bachelor of Social and Political Sciences [Bachelier ès Sciences sociales et politiques]: Ott.
BScSS	Bachelor of Science in Secretarial Studies
BScSur	Bachelor of Science in Land Surveying
BSc(Surv)	Bachelor of Science in Surveying
BSc(Survey)	Bachelor of Science (Survey)
BScT	Bachelor of Science in Medical Technology [Bachelier ès Sciences en Technologie médicale]: Montr.
BSc(TE)	Bachelor of Science in Textile Engineering
BScTech	Bachelor of Technical Science
BSc(Tech)	Bachelor of Technology
	Bachelor of Science (Technology): Bom., Calc., Nag.
	Bachelor of Science in Technology: Annam., Madr.
	Bachelor of Science (Technical) Glass & Ceramics
BScTech(Glass & Ceramics)	
BSc(Tex)	Bachelor of Science (Textiles)
	Bachelor of Science in Textiles: Panj. (I.)
BSc(Vet)	Bachelor of Science (Veterinary)
BSc(VetSci)	Bachelor of Science (Veterinary Science)
BSc(Vety)	Bachelor of Veterinary Science
BScVetSoc	Bachelor of Social Services [Bachelier en Service social]: Laval
BSF	Bachelor of Science in Forestry
BSHSc	Bachelor of Science in Home Economics
BSLitt	Bachelor of Sacred Letters
BSN	Bachelor of Science in Nursing
BSocSc	Bachelor of Social Science
BSocSc(SW)	Bachelor of Social Science (Social Welfare)
BSocSt	Bachelor of Social Studies
BSP	Bachelor of Science in Pharmacy
BSSc	Bachelor of Sanitary Science
BSurv	Bachelor of Surveying
BSW	Bachelor of Social Work
BT	Bachelor of Teaching
BTech	Bachelor in Technology
BTelE	Bachelor of Telecommunication Engineering
BTExt	Bachelor of Textiles
BTExt(Eng)	Bachelor of Textile Engineering
BTExt(Tech)	Bachelor of Textiles (Technology)
BTh	Bachelor in Theology
	Bachelor of Theology: Alg., St. M., Laval, Montr., Ott., Sher. [Bachelier en Théologie]
BTRP	Bachelor of Town and Regional Planning
BUMS	Bachelor of Unani Medicine and Surgery
BUTS	Bachelor of Unani Tib and Surgery
BVetMed	Bachelor of Veterinary Medicine
BVMS	Bachelor of Veterinary Medicine and Surgery
BVSo	Bachelor of Veterinary Science
BVSc&AH	Bachelor of Veterinary Science and Animal Husbandry
ChB	Bachelor of Surgery
ChemE	Chemical Engineer
ChM	Master of Surgery
CM	Master of Surgery
DAgrSc	Doctor of Agricultural Science
DArch	Doctor of Architecture

## COMMONWEALTH DEGREE ABBREVIATIONS

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DCh	Doctor of Surgery
DCL	Doctor of Civil Law
DCSc	Doctor of Clinical Science
DCLL	Doctor of Canon Law
DComm	Doctor of Commerce
DD	Doctor of Divinity
	Doctor of Theology - Malta
DDC	Doctor of Canon Law [Docteur en Droit canonique] - Ott
DDS	Doctor of Dental Surgery [Docteur en Chirurgie dentaire - Montr]
DDSc	Doctor of Dental Science
DE	Doctor of Engineering
DEcon	Doctor of Economics [Docteur en Économie - Sher.]
DEd	Doctor of Education [Docteur en Éducation - Sher]
DEng	Doctor of Engineering
DEngg	Doctor of Engineering
DhL	Doctor of Letters [Docteur ès Lettres] - Laval, Ott
DHy	Doctor of Hygiene
DJur	Doctor Juris
DL	Doctor of Laws [Docteur en Droit - Sher]
DLett	Doctor of Letters [Docteur en Lettres] - Montr., Sher.
DLit	Doctor of Literature
DLitt	Doctor of Letters
	Doctor of Literature: Calc., Ceyl., Dacca, Luck., McG., Mc All., Osm., Panj. (I), Patna, Raj., Saug., Utkal
DLitt&Phil	Doctor of Literature and Philosophy
DLittS	Doctor of Sacred Letters
DM	Doctor of Medicine
DMD	Doctor of Dental Medicine
DMet	Doctor of Metallurgy
DMiss	Doctor of Massology [Docteur en Massologie] - Ott.
DMus	Doctor of Music [Docteur en Musique - Laval, Montr.]
DMV	Doctor of Veterinary Medicine [Docteur en Médecine vétérinaire] - Montr.
DOL	Doctor of Oriental Learning
DOv	Doctor in Orientation [Docteur en Orientation] - Laval
DPéd	Doctor of Education [Docteur en Pédagogie] - Laval
	Doctor of Pedagogy [Docteur en Pédagogie] - Montr., Sher.
DPh	Doctor of Philosophy [Docteur en Philosophie] - Laval, Montr., Ott
DPharm	Doctor of Pharmacy [Docteur en Pharmacie] - Laval, Montr.
DPhil	Doctor of Philosophy
DPh(Psychologie)	Doctor of Philosophy (psychology) [Docteur en Philosophie (psychologie)] - Montr.
DPh(ScMédiévales)	Doctor of Philosophy (Medieval Studies) [Docteur en Philosophie (sciences médiévales)] - Montr.
DPsSc	Doctor of Psychological Science
DSA	Doctor of Agriculture [Docteur en Sciences agricoles] - Laval
DSc	Doctor of Science [Docteur ès Sciences - Laval, Montr., Ott, Sher]
DScA	Doctor of Sciences [Docteur en Sciences appliquées] - Laval
	Doctor of Applied Science [Docteur en Sciences appliquées] - Montr.
DScAgr	Doctor of Science in Agriculture
DScAgris	Doctor of Science in Agriculture
DScAgrisC	Doctor of Science in Agriculture
DScBusAd	Doctor of Science in Business Administration
DScCom	Doctor of Commerce [Docteur en Sciences commerciales] - Laval
	Doctor of Commercial Science or Doctor of Commerce [Docteur en Sciences commerciales] - Montr.
DSc(Econ)	Doctor of Commercial Science [Docteur en Sciences commerciales] - Sher.
	Doctor of Science (Economics) [Docteur en Sciences économiques - Sher]
	Doctor of Science in Economics - Hull, S'ton
DScEng	Doctor of Science (Engineering)
	Doctor of Science in Engineering - Syd
DSc(Eng)	Doctor of Science (Engineering)
DScFor	Doctor of Science in Forestry
DScMil	Doctor of Military Science
DScPol	Doctor of Political Sciences [Docteur ès Sciences politiques] - Ott.

DSc(PubHealth)	Doctor of Science (Public Health)
DScSoc	Doctor of Social Sciences [Docteur en Sciences sociales] : Laval
DSc(SocialSciences)	Doctor of Social Science [Docteur en Science sociale] : Montr.
DScTech	Doctor of Science in the Social Sciences
DScSe	Doctor of Technical Science
DSW	Doctor of Social Science
DTech	Doctor of Social Work
DTh	Doctor in Technology
DU	Doctor of Theology [Docteur en Théologie] : Laval, Montr., Ott.
DVM	Doctor of University [Docteur de l'Université] : Laval, Sher.
DVM&S	Doctor of Veterinary Medicine
DVSc	Doctor of Veterinary Medicine and Surgery
EdB	Doctor of Veterinary Science
EdD	Bachelor of Education
EE	Doctor of Education
GHMS	Electrical Engineer
IP	Graduate in Homeopathic Medicine and Surgery
LDC	Forest Engineer [Ingénieur forestier] : Laval
LEss	Licentiate in Canon Law [Licencié en Droit canonique] : Ott.
LEsL	Licentiate of Teaching [Licencié en Enseignement] : Sher.
LH	Licentiate of Letters [Licencié ès Lettres] : Laval
LicD	Licentiate of Hygiene [Licencié en Hygiène] : Montr.
LitD	Licentiate in Theology
LitD(Econ)	Doctor of Letters
LLB	Doctor of Literature : Auck.
LLD	Doctor of Letters in Economic Studies
LLet	Bachelor of Laws
LLiL	Bachelor of Law, Camb., Patna, Sind, Laval, Montr. [Bachelor en Droit]
LLM	Doctor of Law
LMus	Doctor of Law Camb. ; Laval, Montr. [Docteur en Droit]
LOr	Licentiate of Letters [Licencié ès Lettres] : Montr.
LPéd	Licentiate of Law [Licencié en Droit] : Laval, Montr., Sher.
LPh	Master of Law Camb., Sind.
LPh(Psychologie)	Licentiate of Music [Licencié en Musique] : Laval, Montr.
LPh(ScMédiévales)	Licentiate or Master of Orientation [Licencié en Orientation] : Laval
LPaPéd	Licentiate or Master of Education [Licencié en Pédagogie] : Laval
LPaSe	Licentiate of Pedagogy [Licencié en Pédagogie] : Montr., Sher.
LSA	Licentiate of Philosophy [Licencié en Philosophie] : Laval, Montr., Ott.
LSO	Licentiate of Philosophy (Psychology) [Licencié en Philosophie (Psychologie)] : Montr.
LSAct	Licentiate of Philosophy (Medieval Studies) [Licencié en Philosophie (sciences médiévales)] : Montr.
LSCom	Licentiate in Psychoeducation of Handicapped Children [Licencié en Psycho-pédagogie de l'enfance inadaptée] : Sher.
LSComp	Licentiate in Psychoeducational Counselling [Licencié en Psychologie Scolaire] : Sher.
LSO	Licentiate of Science in Agriculture [Licencié ès Sciences agricoles] : Montr.
LSO	Licentiate of Sciences [Licencié ès Sciences] : Laval
LSAct	Licentiate of Actuarial Science [Licencié ès Sciences (Actuariat)] : Montr.
LSCom	Licentiate of Commercial Sciences or Master of Commerce [Licencié ès Sciences commerciales] : Montr.
LSComp	Licentiate of Accountancy [Licencié en Sciences comptables] : Montr.
LSO	Licentiate of Optometry [Licencié en Sciences—optométris] : Montr.
LSPol	Licentiate in Political Sciences [Licencié ès Sciences politiques] : Ott.
LST	Licentiate in Sacred Theology [Licencié en Théologie] : Laval, Montr., Ott.
LTh	Licentiate or Master of Theology [Licencié en Théologie] : Laval, Montr., Ott.
MA	Master of Arts [Maître ès Arts] : Laval, Montr., Ott., St. Jos.
MA(AdmHosp)	Master of Arts (Hospital Administration) [Maître ès Arts (administration hospitalière)] : Montr.
MA(Anthropology)	Master of Arts in Anthropology
MA(Arch)	Master of Arts (Architecture)
MAdmn	Master of Administration
MA(Droit)	Master of Arts (Law) [Maître ès Arts (droit)] : Montr.
MA(Econ)	Master of Arts in Economic Studies

## COMMONWEALTH DEGREE ABBREVIATIONS

XXV

MA(Ed)	Master of Arts in Education
MA(FA)	Master of Arts in Fine Arts
MA(Fine)	Master of Arts (Fine)
MA Fine Arts	Master of Arts in Fine Arts
MAg	Master of Agriculture
MAgEc	Master of Agricultural Economics
MAgr	Master of Agriculture
MAgrSc	Master of Agricultural Science
MAgrSc(DairyTech)	Master of Agricultural Science (Dairy Technology)
MAgrSc(Hort)	Master of Agricultural Science (Horticulture)
MAgSc	Master of Agricultural Science
MAH	Master of Hospital Administration [Maître en Administration Hospitalière] : Montr.
MA(Letres)	Master of Arts (Letters) [Maître ès Arts (lettres)] : Montr.
MA(LibSc)	Master of Library Science
MAO	Master of Obstetrics
MA(Orthophonie et Audiologie)	Master of Arts (Orthophonics and Audiology) [Maître ès Arts (orthophonie et audiology)] : Montr.
MA(Ph)	Master of Arts (Philosophy) [Maître ès Arts (philosophie)] : Laval, Ott.
MA(Philosophie)	Master of Arts (Philosophy) [Maître ès Arts (philosophie)] : Montr.
MAppSc	Master of Applied Science
MA(Psychologie)	Master of Arts (Psychology) [Maître ès Arts (psychologie)] : Montr.
MArch	Master of Architecture
MArch(CP)	Master of Architecture (Community Planning)
MA(Religion)	Master of Arts (Religion) [Maître ès Arts (Religion)] : Sher
MA(RuralDevelopment)	Master of Arts in Rural Development
MASc	Master of Applied Science
MA(ScMédiévales)	Master of Arts (Medieval Studies) [Maître ès Arts (sc. médiévales)] : Montr.
MA(SocialWork)	Master of Arts in Social Work
MA(SS)	Master of Arts in Social Science
MB	Bachelor of Medicine
MBA	Master of Business Administration
MBM	Master of Business Management
MCD	Master of Civic Design
MCE	Master of Civil Engineering
MCh	Master of Surgery
MChD	Master of Dental Surgery
MChE	Master of Chemical Engineering
MChir	Master of Surgery
MChOrth	Master of Orthopaedic Surgery
MChOtol	Master of Oto-Rhino-Laryngological Surgery
MCL	Master of Civil Law
MCISc	Master of Clinical Science
MCom	Master of Commerce [Maître en Commerce : Sher]
MComan	Master of Commerce
MD	Doctor of Medicine [Docteur en Médecine : Laval, Montr., Ott.]
	Doctor of Medicine and Surgery : Malta
MDiv	Master of Divinity
MDS	Master of Dental Surgery
MDSc	Master of Dental Science
ME	Master of Engineering
ME(AgrEngg)	Master of Agricultural Engineering
ME(Auto)	Master of Automobile Engineering
MEc	Master of Economics
ME(Chem)	Master of Engineering (Chemical)
ME(Civil)	Master of Engineering (Civil)
MEcon	Master of Economics
MEd	Master of Education
	Master in Education : Hull, Manc.
MEdS	Master of Health Education [Maître en Éducation Sanitaire] : Montr.
MEB	Master of Electrical Engineering
ME(Elec)	Master of Engineering (Electrical)
	Master of Engineering (Electronics)
ME(Elect)	Master of Engineering (Electrical)
ME(Mech)	Master of Engineering (Mechanical)

MEng	Master of Engineering
MEngSc	Master of Engineering Science
MEns	Master of Teaching (Maître en Enseignement) : Sher.
ME(PubHealth)	Master of Engineering (Public Health)
MEI	Master in Technical Teaching (Maître en Enseignement technique) : Sher.
MEt	Metallurgical Engineer
MEt	Master of Forestry
MFO	Master of Gynecology and Obstetrics
MHA	Master of Hospital Administration
MHSc	Master of Home Science
ML	Master of Laws
MLab	Master of Law : Bihar
MLabSc	Master of Library Science
MLet	Master of Library Science
MLS	Master of Letters
MME	Master of Library Science
MMechE	Master of Mining Engineering
MMed	Master of Mechanical Engineering : Jad
MMed(Path)	Master of Mechanical Engineering
MMedSc	Master of Medicine
MMet	Master of Medicine in Pathology
MMetE	Master of Medical Science
MMus	Master of Metallurgy
MO	Master of Metallurgical Engineering
MOG	Master of Music (Maître en Musique : Montr.)
MOL.	Master of Obstetrics
MP	Master of Obstetrics and Gynecology
MPE	Master of Oriental Learning
MPharm	Master of Planning
MPhil	Master of Physical Education
MPlanning	Master of Pharmacy (Maître en Pharmacie : Laval, Montr.)
MPsSc	Master of Philosophy
MRad	Master of Planning
MRI	Master of Psychological Science
MRurSc	Master of Radiology
MS	Master of Industrial Relations (Maître en Relations industrielles) : Montr.
MSA	Master of Rural Science
MSc	Master of Surgery
MScA	Master of Science in Agriculture (Maître en Sciences agricoles : Montr.)
MScAg	Master of Science (Maître en Sciences : Montr.)
MSc(Ag)	Master of Sciences (Maître en Sciences) : Laval, Ott.
MScAgr	Master of Applied Science (Maître en Sciences appliquées) : Montr.
MSc(Agr)	Master of Science in Agriculture
MSc(Agn)	Master of Science in Agriculture
MScAgric	Master of Science in Agriculture
MSc(Agric)	Master of Science in Agriculture
MSc(AH)	Master of the Science of Agriculture : Ceyl.
MScApp	Master of Science in Agriculture
MSc(Appl)	Master of Science (Agriculture) : Lond.
MSc(Applied)	Master of Science (Animal Husbandry)
MSc(Cer)	Master of Applied Science
MScChemTech	Master of Science (Applied)
MSc(ChemTech)	Master of Applied Science
MScCom	Master of Applied Science
MSc(CP)	Master of Science in Ceramics
MScD	Master of Science in Chemical Technology
MSc(DairyTech)	Master of Science in Chemical Technology
MSc(Dent)	Master of Accountancy (Maître en Sciences comptables) : Sher.
	Master of Commerce (Maître en Sciences commerciales) : Laval
	Master of Science (Community Planning)
	Master of Science in Dentistry
	Master of Science (Dairy Technology)
	Master of Science in Dentistry

MSc(Econ)	Master of Science in Economics
MSc(Elec)	Master of Science (Economics) : Lond.
MScEng	Master of Science (Electronics)
MSc(Eng)	Master of Science in Engineering
MSc(Engg)	Master of the Science of Engineering : Ceyl.
MSc(Engg) (Electrical Machine Design)	Master of Science in Engineering
MSc(EstMan)	Master of Science (Engineering) : Lond.
MScF	Master of Science (Engineering) (Electrical Machine Design)
MScFor	Master of Science (Estate Management)
MSc(Glass)	Master of the Science of Forestry
MSc(Home)	Master of Science in Forestry : Melb., New Br
MSc(HomeSc)	Master of Science in Forestry
MSc(HomeSci)	Master of Science (Home Science)
MSc(Hort)	Master of Science (Home Science)
MSc in Arts	Master of Science in Horticulture
MSc(IndChem)Tech	Master of Science in Arts
MScMed	Master of Science in Technology (Industrial Chemistry)
MSc(Médecine et Chirurgie Expérimentales)	Master of Science in Medicine
MSc(Medical)	Master of Science (Experimental Medicine and Surgery) [Maître à Sciences (médecine et chirurgie expérimentales)] : Montr.
MSc(MedSc)	Master of Science (Medical)
MSc(MetEngg)	Master of Science in Medical Science
MSc(Min)	Master of Science (Metallurgical Engineering)
MScN	Master of Science in Mining
MSc(Nutr)	Master of Science in Nursing
MScPhm	Master of Science (nutrition) [Maître à Sciences (nutrition)] : Montr.
MScRel	Master of Science in Pharmacy
MScSoc	Master of Religious Science [Maître en Sciences religieuses] : Montr.
MSc(SocialSciences)	Master of Social Sciences [Maître à Sciences sociales] : Laval
MScSur	Master of Social Science [Maître à Sciences sociales] : Montr.
MScTech	Master of Science in the Social Sciences
MSc(Tech)	Master of Science in Land Surveying
MServSec	Master of Technical Science
MSocSc	Master of Science (Technology)
MSocSc(SW)	Master of Social Service [Maître en Service social] : Laval
MSocSt	Master of Social Science
MS(Ophthal)	Master of Social Science (Social Welfare)
MS(Ortho)	Master of Social Studies
MSP	Master of Surgery (Ophthalmology)
MSS	Master of Orthopaedic Surgery
MSurv	Master of Science in Pharmacy
MSW	Master of Social Work [Maître en Service social] : Montr.
MT	Master of Teaching
MTCP	Master of Town and Country Planning
MTech	Master in Technology
MTelE	Master of Technology : N.S.W.
MText	Master of Telecommunication Engineering
MTh	Master of Textiles
MTP	Master of Theology
MTRP	Master of Town Planning
MusB	Master of Town and Regional Planning
MusBac	Bachelor of Music
MusD	Bachelor of Music
MusDoc	Bachelor in Music : Acad.
MusM	Doctor of Music
MusMas	Doctor of Music
MVetMed	Master of Music
MVS	Master of Veterinary Medicine
	Master of Veterinary Surgery



MVSc	Master of Veterinary Science.
PhD	Doctor of Philosophy [Docteur en Philosophie : Montr., Ott.]
	Doctor in Philosophy : Lav.
PhD(Lettres)	Doctor of Philosophy (Letters) [Docteur en Philosophie (lettres)] : Montr.
PhD(Médecine et Chirurgie Expérimentales)	Doctor of Philosophy (Experimental Medicine and Surgery) [Docteur en Philosophie (médecine et chirurgie expérimentales)] : Montr.
PhD(Philosophie)	Doctor of Philosophy (Philosophy) [Docteur en Philosophie (philosophie)] : Montr. [logie] : Montr.
PhD(Psychologie)	Doctor of Philosophy (Psychology) [Docteur en Philosophie (psychologie)] : Montr.
PhD(ScMédévales)	Doctor of Philosophy (Medieval Studies) [Docteur en Philosophie (sciences médiévales)] : Montr.
PharmB	Bachelor of Pharmacy
ScD	Doctor of Science
STB	Bachelor of Sacred Theology
STM	Master of Theology
ThB	Bachelor of Theology
ThD	Doctor of Theology
ThM	Master of Theology
VetMB	Bachelor of Veterinary Medicine

### C. ABBREVIATIONS FOR COMMONWEALTH UNIVERSITY DIPLOMAS AND CERTIFICATES

The list given below is not intended to include abbreviations for all diplomas, certificates and associateships awarded by Commonwealth universities or colleges of universities. It is restricted to those abbreviated forms which appear most frequently in the Yearbook and which consist entirely, or almost entirely, of initial letters; and whose meaning in many cases may therefore not be immediately obvious to the reader. It should be noted that many of the qualifications listed below are awarded by only one university or college.

AA	Associateship in Arts
AAUQ	Associateship in Accountancy of the University of Queensland
ACom	Associateship in Commerce
AFCE	Associateship in Fuel Technology and Chemical Engineering
AGT	Associateship in Glass Technology
AKC	Associateship of King's College, London
AKC(NB)	Associateship of the University of King's College, Canada
AMinTech	Associateship in Minerals Technology
AOSM	Associateship of the Otago School of Mines
ARCS	Associateship of the Royal College of Science
ARSM	Associateship of the Royal School of Mines
ASc	Associateship in Science
AUA	Associateship of the University of Adelaide
CertTM	Certificate in Medical Technology (Certificat en Technologie médicale)
CHP	Certificate in Public Health (Certificat en Hygiène publique)
CLS	Certificate in Library Science
CPH	Certificate in Public Health
CPSS	Certificate in Public Service Studies
CS	Certificate in Statistics
CT	Teaching Certificate
CTTSC	Certificate in the Teaching and Training of Subnormal Children
DA	Diploma in Anesthetics
	Diploma in Anaesthesia (Syl., Tor.)
DAM	Diploma in Ayurvedic Medicine
DAP&E	Diploma in Applied Parasitology and Entomology
DBM	Diploma in Business Management
DCE	Diploma in Chemical Engineering
DCEP	Diploma of Child and Educational Psychology
DCH	Diploma in Child Health
DCP	Diploma in Clinical Pathology
	Diploma of Clinical Psychology (W. Aust.)
DDM	Diploma in Dermatological Medicine
DDPH	Diploma in Dental Public Health

## COMMONWEALTH UNIV. DIPLOMA ABBREVIATIONS , xxix

DDR	Diploma in Diagnostic Radiology
DEE	Diploma in Electrical Engineering
DFA	Diploma in Foreign Affairs
DFM	Diploma in Forensic Medicine
DGC	Diploma in Guidance and Counselling
DGO	Diploma in Gynaecology and Obstetrics
DHDP	Diploma in Dental Public Health (Diplôme en Hygiène publique dentaire)
DHP	Diploma in Public Health (Diplôme en Hygiène publique)
DHVP	Diploma in Veterinary Public Health (Diplôme en Hygiène publique vétérinaire)
DIA	Diploma in International Affairs
DIC	Diploma of Membership of Imperial College of Science and Technology (London)
DIE	Diploma in Industrial Engineering
DIH	Diploma in Industrial Health
DIM	Diploma in Industrial Management
DipALang	Diploma in Applied Linguistics
DipAM	Diploma in Applied Mechanics
DipAssSc	Diploma in Association Science
DipBMS	Diploma in Basic Medical Sciences
DipCard	Diploma in Cardiology
DipDHus	Diploma in Dairy Husbandry
DipDP	Diploma in Drawing and Painting
DipFA	Diploma in Fine Arts
DipGT	Diploma in Glass Technology
DipHA	Diploma in Hospital Administration
DipHE	Diploma in Highway Engineering
DipHSc	Diploma in Home Science
DipL	Diploma in Languages
DipPA	Diploma in Public Administration
DipMFOS	Diploma in Maxillofacial and Oral Surgery
DipNA&AC	Diploma in Numerical Analysis and Automatic Computing
DipNEd	Diploma in Nursery School Education
DipO&G	Diploma in Obstetrics and Gynaecology
DipOL	Diploma in Oriental Learning
DipOrth	Diploma in Orthodontics
DipP&OT	Diploma in Physiotherapy and Occupational Therapy (Diplôme en Physiothérapie et Occupation Thérapie)
DipPHus	Diploma in Poultry Husbandry
DipQS	Diploma in Quantity Surveying
DipS&PA	Diploma in Social and Public Administration
DipSS	Diploma in Social Studies
DipSW	Diploma in Social Work
DipT	Diploma in Teaching
DipTCT	Diploma in Town and Country Planning
DipTP	Diploma in Town Planning
DipVFM	Diploma in Valuation and Farm Management
DJ	Diploma in Journalism
DLO	Diploma in Laryngology and Otology
DL&O	Diploma in Laryngology and Otology
DLW	Diploma in Labour Welfare
DM&CW	Diploma in Maternity and Child Welfare
DME	Diploma in Mechanical Engineering
DMLT	Diploma in Medical Laboratory Technology
DMP	Diploma in Medical Psychology
DMR	Diploma in Medical Radiology
DMR(D) or (T)	Diploma in Radiology (radiodiagnosis or radiotherapy)
DMRE	Diploma in Medical Radiology and Electricity/Electrology
DMR&E	Diploma in Medical Radiology and Electrology
DN	Diploma in Nutrition
DNE	Diploma in Nursing Education
DNSA	Diploma in Nursing Service Administration
DO	Diploma in Ophthalmology
DOMS	Diploma in Ophthalmic Medicine and Surgery
DOS	Diploma in Orthopaedic Surgery
DOT	Diploma in Occupational Therapy

DP	Diploma in Psychiatry
DPA	Diploma in Public Administration
DPD	Diploma in Public Dentistry
DPH	Diploma in Public Health
DPHN	Diploma in Public Health Nursing
DPM	Diploma in Psychological Medicine
DPSA	Diploma in Public and Social Administration
DRM	Diploma in Resource Management
DSA	Diploma in Social Administration
DTA	Diploma in Tropical Agriculture
DTC	Diploma in Textile Chemistry
DTCD	Diploma in Tuberculosis and Chest Diseases
DTD	Diploma in Tuberculosis/Tuberculous Diseases
DTM	Diploma in Tropical Medicine
DTM&H	Diploma in Tropical Medicine and Hygiene
DTR	Diploma in Therapeutic Radiology
DTRP	Diploma in Town and Regional Planning
DTVM	Diploma in Tropical Veterinary Medicine
DV	Diploma in Venerology
DV&D	Diploma in Venerology and Dermatology
DVPH	Diploma in Veterinary Public Health
DVSM	Diploma in Veterinary State Medicine
FECM	Fellowship of the Elder Conservatorium of Music
IH	Diploma in Public Health Nursing (Diplôme d'Infirmière Hygiéniste)
JD	Diploma in Journalism
LCE	Licentiate in Civil Engineering
LDS	Licentiate in Dental Surgery
LMS	Licentiate in Medicine and Surgery
LP	Legal Procurator
LTh	Licentiate of Theology
LVS	Licentiate in Veterinary Science
SD	Diploma in Statistics
STh	Scholar of Theology
TD	Teaching Diploma
TDD	Diploma in Teaching (S.V.V.)
	Diploma in Tuberculosis/Tuberculous Diseases

#### D. ABBREVIATIONS FOR ORDERS, DECORATIONS AND QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES, DIPLOMAS AND CERTIFICATES

To save space, non-university distinctions are omitted from the staff lists, with the exception of honours conferred by the crown and certain fellowships of learned bodies as set out in this list (see also p. xii). In the case of physicians and civil, electrical and mechanical engineers one membership of the senior professional body as set out in this list may be included. It is regretted that considerations of space have imposed these limitations on the references which can be included to professional qualifications; no disparagement is, of course, intended of professional or other non-academic qualifications which cannot be included in this work.

The abbreviations used are not in all cases those adopted by the body concerned, e.g. FIP is used instead of FinstP.

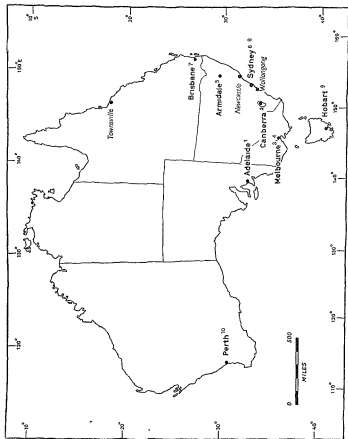
AFC	Air Force Cross
AFM	Air Force Medal
BEM	British Empire Medal
CA	Member of the Institute of Chartered Accountants of Scotland
CB	Companion of the Bath
CBE	Commander Order of British Empire
CD	Canadian Forces Decoration
CGM	Conspicuous Gallantry Medal
CH	Companion of Honour
CI	Imperial Order of the Crown of India
CIE	Companion of the Order of the Indian Empire
CMG	Companion of the Order of St. Michael and St. George
CSI	Companion of the Order of the Star of India

CVO	Commander of the Royal Victorian Order
DBE	Dame of the Order of the British Empire
DCM	Distinguished Conduct Medal
DFC	Distinguished Flying Cross
DFM	Distinguished Flying Medal
DBC	Distinguished Service Cross
DSM	Distinguished Service Medal
DSO	Companion of the Distinguished Service Order
ED	Efficiency Decoration
ERD	Emergency Reserve Decoration
FAA	Fellow of the Australian Academy of Science
FAAAS	Fellow of the American Association for the Advancement of Science
FAADS	Fellow of the American Academy of Orthopaedic Surgeons
FACD	Fellow of the American College of Dentists
FACP	Fellow of the American College of Physicians
FACS	Fellow of the American College of Surgeons
FAIA	Fellow of the American Institute of Architects
FAPS	Fellow of the American Physical Society
FASA	Fellow of the Australian Society of Accountants
FBA	Fellow of the British Academy
FBPaS	Fellow of the British Psychological Society
FCA	Fellow of the Institute of Chartered Accountants in England and Wales
FCAA	Fellow of the Australian Institute of Cost Accountants
FCA(Aust)	Fellow of the Institute of Chartered Accountants in Australia
FCIC	Fellow of the Canadian Institute of Chemistry
FCIS	Fellow of the Chartered Institute of Secretaries
FDSRCS	Fellow in Dental Surgery of the Royal College of Surgeons of England
FDSRCS(Ed)	Fellow in Dental Surgery of the Royal College of Surgeons of Edinburgh
FFA	Fellow of the Faculty of Actuaries
FFARCS	Fellow of the Faculty of Anaesthetists of the Royal College of Surgeons of England
FFR	Fellow of the Faculty of Radiologists
FGS	Fellow of the Geological Society
FGSA	Fellow of the Geological Society of America
FIA	Fellow of the Institute of Actuaries
FIANZ	Fellow of the Institute of Actuaries of New Zealand
FIM	Fellow of the Institute of Metallurgists
FIP	Fellow of the Institute of Physics
FLA	Fellow of the Library Association
FLS	Fellow of the Linnean Society
FNI	Fellow of the National Institute of Sciences (India)
FNZIA	Fellow of the New Zealand Institute of Architects
FNZIC	Fellow of the New Zealand Institute of Chemistry
FPANZ	Fellow, Public Accountant, New Zealand
FPAS	Fellow of the Pakistan Academy of Sciences
FRACI	Fellow of the Royal Australian Chemical Institute
FRACP	Fellow of the Royal Australasian College of Physicians
FRACS	Fellow of the Royal Australasian College of Surgeons
FRaCS	Fellow of the Royal Aeronautical Society
FRAI	Fellow of the Royal Anthropological Institute
FRAlA	Fellow of the Royal Australian Institute of Architects
FRAM	Fellow of the Royal Academy of Music
FRANZ	Fellow, Registered Accountant, New Zealand
FRCM	Fellow of the Royal College of Music
FRCO	Fellow of the Royal College of Organists
FRCOG	Fellow of the Royal College of Obstetricians and Gynaecologists
FRCP	Fellow of the Royal College of Physicians of London
FRCPCan	Fellow of the Royal College of Physicians of Canada
FRCP(Ed)	Fellow of the Royal College of Physicians of Edinburgh
FRCP(I)	Fellow of the Royal College of Physicians of Ireland
FRCS	Fellow of the Royal College of Surgeons of England
FRCSCan	Fellow of the Royal College of Surgeons of Canada
FRCS(Ed)	Fellow of the Royal College of Surgeons of Edinburgh
FRCSI	Fellow of the Royal College of Surgeons in Ireland
FRCVS	Fellow of the Royal College of Veterinary Surgeons

FRTPSGlas	Fellow of the Royal Faculty of Physicians and Surgeons of Glasgow
FRHistS	Fellow of the Royal Historical Society
FRIAI	Fellow of the Royal Institute of Architects of Ireland
FRIAS	Fellow of the Royal Institute of Architects of Scotland
FRIBA	Fellow of the Royal Institute of British Architects
FRIC	Fellow of the Royal Institute of Chemistry
FRMetS	Fellow of the Royal Meteorological Society
FRS	Fellow of the Royal Society
FRSCan	Fellow of the Royal Society of Canada
FRSL	Fellow of the Royal Society of Literature
FRSNZ	Fellow of the Royal Society of New Zealand
FRSSAf	Fellow of the Royal Society of South Africa
FSA	Fellow of the Society of Antiquaries
FSAA	Fellow of the Society of Incorporated Accountants and Auditors
FSALA	Fellow of the South African Library Association
FTCL	Fellow of Trinity College of Music, London
FTI	Fellow of the Textile Institute
GBE	Knight or Dame Grand Cross Order of the British Empire
GC	George Cross
GCB	Knight Grand Cross of the Bath
GCI	Knight Grand Commander of the Indian Empire
GCMG	Knight Grand Cross of St. Michael and St. George
GCSI	Knight Grand Commander of the Star of India
GCVO	Knight or Dame Grand Cross of the Royal Victorian Order
GM	George Medal
GMEE	Grand Master Order of the British Empire
ISO	Imperial Service Order
JP	Justice of the Peace
KBE	Knight Commander Order of the British Empire
KCB	Knight Commander of the Bath
KCIE	Knight Commander of the Indian Empire
KCMG	Knight Commander of St. Michael and St. George
KCSI	Knight Commander of the Star of India
KCVO	Knight Commander of the Royal Victorian Order
KG	Knight of the Order of the Garter
KP	Knight of the Order of St. Patrick
KT	Knight of the Order of the Thistle
MBE	Member of the Order of the British Empire
MC	Military Cross
MEIC	Member of the Engineering Institute of Canada
MICE	Member of the Institution of Civil Engineers
MIEAust	Member of the Institution of Engineers of Australia
MIEE	Member of the Institution of Electrical Engineers
MIE(India)	Member of the Institute of Engineers, India
MIMechE	Member of the Institution of Mechanical Engineers
MM	Military Medal
MINZIE	Member of the New Zealand Institution of Engineers
MRACP	Member of the Royal Australasian College of Physicians
MRCF	Member of the Royal College of Physicians of London
MRCPEd	Member of the Royal College of Physicians of Edinburgh
MRCPI	Member of the Royal College of Physicians of Ireland
M(SA)ICE	Member of the South African Institution of Civil Engineers
M(SA)IEE	Member of the South African Institute of Electrical Engineers
M(SA)IME	Member of the South African Institution of Mechanical Engineers
MVO	Member Royal Victorian Order
OBE	Officer Order of the British Empire
OM	Order of Merit
QC	Queen's Counsel
RD	Royal Naval Reserve Decoration
RRC	Royal Red Cross
TD	Territorial Decoration
VA	Royal Order of Victoria and Albert
VC	Victoria Cross
VD	Volunteer Officers' Decoration
VRD	Royal Naval Volunteer Reserve Decoration

# AUSTRALIA

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*The places named in black type are the seats of the maternity institutions numbered one-leaf*

# THE UNIVERSITIES OF AUSTRALIA

[Contributed by Professor C. Sanders, Professor of Education in the University of Western Australia]

**HISTORY.** The history of the Australian universities may, for convenience, be divided into five periods covering a span of over a century. The first period, which extended from the middle to the end of the nineteenth century, saw the growth towards nationhood of the Australian colonies. During this period four universities were established, and their earliest architecture in the Gothic style bears witness to their Victorian origins. The second period began with the federation of the colonies as Australian states, and the creation of the Commonwealth of Australia in 1901. It continued until the conclusion of the first world war when there were six universities in the state capital cities, the first three—Sydney (New South Wales), Melbourne (Victoria) and Adelaide (South Australia)—carrying the names of the cities themselves, and the second three—Tasmania (Hobart), Queensland (Brisbane) and Western Australia (Perth)—the names of the states in which they were established. The third period lasted from 1918 until the conclusion of the second world war. During its first seven years there was a post-war enrolment bulge followed by a sharp resettlement, after which the depression of the thirties limited development. Two university colleges, Canberra University College (1930) and New England University College, Armidale, New South Wales (1938), were established during the period.

In the main, the years between the wars were years of consolidation rather than of spectacular progress. Student enrolments in the universities and university colleges during 1939 numbered 14,500. This was a modest total; but Australia, in keeping with the university traditions of Great Britain, does not recognize many educational institutions as having university status in the American sense. However, some such institutions, as is explained later, are affiliated for various purposes to the universities.

The cessation of hostilities in 1945 marked the beginning of the fourth period of university growth and the admission to the universities of large numbers of financially assisted ex-service students. The period was associated with heavy enrolments in science, applied science and technology. By 1948, student numbers rose to 32,500, and although an easing occurred with the disappearance of assisted ex-service students, two or three years later, an increasing war-time and post-war birth-rate, migration on a larger scale than hitherto, and a constant need for scientists, technologists and teachers, heralded in the present and fifth period, in which there appears to be no limit to the possible future expansion of higher education in Australia.

Increasing financial difficulties among the universities, during the fourth period, gave rise in

1950 to an interim enquiry into Australian university finances, and then in 1957 to the enquiry conducted by the Committee on Australian Universities under the chairmanship of Sir Keith Murray, chairman of the U.K. University Grants Committee.

The fifth period began, when early in 1958 the Commonwealth government announced, after considering the Murray committee's report, that it would provide an extra £A21,400,000 during the triennium 1958-60. The provision of additional money was a first step towards university rehabilitation, and it was followed by a further decision during 1958 to create a permanent national body, to be concerned, amongst other things, with university finance. This body, in accordance with Commonwealth legislation passed in 1959, is now called 'The Australian Universities Commission' and its present chairman is Sir Leslie Martin, formerly of Melbourne.

Sydney (1850) and Melbourne (1853) are the most senior of the Australian universities. As institutions of higher learning dating from the colonial period, they are of approximately equal size and are also about the oldest of their kind in the Asian-Australasian hemisphere. The remaining universities established before the first world war include Adelaide (1874), which began with private endowments, Tasmania (1890), Queensland (1909) and Western Australia (1911). To these now need to be added the Australian National University, Canberra (1946), now incorporating the earlier Canberra University College, the University of New England (1954), which began as the second of the inter-war university colleges, the University of New South Wales, Sydney (1958), originally established in 1949 as the New South Wales University of Technology, and Monash University (1958) at Clayton, near Melbourne in Victoria, which began teaching in 1961. At the time of writing, therefore, there are ten universities in Australia, including three in New South Wales and two in Victoria (see also 'The Universities To-day', below).

Canberra University College was a Commonwealth creation in the Australian Capital Territory to provide for the higher education of civil servants and their families when the Commonwealth parliament moved from Melbourne to the national capital in 1927. This college in 1960 became the school of general studies (with faculties of arts, economics, law and science) of the Australian National University. New England University College in northern New South Wales was, until its elevation, an offshoot of the University of Sydney, and it is still the only non-metropolitan university in Australia.

Nevertheless, there is now a further trend



towards decentralization of university education in both New South Wales and Queensland. For example, Newcastle University College (1951) and Wollongong University College (1961) function as constituent institutions of the University of New South Wales, while the University College of Townsville (1961), is a constituent institution of the University of Queensland.

**CONSTITUTION** (a) *Structure of Universities.* The Australian universities are unitary teaching, examining and research institutions in the arts, social sciences, sciences and applied sciences; and among them to-day, at the undergraduate level, there is considerable emphasis on education for the professions. Most of the universities have residential colleges or halls, associated with them, in which tutorial assistance is provided for resident students, and sometimes for other students. Such teaching, however, is generally supplementary to the teaching of the universities which conduct the examinations and award the degrees. Historically, the universities are secular institutions although many of the residential colleges (located on the university sites) are religious foundations. Each university has certain characteristics which give it individuality. Some more than others have affiliations with governmental research institutes, agricultural colleges, forestry schools, technological institutions, technical colleges and teachers' colleges (see section below on 'Institutions of Higher Education other than Universities').

Among universities created since the second world war, more significant differences are to be observed than among universities of earlier establishment. The Australian National University, which began as a postgraduate research institution, was reorganized in 1960 on more conventional lines when the Canberra University College became its school of general studies. The original university, which incorporated four postgraduate schools, was renamed the institute of advanced studies. At this level the university is substantially residential. Further, the University of New England, which for internal students is almost entirely residential, now makes provision for a large number of external students. Moreover, the teaching work of the universities of New South Wales and Queensland, as explained already, is undertaken not only on their own sites but also elsewhere.

Since the war all the universities have greatly extended their departments of science, medicine, engineering and social science. Newer institutions have very strongly reflected the trend towards science and technology, while postgraduate studies and research now receive a much greater emphasis than formerly.

(b) *Internal Government.* Except for the Australian National University in the Australian Capital Territory, the universities are situated in the six Australian states, and in or near the Australian capital cities. Although it is now becoming a practice to refer to these mainly 'metropolitan' institutions as 'state' universities,

they have a considerable measure of independence, and their staffs are conscious of the importance of university autonomy and academic freedom (see 'Relationships to Government', below).

Some differences in the legislative and academic practices of the 'state' universities arise from their geographical separation as well as from their history. Most of them were created to serve local needs and Commonwealth interest in their welfare is of fairly recent origin. Even to-day they are regional institutions, and most Australian students expect to receive their undergraduate education within the boundaries of their own states.

Periodic royal commissions, or committees of enquiry, and the subsequent or independent actions of legislatures, both state and national, have altered from time to time the constitutions of the universities as well as the composition of their governing bodies. Each governing body in its own way is representative of community interests, and most governing bodies are also representative of the body of graduates and the academic staff. The Australian National University, since its reconstitution in 1960, has an academic board responsible for the institute of advanced studies and a board responsible for the school of general studies. There is in addition a professional board, which, although it has no executive powers, acts in an advisory capacity to the governing body of the university. The vice-chancellor serves as chairman of each of the academic bodies.

Among the universities some appointments to governing bodies are made by governors-in-council, and on a number of the governing bodies there are parliamentary members, or ex-officio members, such as a state director of education or an appointee of a state treasury, or co-opted members. In some universities the students are represented on the governing body, while at Melbourne and at the University of New South Wales, industry and commerce have specific representation. Among the universities the size of the governing bodies varies between nineteen and thirty-eight.

Except for Sydney, Queensland and Western Australia, the governing body of each university is called the council. At the three universities mentioned the term 'senate' is employed to denote the governing body.

Each Australian university, with the exception of the University of New South Wales and Monash University, has a second body with a certain amount of responsibility in university government. This body, which mainly consists of university graduates, has several names. At most of the universities it is called convocation; but at Queensland it is called the council, and at Adelaide the senate.

The major function of the graduate body is to elect members to the governing body; but only at the University of Adelaide does the graduate body have a preponderance of representation. In other universities it provides about one-fifth to two-fifths of the membership. Although in none of the universities has the graduate body

power to initiate legislation, it occasionally has authority to approve, refer back or delay statutes and similar legislation referred to it by the governing body, and it may make suggestions regarding university welfare. In exercising its functions it sometimes works through standing committees.

The governing body, whether council or senate, generally meets at least once a month. It appoints standing committees or committees to deal with finance, investments, buildings, site development, staff and establishments, and so forth. Some of its work may be channelled through a general purposes committee, or there may be a joint committee of governing body and teaching staff to deal with matters of common policy. The powers, functions and procedures of governing bodies and graduate bodies are generally defined in university acts and statutes. When a governing body adopts statutes or by-laws, they must, as a rule, be submitted for final approval to a minister, governor or governor-in-council, or the particular legislation must be laid on the table of each house of parliament. Although the universities are not divorced from public criticism, most governing bodies have power without further reference to establish rules and regulations for ordinary university working.

The titular head of an Australian university is the chancellor, usually a citizen of distinction, who acts as chairman of the governing body and confers degrees and diplomas. He is supported by a deputy or pro-chancellor.

The vice-chancellor is central to the organisation of university government. He provides the liaison between the various deliberative and executive bodies, both general and academic, although his powers and functions vary somewhat from university to university. The vice-chancellor holds a permanent appointment as chief executive officer of the university, and is a member of the governing body. At most of the universities the chairman of the chief academic body or a senior professor acts in the absence of the vice-chancellor. Some universities have created the position of deputy or pro-vice-chancellor. Among these universities, Melbourne has two pro-vice-chancellors who are senior members of the academic staff, while at Sydney, where the vice-chancellor is also the principal of the university, there is a deputy vice-chancellor as well as an assistant principal. Below the rank of vice-chancellor, deputy vice-chancellor, principal, etc., the registrar is the senior administrative officer, although the chief financial officer exercises a considerable amount of authority. At each of the older universities the state governor acts as 'visitor'.

The chief academic body is generally called the professional board and corresponds to some extent with the senate of a university in the United Kingdom. It consists of deans, professors and certain other staff, some of whom may be non-professional heads of departments, or staff representatives below professional rank. The board usually appoints its own chairman and it may work through committees such as a committee of deans. At the Australian National University, as

mentioned previously, the vice-chancellor acts as chairman of the academic boards, and in some other universities is empowered to act as chairman of the professional board. Instead of a professional board, Adelaide has an education committee, including chancellor, vice-chancellor, council members, heads of academic departments and the librarian.

University government usually works from below upwards, the chief academic body advising the governing body on academic matters or transmitting legislation for the governing body's imprimatur or further action. Below the senior academic body are the faculties in which degrees are awarded, or the boards of study responsible for diploma or similar courses. Many matters remain at faculty level and most of the rest are finally dealt with by the professional board or its equivalent. The deanship is an honorary academic office in most universities; but sometimes the dean receives an allowance. At Melbourne there is a permanent dean of graduate studies.

**RELATIONSHIP TO GOVERNMENT** The Australian universities, by legislative enactment or charter, are autonomous and self-governing, and as most of the earlier ones were created by colonial or state governments, they were, until 1958, mainly financed by state parliaments. The Commonwealth is directly responsible only for the Australian National University. However, the second world war made clear the national as well as the local importance of the state universities, and as already indicated, this led during the post-war period to an increasing Commonwealth interest and financial support, culminating in the Murray recommendations in 1957 and the creation of the Australian Universities Commission in 1959. Thus, at the present time, the universities are a Commonwealth as well as a state responsibility, the commission providing the link between the various parties.

Most university governing bodies, as explained above, contain members of the local parliament or appointees of the governor-in-council. One reason for having parliamentarians (usually not drawn from one house or party) is to have spokesmen in the legislatures. Mostly the idea has worked well and it has tended to be incorporated in the constitutions of universities of recent creation.

Communication between a university governing body and a state government is usually by way of vice-chancellor and state premier or state minister of education. However, the work of universities generally lies outside the function of the minister of education, who is more directly responsible for the schools. Occasionally the chancellor will lead a deputation to the premier on an important issue. Each year the universities present a report on their activities to the local parliament. The first report of the Australian Universities Commission was presented to the Commonwealth government in 1960.

After the war the Commonwealth provided

special grants to the universities to assist in the higher education of ex-servicemen. It also made increasing sums of money available for research. It converted a war-time assistance scheme for reserved students into a broadly based system of scholarships, and it began to sponsor students from Asia and the Pacific islands under the Colombo Plan. This increase in Commonwealth activity, now supported by the Murray recommendations, and the existence of the Australian Universities Commission, has greatly added to the importance of the Australian Vice-Chancellors' Committee at the national level, even though the committee's function is consultative rather than executive. To-day the National Union of Australian University Students (N.U.A.U.S.) concerns itself with national as well as international issues affecting students. Thus it may be referred to by the appropriate authorities, or it may submit its own proposals for consideration. Within each university there is a student body which negotiates with university and other authorities on matters affecting student interests.

**FINANCE** In the early post-war years the time-honoured method of university finance by state government grants, student fees and income from endowments began to collapse. During the war the Commonwealth gained control of income tax collection which previously had been shared with the states. After the war considerable numbers of ex-service students were admitted to the universities, and to assist their education the Commonwealth made special annual grants towards university running costs, and by agreement with the states it made capital grants for buildings. However, with the tapering off of Commonwealth monies for ex-service students, most of the universities began to feel the effects of financial stringency. As a result, the Commonwealth, after negotiations with the states, appointed in 1950 the interim committee of enquiry into university finance, referred to earlier. This action represented a positive step towards a permanent co-operative relationship between Commonwealth and states in the maintenance and development of the universities.

After considering the interim committee's findings, the Commonwealth enacted legislation to make grants to the universities on the basis of £A1 for each £A3 of state grant and fees to a specified maximum. In 1951 the States Grants (Universities) Act was passed, and subsequent acts were passed in 1953, and annually from 1955 to 1958. With the enactment of the 1951 legislation, previous Commonwealth grants and subsidies for various purposes, including grants for research, were consolidated into a single amount to be paid to each university through its state government. However, following receipt of the Murray committee's report in 1957, the Commonwealth enacted new legislation in 1958 and 1959 so that there is now a triennial review of university finance undertaken by the Australian Universities Commission. As indicated previously,

the initial triennial grant was made on the recommendation of the Murray committee, and a considerable part of it was regarded as emergency money to compensate for existing deficiencies. The first report of the Australian Universities Commission was published in October 1960. It surveyed developments during the period 1958-60 and made recommendations for the triennium 1961-63. The financial recommendations of the commission were given effect in the States Grants (Universities) Act (1960) of the Commonwealth government.

In 1960, total university income from all sources (i.e. revenue and capital income for 'general' and 'special' purposes), amounted to £A31,376,791. The revenue income for 'special' purposes, included in the total sum, was £A4,005,292. The capital income ('general' and 'special'), for buildings and equipment, amounted to £A7,483,540 (Commonwealth, 43 per cent.; states, 50 per cent.; other, 7 per cent.).

Income from endowments and donations, included in the total university income, was £A1,726,494, or about 6 per cent. of the whole. But of the amount received from endowments and donations, £A1,308,891 was for 'special' purposes. Revenue and capital income for research, during the year, totalled £A1,898,633.

If 'general' revenue, for ordinary university running expenses only, is taken into account (i.e. when all capital income, as well as revenue income for 'special' purposes, is excluded), then the total amount available to the universities during 1960 was £A10,887,959 (Commonwealth, 34 per cent.; states, 46 per cent.; fees, 15 per cent.; other, 5 per cent.).

In 1960, Commonwealth and state governments provided 79 per cent. of the money needed to meet the day-to-day expenses of the universities, and they also provided 93 per cent. of the money for buildings and large capital equipment.

**PRE-UNIVERSITY EDUCATION** (see also Appendix III). Students are usually admitted to the Australian universities between the ages of 17½ and 18½ years after twelve years of schooling although there is a trend in some states towards increasing the length of secondary education by a year. In some states children transfer to secondary education between the ages of 12 and 14 years after spending seven years in primary schools. Thus the children in these states usually receive five years of secondary education before being admitted to the universities. In Victoria the transfer is made a year earlier and in Queensland a year later so that children in these states receive six years or four years respectively of secondary education before entering the university. However, the pattern, organisation and content of secondary education are being re-examined in most Australian states; and a rapidly increasing proportion of children is continuing at school between the ages of 15 and 17 years inclusive. In New South Wales, following the government's receipt of a report, prepared by a committee under

the chairmanship of the director-general of education, Dr H. S. Wyndham, there are now six years of primary education followed by six years of secondary education, with transfer of children at about the age of 12 years.

In all states the examinations, often called 'public examinations', which mainly qualify for matriculation are held in November or December, while students tend to enter the universities in the following March. In Western Australia, matriculation is mostly granted by means of a leaving certificate examination at the age of 17 to 18 years. An examination, used for matriculation, is set at the same level in Queensland and is called the senior public examination, while in Victoria and Tasmania the comparable examination is known as the matriculation examination. In New South Wales a school certificate examination is now held after four years of secondary education, followed by a higher school certificate examination two years later and linked with matriculation. In South Australia matriculation is gained at a leaving certificate examination set to school pupils between the ages of 16 and 17 years, but there is at least one further year of study beyond the minimum matriculation level, and many intending university students take the additional year and set for a leaving honours examination at the end of it. Victoria has a leaving examination for school pupils between 16 and 17 years, and Tasmania a similar examination called schools board examination. In Victoria and Tasmania, therefore, the examinations mentioned are taken a year before the matriculation examination.

In all states except New South Wales the universities either conduct the public examinations or co-operate in their organization. In New South Wales the state department of education undertakes the responsibility. Some universities conduct a supplementary leaving or matriculation examination in February each year; but in each case where a 'matriculation examination' is set it is directly under a university matriculation board or the university's professional board. In several states there still exists an examination between the ages of 15 years and 16 years. This is called either the junior examination or the intermediate examination, and sometimes passes in the examination exempt from certain matriculation requirements. In Queensland the junior examination is conducted by the state education department, while the university remains responsible for the senior public examination on which matriculation is based.

In the organization of Australian secondary education there are many independent secondary schools modelled on the pattern of the English grammar schools. Most of these schools are religious foundations. In the state educational systems, most secondary schools, although by no means all, are called high schools. Many of the older state secondary schools are of the academic type but newer schools are being erected on the comprehensive principle adapted to Australian conditions. For many years more students entered

the universities from independent (i.e. non-government) schools than from state (i.e. government) schools, and although this continues to be so in some states, the balance is changing, due to the rapid post-war growth of secondary education in every Australian state.

**Admission** (see also Appendix III). Each university decides its own matriculation requirements, and though there is no general standard for Australia, the universities recognize each other's qualifications. However, where faculty prerequisites apply, or where entry is restricted, a matriculated candidate from another state usually needs to comply with the local conditions.

The universities of Adelaide, New England, New South Wales, Sydney, Tasmania and Western Australia, as well as the Australian National University and Monash University, have a general matriculation with minimum or no faculty prerequisites. The University of New South Wales recognizes in addition the qualifying examination of the department of technical education of the state of New South Wales. Universities, other than those mentioned, have prerequisites for entry to faculties. For admission to the University of Melbourne a student must pass the leaving examination to set for the university's matriculation examination, and he must also meet prerequisites. To-day, however, at the universities of Sydney and Melbourne, faculty entry is on a competitive basis.

Some universities have subgraduate diplomas or certificate courses to which admission may be gained on qualifications less than matriculation. Most universities have some provision for unmatriculated students not proceeding to a degree; but there are restrictions on this form of enrolment. All universities make provision for students of mature age, and various tests of fitness are used in mature age examinations, including tests of general ability as well as of English usage.

A student with United Kingdom matriculation is generally admitted to matriculant status without further examination unless he has prerequisites to meet or there is a faculty entry restriction. Ordinary G.C.E. passes and Scottish leaving lower passes are insufficient, so that all or some of local requirements must generally be met. Students from Asia with principal level passes in the Cambridge Higher School Certificate examination, or an equivalent qualification, have a reasonable chance of acceptance into unrestricted courses provided they meet any special conditions including an adequate command of English. However, most universities treat applications individually. Thus, although Sydney and Melbourne specify the qualifications from abroad they are prepared to accept for matriculation, they employ, as indicated above, additional selection measures. Because mastery of the English language is a factor in student success, some universities prefer an Asian or similar student to spend a period in an Australian school or technical college and, if possible, gain a local matriculation before university

entrance. Graduates of recognized universities are usually accorded matriculation status and such additional status as each university is prepared to grant.

There is a summary of admission requirements in Appendix III, but students from abroad must always obtain direct from the registrar of the university concerned up-to-date information about the precise conditions of entry to first degree or postgraduate courses.

To-day most universities insist that students shall have a clean bill of health to gain admission. Apart from Sydney and Melbourne, there is a restricted entry to certain faculties and courses in other universities. This is particularly true in medicine. Restriction in medical and other faculties, giving rise to selection following matriculation, is due mainly to insufficient facilities to meet a rapidly increasing number of qualified applicants. In some cases intending medical students, as well as students wishing to enter other faculties, need to qualify for matriculation in the state in which the university is placed. To continue in a course, and especially a course with restricted enrolment, students, whether Australian or other, may need to show a satisfactory rate of progress.

Admission to postgraduate diplomas demands graduation from a recognized university and often passes in an undergraduate course relevant to the diploma course. The admission of overseas students to higher degrees is decided by each faculty and university. To proceed to the degree of master in faculties of arts or science, a bachelor degree with honours is normally needed. Graduates with a lesser qualification must undertake additional study and pass an examination at honours standard before being permitted to present a thesis. The PhD degree is awarded in a number of departments and faculties in the Australian universities (see 'Directory to Subjects of Study', below). For admission to the course for the PhD degree, students need to be graduates of senior standing with first or second class honours, and preferably with a master's degree or some research experience if their honours work has not involved research. Most universities have a special committee or board of studies to decide applications. Reference to the higher doctorates (LittD, LL.D, DSc, etc.) is made in the next section.

#### STRUCTURE OF DEGREE AND DIPLOMA COURSES

The pattern of Australian degree courses has been influenced more by the pattern of degree courses in England and Scotland than elsewhere. But there are differences in the structure of degree courses as between Australia and the United Kingdom. For example, although Australia endeavours to keep its standards in line with those of the United Kingdom, it places more emphasis on the importance of the pass degree. Its universities usually have more faculties, and there is a considerable stress on professional education at the university level. In addition, most Australian universities, but not all, admit 'external' students, at least within their own states, as well as 'part-

time' internal students. There is also a tendency in Australia, especially in science and applied science, for honours courses to require an additional year of study, including research, while at the undergraduate level, examinations in most university departments tend to be set at the end of each academic year of study.

The 'unit' of study is an academic year's work (30 weeks approx.) in 'part' of a 'subject', but a unit in the American sense would represent only a small, or very small, section of an Australian bachelor course. Australian universities, like universities in Britain, throw responsibility on the student, and hours in class are seldom an adequate criterion as to the quantity and quality of work expected to be covered by students. Although general-type courses exist, there is more emphasis on 'depth' and less on 'breadth' in the structure of Australian degree courses.

A 'faculty' consists of a broad division of knowledge (e.g. arts, science, medicine, engineering, etc.), including its teachers, and it may incorporate a single 'department' or many departments. In the former case the head of the department may by annual or periodic election become the permanent dean of the faculty. In the latter case the deanship tends to rotate. A department is responsible for a 'course of study' in a subject (e.g. English) or in a group of subjects (e.g. modern languages). The course of study is divided into stages or parts by 'years of study' (e.g. year I or part I or stage I of the course, etc.), the parts comprising the units of the course (e.g. English I, II, III), English I being a first-year unit and English III a third-year unit. Students are not generally allowed to proceed to units of higher grade until they have passed the corresponding units of lower grade. Sometimes after the first year a department sets out its offerings in the following manner: English IIA, English IIn, English IIC, etc.; students being allowed to select two or more units in their second and third years. Occasionally there is selection in each year of study, honours candidates being required to take certain specified units or more units than pass candidates. To-day, because of the use of machines in the university administrations, course units are often designated by code numbers.

Departments often suggest 'schemes of study', and sometimes related departments combine to make 'schools of study'. A unit in the arts faculty may involve from two to four lectures a week plus assignments, tutorials, attendance at discussion groups and so on. The lecture requirement is similar in science, but four, six or more hours of laboratory work are required.

Nine units spread over three years are normally needed to complete a bachelor course in arts or science, but courses of ten units exist. A typical nine-unit course would include four units in the first year, three in the second and two in the third, an 'annual' examination being held at the end of each year. A science student taking a first-year unit might spend six or more hours a week in class work. The same student taking a

third-year unit would probably spend twelve or more hours a week, most of them in the laboratory. In place of the laboratory, students of arts, economics and law need to make good use of the facilities provided in the library. Because of the time-consuming demands of science courses, there is to-day a trend in some universities to retain the three-year pass course but reduce the total academic load, while in other universities the lengthening of the course to four years (for pass and honours) is being attempted or debated.

The failure-rate in the first-year examinations is fairly high (of the order of 35 per cent on average). In Australia the first year of study operates as a diagnostic year for student retention. This means that the first-year examinations function as internal selection examinations; but after their successful completion the chances of a full-time student completing his course are fairly good in most, though not in all, faculties. Many students take longer than the minimum period to complete their courses because they are required to repeat failed units or to repeat a year of study.

Practical tests in science subjects and oral tests in language subjects are employed as part of the annual examinations. Supplementary examinations may be allowed students who fail one or more units at an annual examination, but the type and time of examination vary with faculty and university, and not all faculties grant supplementaries. The terms used in grading passes also vary, such expressions as high distinction, distinction, honours, merit, credit, etc., being employed. The University of Melbourne and Monash University use the term 'honours' to grade their units as well as their degrees.

The units in professional courses are greater in number than in arts and science, and often part-units are introduced in higher years of study. Lesser units or part-units are also found in diploma courses. Altogether there are fourteen faculties among the Australian universities, including arts and science, the basic pass courses of which are still of three years' duration in most of the universities. The length of professional courses for the bachelor degree varies from three to six years, e.g. agriculture, forestry, law, economics-commerce, education, music—mostly 4 years (although at Sydney economics takes 3 years and there is an alternative course of 3 years in agriculture); engineering, technology—4 or 5; architecture, veterinary science, dental science—5; medicine—6. Some of the shorter courses require an additional year for honours, and some professional courses begin with a pre-professional year in arts or science. In a few professional areas, bachelor degrees are given only at the postgraduate level, for example, in divinity, and at Melbourne and Queensland in education. In divinity the major work may be undertaken at an affiliated theological college or even outside the university altogether (see section on 'Institutions of Higher Education other than Universities', below). The most common qualification in education is a diploma in education involving one year

of professional training following a first degree; and in some universities promising candidates may proceed direct to the MEd degree on completion of the DipEd. There are first degree courses of 4 years for the BEd degree at Sydney and Western Australia, but both these institutions award the DipEd to graduates. However, while at Sydney a graduate who has completed the DipEd may, under certain conditions, proceed direct to the MEd degree, in Western Australia he normally completes the BEd degree (of which the DipEd is the first year of the course for graduates) before undertaking the work for the MEd degree.

In some universities, where the content of honours courses during the second and third years in arts is more demanding than the content of pass courses, a student may succeed in completing a BA with honours in three years. But the trend of the times is towards a four-year honours course particularly in science. In law and medicine, honours are usually decided on the quality of the passes in the course. In basic faculties students are allowed in some universities to take either a pass course or an honours course, although students mostly need to obtain permission to undertake honours and many avoid doing so because of the extension of time. Students who do not gain honours may be credited with a pass degree, while some students who take only pass courses produce not undistinguished records. The increased subsidisation of students to-day, especially in science, is encouraging a rising percentage to proceed to honours, and particularly when an additional honours year involves not only extra study but also an honours thesis exemplifying some competence in the methods of research.

Many Australian students in faculties of arts, commerce and economics are 'part-time' in that they undertake university study while engaged in full-time employment as teachers, civil servants or clerical workers. Mostly, students of this type are not allowed to enrol in all the units of a given academic year. Often the maximum permitted is two per year. Part-time enrolments in the faculties concerned cause lectures to be repeated in the late afternoon or evening. Thus the minimum period for graduation of part-time students is often five or six years. Some universities allow the enrolment of part-time students who attempt a full-time course, but this is generally discouraged (see section on 'Students', below).

Further, most of the undergraduate teaching universities make provision for 'part-time external' students in remote country districts. Many such students are teachers in primary or secondary schools. The universities of Queensland and New England have special external departments, and Queensland makes provision for external 'overseas' students, some of whom are enrolled under the Colombo Plan. The University of Sydney, however, does not permit external enrolment (see section on 'Students', below).

The minimum period of full-time study for

an MA or an MSc degree is five years from matriculation or two years from completion of the ordinary bachelor degree. But, if a BA or BSc degree with honours is obtained in four years, a student can usually proceed with his research and present his master's thesis without further examination. Pass graduates must undertake additional study and undergo further examination, usually at honours standard, before being permitted to present their theses for the master's degree.

In professional faculties, including medicine, law, engineering and education, there are varying procedures at the master level, often involving additional examinations and sometimes professional experience. For graduates proceeding to higher degrees the current trend is towards the supervision of their work up to the degree of PhD.

To-day an increasing number of candidates with good honours degrees in science is by-passing the master's degree and proceeding direct to the degree of PhD, although some departments, particularly in the arts faculty, prefer students to take a master's degree first. The minimum period for the PhD degree is usually six years from matriculation, although seven or eight years of study and research are common among able students. The PhD is the highest award for supervised research work and the thesis usually needs to be acceptable for publication in whole or in part if its material has not already been published. Not all faculties or departments permit students to enter for the degree (see p. 18), which in most universities is controlled by a special committee. Students enrolled for the PhD degree may be required to take special units of study appropriate to their doctoral researches. Some universities allow part of the course to be carried out under approved supervision in other universities or research institutions, or else they permit a section of the work to be undertaken part-time. The higher doctorates (LittD, LL.D, DSc, etc.) are generally awarded to-day to graduates of high standing for published work or independent research which represents a substantial contribution to knowledge. Most universities will not accept submissions for the higher doctorates unless candidates are their own graduates or unless they are members of staff.

Diploma courses vary in length from one to three years; some are awarded for subgraduate study and others for postgraduate study. Most diploma or certificate courses have a practical bearing and emphasize techniques and skills although they not infrequently include units which form part of degree courses. The practical work required is often carried out in affiliated or associated institutions such as hospitals, schools, teachers' colleges, technical colleges, conservatoriums, etc.

The 'practical' requirement in degree courses in science and applied science frequently includes 'field work' (e.g. in botany, zoology and geology), or experience on farms, in industry, or in engineering works. Sometimes practical experience of

this type is 'sandwiched' into a course by using occasional terms or long vacations. More often, perhaps, the experience necessary for registration by professional bodies needs to be obtained after the completion of the degree course. At the University of New South Wales, students working for degrees in architecture, engineering, medicine, science and technology take, as part of their courses, units in the humanities and social sciences. Similarly, students undertaking meta-type studies, take at least two courses in scientific thought or in the natural sciences.

**TEACHING STAFF** The head of a full university department is a professor; but in large departments there may be several professors, one acting as the administrative head with an appropriate title. In a university research institute one of the professors may hold an appointment as director. Departments of more junior standing are often administered by staff of sub-professional rank. Although in some universities it is not uncommon to fill professional chairs by internal promotion, such positions are usually advertised. It is a more frequent practice to fill positions of lower rank by internal promotion from among lecturers with a good teaching or research record.

Professorships are regarded as permanent appointments although they may need to be confirmed after an initial term of service. Below professional rank there are various gradings. The most junior positions (tutors, teaching fellows, graduate assistants, etc.) are often limited in tenure, with a maximum of three years. Demonstrators in science departments, according to their qualifications and experience, may hold short-term or long-term appointments, and some of the more senior posts rank with lectureships. In departments of science and applied science there are positions of varying seniority including laboratory manager and technical assistant, which may be held by graduates or by the holders of technical qualifications.

Most university teaching staff hold the rank of lecturer or senior lecturer, and above these positions there is a grading of associate professor or reader. These positions are regarded as permanent, even though they may be subject to periodic review. In the Institute of Advanced Studies of the Australian National University the permanent grades include: professor, reader, senior fellow and fellow. Short-term appointments in the Institute are made to the positions of senior research fellow and research fellow. Among the Australian universities, the normal retiring age for holders of permanent appointments is 65 years; but holders of more senior positions, and especially of chairs, occasionally have their appointments extended beyond this age.

The usual teaching methods include lecture, seminar and tutorial. In science departments these methods are supplemented by demonstration and laboratory class, and often by field work or work in a museum. The use of audio-visual aids, as well as mechanical aids to computation,

is common to-day in most departments. Essays, assignments, dramatic work and methods of oral expression are frequent in arts departments, which lean heavily on the library, and some universities are experimenting with the idea of supplementing class work by television broadcasts. Because research and publication provide avenues for promotion an attempt is made to limit the teaching load of more junior lecturing staff even though enrolments in first-year classes are considerable. Some staff members devote their time to research and to postgraduate students; but most lecturing staff, according to their teaching, tutorial and laboratory commitments, have about one-half of their time theoretically available for their own special pursuits. Heads of departments, however, need to devote much of their time to administrative duties including attendance at faculty and other meetings.

Among the Australian universities academic salaries are reasonably comparable, and although some differences between them occur from time to time, the similarities are usually greater than the differences. For certain positions in medicine, law, engineering and science, the standard salaries may be supplemented, especially at the professional level. Allowing for some variation between institutions, at the time of writing, the approximate standard rates of salary being paid in Australia are: professor, £A4250 or more, according to the institution concerned; reader or associate professor, between £A3000 and £A3500; senior lecturer, between £A2500 and £A3000; lecturer, between £A1700 and £A2500. Salaries at the lower levels are graded, while professional salaries tend to be fixed.

Subsistence or study leave is granted to teaching staff of the grade of lecturer or above, and a number of the universities provide grants of varying amount, in addition to salary, to assist staff members to travel overseas during their leave. Financial provision is also made by some universities to help staff travel to conferences in Australia and occasionally abroad. All the universities have superannuation schemes, mostly on the lines of the F.S.S.U., although some schemes are more generous than others. At Sydney, for example, professional staff may elect to contribute either to the Sydney University professional superannuation scheme or to the New South Wales superannuation scheme. A professor who elects to contribute to the first scheme, which is similar to the F.S.S.U., is granted a non-contributory pension additional to the benefits of the scheme. The lecturing staff comes under the New South Wales state superannuation scheme. Among other amenities are staff houses or clubs at a number of the universities. Each university has its staff association, and there is a federal council of staff associations. Various universities own or rent houses or flats for the benefit of newly arrived staff, and most of them also have schemes to assist the purchase of homes by staff members.

The usual Australian practice is to advertise vacant teaching posts. There is no statutory

restriction as to nationality and vacancies are generally open to candidates of foreign birth or nationality provided they have an adequate command of the English language. The advertisement of junior positions is frequently confined to Australia and New Zealand, but lectureships and more senior posts are very often advertised in the United Kingdom, and to a lesser extent in European countries and North America. With the most senior posts (e.g. professor or reader), even though positions are advertised, a university may retain the right to appoint by invitation after private enquiry.

In 1960 the total number of full-time and part-time teaching and research staff in the Australian universities (part-time staff in brackets) was: professors, 335 (including 3 part-time); readers, associate professors, lecturer-in-charge, etc., 292 (2); senior fellows and fellows of the A.N.U., 55; senior lecturers and lecturers, 2940 (294); research fellows and research fellows of the A.N.U., 51; tutors, demonstrators, etc., 1314 (599); external studies, 86 (63). Total, 5953 (1592). In addition, library staff numbered 396 (9).

Disregarding part-time and visiting staff, as well as junior staff (tutors, demonstrators, teaching fellows, graduate assistants, etc.), who are mostly recruited locally, Australian full-time staff from lecturer to professor in 1960 consisted of: (a) Australian graduates without degrees from other countries, 49 per cent (local degrees 27%, graduates from other Australian universities 22%); (b) graduates from the United Kingdom, 34 per cent (London 9%, Cambridge 8%, Oxford 71%, other English 64%, other U.K. 24%); (c) graduates from other British Commonwealth universities, 4 per cent; (d) graduates from continental Europe and the U.S.A. (in about equal proportions), 10 per cent; and (e) others, 3 per cent.

One-half of staff with U.K. degrees consisted of Australian graduates, who mostly studied at the doctoral level. As two-thirds of staff with U.S. degrees and one-quarter of staff with European degrees were also Australians, the total effect was that in 1959 seven full-time staff members out of ten were Australian born.

Further, the more populous universities of Sydney, Melbourne, Queensland and Adelaide appointed one-quarter of senior staff members, of the rank of reader or professor, from among those who did not hold degrees of other universities. In the less populous universities of Western Australia, Tasmania and New England senior appointments of this type were few in number. However, the first group of universities appointed 52 per cent of senior staff from those holding degrees of the United Kingdom (three-fifths of them Australians), while the second group appointed 63 per cent from the same source (three-quarters of them Australians).

STUDENTS. In 1960 the gross enrolment in the Australian universities was 54,322 students. Of these, 32,144 were full-time (60 per cent), 16,691



were part-time (50 per cent), and 5497 were external (10 per cent). The number of women was 12,654 (23 per cent.). In the total were 2771 graduates proceeding to higher degrees (5 per cent.) of whom 141 (including 15 women) were full-time students in the Institute of Advanced Studies of the Australian National University. During 1960 15,898 new students were enrolled (29 per cent. of total students). Of the new students 6 per cent. were age 16, 31 per cent. age 17, 21 per cent. age 18, 8 per cent. age 19 and 34 per cent. age 20 years and over. Most of the new students in the last category were part-time or external.

Part-time students usually study in the evening. However, there are part-time day students, and in some universities there are evening students who take full-time courses. As mentioned earlier, part-time students are generally limited in the number of units they may take in each academic year (see section above on 'Structure of Degree and Diploma Courses'). Sometimes tutorial classes for external students are arranged in country districts or at convenient centres during vacations. This is done by the universities of New England and Queensland, while lecture notes, reference lists and not infrequently library books are sent to these students by various universities (see section below on 'Extra-Mural Classes and University Extension').

Australian students mainly live at home (72 per cent.). The reason is that the majority of the universities are situated in areas of greatest population density. The percentage quoted relates to the year 1960 when there were 41 residential colleges or halls. These, however, accounted for only 8 per cent. of students, while a further 20 per cent. were living in lodgings. At the University of New England almost all internal students are in residence. The Australian National University is largely a residential institution at the postgraduate level. University House provides accommodation for staff as well as for postgraduate students without children. There is also a hall of residence for other students.

Most universities have a student union responsible for student amenities including refectory, club rooms, sports buildings and ovals, occasionally a theatre, and so on. Student affairs are generally under the control of a student representative council and there is a wide range of sporting, social, cultural, religious and political clubs and societies. At the University of Western Australia, student societies as well as clubs and societies are under the control of a body called the guild of undergraduates, while at the Australian National University the social life of the staff and postgraduate students is centred in University House, which is also a residential college. At most of the universities there is an officers' training corps or university regiment and at a number of the universities there is also an air training squadron. During the short vacations inter-university cultural and athletic contests are held. The federal body dealing with student

affairs is the National Union of Australian University Students.

Various welfare services exist for the benefit of students. A number of the universities have health services, and students to-day are required to undergo a compulsory X-ray examination of the chest. There are also student advisers, counsellors or guidance officers. At some of the universities there is a warden of students, or a similar officer of senior standing, who is responsible for the general administration of student buildings and affairs, and for the co-ordination of student activities. Most universities have an appointments board or an appointments officer, and various universities have special research officers or staff members, associated with their administrations, or with their departments of education and psychology, to study student problems as well as the broader issues in university education at the present time. To-day many students take paid employment during their long vacations, and even at other times, to assist them financially with their studies. Some of the universities have housing officers; otherwise information is obtainable from the central administrations or the student bodies. In most universities the student bodies gather information about lodgings or hostel accommodation. Most student bodies publish their own newspapers, and a number of them also produce orientation booklets at the commencement of each year for the benefit of new students. To help such students, student organizations and teaching staff co-operate during an 'orientation week' before lectures begin.

The general fee for membership of student bodies, including the use of union facilities, varies from a nominal amount up to about £15 p.a. according to the amenities provided. Additional charges are made for individual membership of student clubs and societies. The fees charged by residential colleges and halls are separate from ordinary university fees, including the fees of the student bodies which are usually collected at enrolment time. College fees include residence during term as well as tutorial assistance. Additional costs are involved when a student remains in residence during vacations. The charges made by university colleges or halls of residence vary between £A150 and £A300 a year, and taking account of university and other fees, college students will probably need up to £A600 to carry them through a full calendar year. The normal cost of reasonable lodgings or hostel accommodation varies from £A3 to £A7 per week. Tuition fees vary according to university and faculty; but in Monash University there is an overall fee irrespective of faculty. In addition, Monash University makes no compulsory charge for student amenities.

Most university students are Australian born; but since the war increasing numbers of students from migrant families have been enrolled. Many of these have come not only from the United Kingdom, but also from continental Europe. In addition, 3272 students from Malaya-Singapore, Hong Kong, India, Pakistan, Ceylon and Indo-

nesses, as well as from other countries in south-east Asia and the Pacific, were enrolled in the universities during 1961 (including 496 under the Colombo Plan). The university enrolment represented about three-tenths of all overseas enrolments from primary school to university. Australian National University postgraduate scholarship holders in March 1962, included 95 from overseas, many of them from the United Kingdom, Europe and North America.

Of all students enrolled in the Australian universities during 1960 (i.e. including full-time, part-time and external students) almost one-half were assisted by scholarships, bursaries, free places and other forms of financial assistance; but of full-time students only the proportion was four in five. Further, four-fifths of the total assistance available came from Commonwealth and state governments, of which over half was represented by scholarships under the Commonwealth Scholarship Scheme\*. This scheme was established by the Commonwealth government of Australia in 1951. Under it 4000 new scholarships are now provided annually for open competition among intending students who wish to undertake courses in the Australian universities or in other approved institutions of higher education. The scholarships are awarded on merit; and because of rapidly rising numbers of qualified applicants selection standards have been increasing in severity. To qualify for the scholarships, applicants and their parents must be resident in Australia at the time of the award of a scholarship and must intend to remain permanently in Australia. The maximum annual value of an undergraduate award to a full-time student, including (i) fees, etc., and (ii) living allowance (the latter being subject to a means test) at a high-cost university, such as Sydney, and in a high-cost course such as medicine is—*living at home*—fees, etc., £A150 plus living allowance £A247, total £A397, *living away from home*—fees, etc., £A150 plus living allowance £A384, total £A534. Many students, because of the means of their parents, do not qualify for the living allowance. Additional Australian Commonwealth scholarships and fellowships of a value varying from £A750 p.a. to £A1260 p.a. are available for postgraduate study and research. A residential qualification attaches to these awards, so it does to the undergraduate awards. Financial assistance provided by the states to university students includes 'bonded' awards which bind recipients to subsequent professional service in the states concerned. Bonded awards are often made to prospective teachers, scientists and engineers.

Except at the Australian National University, there are relatively few awards open to overseas students although considerable numbers of Asian students have their higher education paid for by Australia under the Colombo Plan. Other students are assisted under Unesco schemes or by scholarships awarded to them in their own

countries. However, greater opportunities for postgraduate study by overseas students are now available under what is called the [British] 'Commonwealth Scholarship and Fellowship Plan' (see last paragraph of section on 'Inter-University Organisations', below). To-day, such bodies as the Australian C.S.I.R.O., as well as banks and industrial organizations, provide scholarships for undergraduate and, especially, for postgraduate study, but few such awards are open to overseas students.

Estimates of future university enrolments indicate a rise from approximately 37,000 students of all types in 1957, at the time of the Murray report, to a total of approximately 88,000 by 1965. The latter figure, which is dependent upon the provision of university facilities and staff, represents an estimate made by the Australian Universities Commission in 1960.

**ACADEMIC YEAR.** The Australian academic year accords with the seasons of the southern hemisphere. On average the teaching year of three terms begins in early to mid-March following the enrolment of students and, in a number of the universities, in orientation week. The first term ends about the second or third week in May. The second term begins during the first or second week of June and continues until the first or second week of August. The third term begins about the first of September and continues until the end of October or early November, after which the examinations, occupying a period of three weeks to a month, are held. In most universities the ordinary teaching and examining work of the year finishes about mid-December, when the long vacation begins (see next section).

**VACATION COURSES.** Regular summer sessions of the American type, with university credit for work successfully performed, are not held in Australia but 'summer schools' for extra-mural students are held, and in most states these are not under direct university auspices even though university staff assist. Practical field work, and work in industry, hospitals or schools, required as part of degree or diploma courses, is often done during long vacations, similarly, staff and postgraduate students usually use these vacations to further their personal researches. At some universities seminars for students who study externally are arranged in the vacations. During vacations and occasionally during term, individual university departments arrange conferences or run in-service courses for the benefit of teachers, business and professional groups, farmers and those engaged in the social services or in scientific occupations. Sometimes this work is linked with university extension services or with adult education activity (see next section).

**EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION.** University extension lectures began at

\* This Commonwealth (of Australia) Scholarship Scheme is completely distinct from the [British] Commonwealth Scholarship and Fellowship Plan (see pp. 14, 15 and Appendix VII) in which many countries of the British Commonwealth participate.

Sydney University in 1886 and at Melbourne in 1891. In 1913 workers' educational associations were formed in these states. Since then changes have taken place in the organization of the work which is now mostly known as adult education. However, where the W.E.A. continues, it is assisted by university staff in the conduct of tutorial classes, a university officer usually acting as director. The Sydney organization includes a joint committee of W.E.A. and university, the committee appointing the tutors and supervising their work. In Victoria adult education is under a statutory council set up by the state government, while the University of Melbourne has a separate extension board. In Tasmania there is a board of adult education with university representation, and a body of the same name exists in Queensland. Adult education in South Australia is shared between the University of Adelaide department of adult education, the W.E.A., which works in close collaboration with the university department, and the state education department. In Western Australia, where adult education is an extra-mural function of the university, there is an adult education board responsible to the university senate. The University of New England takes responsibility for adult education in its area; the University of New South Wales, which has its own radio station, conducts extension courses under a co-ordinator of postgraduate and extension studies; and at the Australian National University there is a department of adult education within the school of general studies. In states which have adult education boards, whether under direct university auspices or not, the responsible officer is usually called the director of adult education. For many of their courses the boards depend on the co-operation of university teachers, and during the summer schools held in January, professors and senior lecturers are among the leaders. The boards are not only responsible for classes and study groups in city and country, but they also sponsor drama, music, ballet, art, etc., and arrange for groups of performers as well as tutors and lecturers to tour country districts.

Although not specifically regarded as part of adult education or university extension, the comprehensive system of correspondence education developed for external university students (and even for overseas students) by the University of Queensland, supplemented by classes in country districts, represents a substantial extra-mural function. A similar service is conducted by New England, while some other universities have less ambitious schemes (see sections on the 'Structure of Degree Courses, etc.' and 'Students', above). Despite these particular activities, as well as tutorial class activities in New South Wales, adult education in most Australian states is not regarded as instrumental in the attainment of higher technical or academic qualifications, but rather as a means towards general cultural education, or assisting with leisure-time pursuits and skills.

**INTER-UNIVERSITY ORGANIZATIONS.** The present Australian Vice-Chancellors' Committee developed from a standing advisory committee created to deal with matters of common interest following a university conference in Sydney in 1920. Although it is still in the main a consultative body, the committee now performs many important functions where general university policy and the national interest are involved. This is especially true since the report of the Murray committee and the increased interest of the Commonwealth government of Australia in the welfare of the universities, including the establishment of the Australian Universities Commission, referred to previously. The Vice-Chancellors' Committee keeps in touch not only with the Australian Universities Commission but also with the Commonwealth government itself, and with its departments, including the Commonwealth Office of Education and the Commonwealth Scholarships Board on such matters as local and overseas students, as well as the [British] Commonwealth Scholarship and Fellowship Plan. The committee usually meets five or six times a year; and with its support periodic meetings of university registrars are held, usually in the middle of each year.

The present chairman of the Vice-Chancellors' Committee is Professor J. P. Baxter, CMG, OBE, vice-chancellor of the University of New South Wales. The deputy chairman is Mr. S. L. Prescott, OBE, vice-chancellor of the University of Western Australia, and the secretary is Brigadier R. G. H. Irving, CBE, University of Melbourne, Parkville, N.Z., Victoria. The address of the Australian Universities Commission is Commonwealth Offices, Treasury Place, Melbourne, C.Z., Victoria. The commission's chairman is Sir Leslie Martin, CBE, and its secretary is Mr. D. St. A. Devlin.

The staff associations of the universities have combined to establish a Federal Council of University Staff Associations of Australia. The president of the Federal Council, which came into existence in 1952, is Professor R. H. Thorp, department of pharmacology, University of Sydney. The hon. secretary/treasurer is Mr. K. D. Buckley, department of economics, University of Sydney.

The National Union of Australian University Students dates from 1937, when, during an Australasian university conference at Adelaide, it was decided by the representatives of the student bodies to form a union on the lines of the union in England. The N.U.A.U.S. has its own council to which the student bodies send their delegates. Each year the N.U.A.U.S. holds a congress in January.

Office-bearers of the N.U.A.U.S., at the time of writing, include Mr. G. Harvey, Guild of Undergraduates, University of Western Australia (president) and Mr. G. W. Evans, N.U.A.U.S. Secretariat (vice-president). Lieutenant-Colonel R. G. L. Bowles (administrative secretary) is in charge of the secretariat, the address of which is 52 Storey Street, Parkville, N.Z., Victoria.

To administer the scheme by which students granted reservation for university study during the war were financially assisted, the Commonwealth government established a Universities Commission in 1942. However, with the creation of the Commonwealth Office of Education under the Commonwealth Education Act of 1945, the Universities Commission became responsible for the Commonwealth Scholarship Scheme as its major function. Then in 1959, to avoid confusion with the new Australian Universities Commission, an amendment was made to the Education Act whereby the name of the older commission was changed to the Commonwealth Scholarships Board.

The director of the Commonwealth Office of Education is Mr W. J. Weeden, who is also chairman of the Commonwealth Scholarships Board. The address of the Commonwealth Office of Education and of the Commonwealth Scholarships Board (the secretariat of which is provided by the C.O.E.) is 50 Miller Street, North Sydney, or Post Office Box 189, North Sydney, New South Wales.

There are branch offices of the C.O.E. and of the Commonwealth Scholarships Board in each state except Tasmania, and these offices work in close conjunction with the university administrations.

As a result of the legislative changes in 1959, the Commonwealth Office of Education and the Australian Universities Commission function as separate entities under the prime minister's department. Before the establishment of the Australian Universities Commission, the Commonwealth Office of Education was responsible for Commonwealth grants to the universities under the States Grants (Universities) Act.

One of the activities of the Commonwealth Office of Education is the supervision of the university training of overseas students who now come to Australia under a number of international scholarship schemes. The biggest of these is the Colombo Plan Technical Co-operation Scheme, but in addition, the C.O.E. supervises the training of students under such schemes as the Korean Training Scheme, the United Nations Expanded Programme of Technical Assistance and the scheme of Australian International Awards. There are also commitments towards students who come to Australia to study under the [British] Commonwealth Scholarship and Fellowship Plan, an aspect of the scheme of Commonwealth co-operation in education which resulted from a conference at Oxford in 1959. Further, Australia's intention to participate in a new scheme of assistance to African countries, under the Special Commonwealth African Assistance Plan, was announced by the Australian government during 1961; and the C.O.E. is now acting as a training authority for students in Australia under this scheme.

**THE UNIVERSITIES TO-DAY.** By 1960 the universities of Sydney and Melbourne had each

enrolled more than 11,000 students, and other universities had shown a corresponding growth. After the conclusion of the second world war none of the universities experienced a settling-down period. Research deficiencies, which became evident during the war, an increasing demand for higher professional, technological and academic qualifications, new national and international responsibilities, and an accelerated industrialization have all affected the growth and pattern of Australian higher education, and especially of the universities. During the past few years, apart from large-scale power and water schemes, defence projects involving also the United Kingdom, and nuclear research and automation, there has been an increasing tide of adolescent youth remaining longer in the secondary schools. This particular evidence of rising educational expectations has not only created problems of organization and staffing in the schools, but it has also caused the universities to be flooded with applicants qualified for admission according to the accepted matriculation standards. In this regard, it has not been easy to apply educational solutions, characteristic of countries with long traditions, small land area and high population density, to a continent, such as Australia, with shorter traditions, large land area and low population density. Nevertheless, the universities of Sydney and Melbourne have lately found it necessary to introduce post-matriculation selection, to cope with numbers, and a possible development in 1964 is the proposal to establish a joint matriculation board for Melbourne and Monash universities. Both these solutions are reminiscent of educational practice in Britain.

Reference has already been made to the increasing commitment of the Commonwealth government of Australia in university finance since the war. A major effect of this development has been a general acceptance, during the past ten years, of the view that the universities can now function successfully only on the basis of a joint Commonwealth-states responsibility. This attitude is to be seen in the recommendations of the Murray committee of 1957 and in the first report of the Martin commission of 1960, the financial proposals of which for the triennium 1961-63 were accepted in full by the Commonwealth government. The charter of the Martin commission required that it should (1) act as a liaison body between Commonwealth, states and universities; (2) report on university development every three years; and (3) make recommendations to the governments concerned on university finance.

Developments in the Australian universities since the report of the Murray committee have been considerable. More money has been available for staff and other expenses, salaries have been raised, many new buildings have been started or erected, new equipment has been supplied, research work has been extended, new departments established and new universities created. This growth has not been without controversy; and there is constant discussion about matriculation,

selection, failure rates, university teaching, expansion problems and staff recruitment.

Recent developments include the creation of the University of New South Wales in 1958 from the earlier New South Wales University of Technology, the establishment in the same year of Monash University in Melbourne, the change in status and organization of the Australian National University, Canberra (in 1960) and the beginnings of university decentralization in Queensland with the opening of the University College of Townsville (in 1961).

Further, in March 1961, Monash University opened its doors with 3,500 students in the faculties of arts, economics and politics, engineering, medicine and science. When fully developed it is expected that the university will have about 8,000 full-time students and 4,000 part-time students. Also early in 1961 the government of Victoria appointed a committee to survey university needs during the next decade, and it asked the committee to report whether a further university should be established in Victoria, or whether there should be university colleges in city and country. Later in the same year the Commonwealth government established a committee to examine the future of tertiary education throughout the whole of Australia, including universities, technological institutions, technical and other colleges, and teachers' colleges.

Another significant development in 1961 was the holding of the first biennial conference of the Australian universities at the University of Sydney, under a co-operative arrangement between the Australian Vice-Chancellors' Committee and the Federal Council of University Staff Associations of Australia. The intention to hold periodic university conferences reflects the model of the Home Universities Conference in the United Kingdom.

**INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES.** It has been mentioned already that there are Australian institutions of higher education which are not regarded as university institutions (e.g. technical colleges, schools of mines, agricultural colleges, forestry schools and teachers' colleges) although a number of them are affiliated to or are associated with universities. In Australia there are no private or denominational universities, and, with one exception (see section below on 'Theological Colleges'), only the universities have the right to award the degrees of bachelor, master and doctor. Non-university institutions award associateships, diplomas or certificates; but some higher level institutions award fellowships and similar qualifications. Entrance to most diploma courses is at a lower standard than that of matriculation and is often at the level of the junior or intermediate certificate examinations (see Appendix III). However, there are varying admission standards according to the types of course students elect to take. Some courses (e.g. architecture) normally require university matriculation or its equivalent, while holders of certain college diplomas may be

granted university matriculation, or in addition they may receive partial credit towards university degrees.

**Agricultural Colleges.** The colleges of agriculture such as Gatton (Queensland), Hawkesbury and Wagga (N.S.W.), Longerenong and Dookie (Victoria), Roseworthy (South Australia) and Murrumbidgee (Western Australia) provide practical courses up to four years in length in the different aspects of agriculture. Their admission standard is generally below that of the leaving examination and matriculation although most of them are associated with the universities in the practical or the experimental aspects of agriculture. Some of the agricultural colleges assist in the training of teachers for rural communities.

**Conservatoriums of Music.** These are conservatoriums at the universities of Adelaide and Melbourne and degrees in music as well as diplomas are awarded. In these institutions the standard of admission to major courses is at the level of matriculation, but at Adelaide many conservatorium students, studying to become performers or teachers of music, are admitted below the matriculation level. In New South Wales and Queensland there are state conservatoriums separate from the universities. These admit students below the normal university entrance standard, although applicants need to possess practical qualifications in music.

**Forestry Schools.** The best known school of forestry is the Australian Forestry School in Canberra. Sydney awards its degree in forestry on work done at the school. In other universities degrees in forestry are usually awarded to students who spend part of their time in a university science faculty and part of it at the Australian Forestry School. The University of Melbourne recognizes the Creswick Forestry School in Victoria for degree purposes.

**Service and Administrative Colleges.** At the more advanced level students of the royal naval, military and air force colleges require not less than the equivalent of matriculation to be admitted, while certain college courses in science and mathematics are accepted by the universities as a part qualification towards degrees. The Australian School of Pacific Administration (Sydney), under the Commonwealth department of territories, trains students in the various aspects of service and administration in dependent areas. There is also an Australian Administrative Staff College (Melbourne) for the higher level training of business and other executives.

**Teachers' Colleges.** The standard of admission to the teachers' colleges varies somewhat from state to state but most students are recruited at the level of the school leaving certificate (see Appendix III) and many of these also hold university matriculation. The standard course for primary teachers is of two years, but matriculated students, preparing for secondary teaching, who attend the universities, may spend three, four or five years as 'college' students. There are shorter courses for certain categories of student,

and not infrequently the colleges assist in the training of graduates for the DipEd awarded by the universities. To-day there is an increasing tendency for the work of the colleges to be integrated with that of the universities. This is being done by co-operative association or by affiliation, and in Tasmania by incorporation in the university framework. Most teachers' colleges are controlled by the state governments, but there are a few independent teachers' colleges.

**Technical and Technological Institutions.** Admission to diploma and similar courses in technical colleges is usually at the level of the junior or intermediate examinations (see Appendix III), although some courses (e.g. architecture) require the leaving certificate, matriculation or the equivalent of these qualifications. The more advanced teaching in the colleges and schools of mines, especially in the physical sciences and mathematics, is often at a standard which permits candidates to enter for university examinations, and occasionally passes in the examinations of the institutions mentioned provide a partial exemption from university degree requirements. Although many diploma students are enrolled full-time, the technical colleges admit considerable numbers of part-time students. Technical, associate or diploma courses in engineering and science, which are of five years' or three years' duration, have a more practical bearing than degree courses.

In 1936 the University of Adelaide joined with the South Australian Institute of Technology to enable degrees in technology to be awarded by the university. In Western Australia the Kalgoorlie School of Mines is associated with the university faculty of engineering in the award of university degrees in mining engineering.

The trend of the times is to refer to 'technological education' or 'higher technological education' when emphasis is placed on the more advanced and scientific aspects of what was formerly known as 'technical education'; and while some areas of technological education are now established as functions of universities, others are being developed within the framework of institutes or colleges of technology or else in departments providing a higher level of teaching in technical colleges. In recent years the Royal Melbourne Technical College has become the Royal Melbourne Institute of Technology, and similar changes are occurring elsewhere. An earlier development, as indicated previously, was the establishment of the New South Wales University of Technology in 1949. This was done by streamlining off the more advanced courses at the Sydney Technical College. However, in 1958 the N.S.W.U.T. became the University of New South Wales.

**Theological Colleges.** The teaching of theology is mainly done in denominational colleges or seminaries, providing their own qualifications independent of the universities, although some of the residential colleges affiliated to the universities and administered by the churches assist in the teaching work. The standard of admission ap-

proximates to the level of the leaving certificate and it may be at matriculation level. Teaching in some of the colleges is at a standard comparable with that of university undergraduate courses, and a few colleges are recognized by one or two universities for degrees or diplomas in divinity. Among Australian theological colleges is the Australian College of Theology and the Melbourne College of Divinity. The latter institution awards the degrees of BD and DD.

**Research and Professional Institutions.** The best known independent medical research foundation in Australia is the Walter and Eliza Hall Research Institute in Melbourne which is linked with the Royal Melbourne Hospital as well as with the University of Melbourne. Among other bodies is the Australian Council for Educational Research, also situated in Melbourne. However, the largest single research organization in the country is the government-controlled Commonwealth Scientific and Industrial Research Organization which has many branches, as well as close affiliations with the universities, including C.S.I.R.O. laboratories on most university sites. At the postgraduate level there are royal Australian colleges of physicians and surgeons. There are also professional associations of lawyers, engineers, scientists and teachers (e.g. the Law Society, the Australian Institution of Engineers, the Australian Academy of Science and the Australian College of Education). These institutions admit to membership as a mark of professional recognition, and in some cases to fellowship as an award of special distinction.

**FURTHER INFORMATION** (see also Appendix VI and the 'Publications' section in each university entry below). Reference works on Australian universities.

*Yearbook of the Commonwealth of Australia*, No. 47, Chapter XV, Section 8, Universities. (Govt. Printer, Canberra, for Commonwealth Bureau of Census and Statistics, 1961). Reviews recent history of the Australian universities and provides statistical information for the year 1959. The history, growth and development of the Australian universities may be traced by referring to earlier editions of the *Yearbook*.

*Vester* (Journal of the Federal Council of University Staff Associations in Australia). Contains articles of current interest about the problems of the Australian universities.

*The Australian Journal of Education* (editor, W. F. Connell, for the Australian Council for Educational Research, Melbourne) and *The Australian Journal of Higher Education* (formerly *The Educand*, Faculty of Education, University of Western Australia), contain articles on higher education, including the universities.

*Adult Education in Australia*. Fred Alexander. (Cheshire, Melbourne, 1959). A short critical account of past and present trends in Australian adult education.

*The Development of Universities in Australia*. W. F. Connell. (In *The Yearbook of Education*, Evans

- Bros., London, 1959). A critical article on the developmental and educational problems of the universities.
- The Humanities in Australia: A Survey with Special Reference to the Universities*. Edited by A. Grenfell Price. (Angus and Robertson, Sydney, for the Australian Humanities Research Council, 1959). Reviews from the viewpoints of the humanities the past and present history of the universities.
- Psychological and Educational Bases of Academic Performance*. C. Sanders. (Australian Council for Educational Research, Melbourne, 1961). An experimental attempt to isolate some of the basic factors in academic performance in the Australian environment.
- Reports and statistical information:
- Report of the Committee on Australian Universities* (Commonwealth Govt. Printer, Canberra, Sept. 1957). Report of the committee, under the chairmanship of Sir Keith Murray, on the function of university education and the post-war problems of the Australian universities.
- Report of the Committee Appointed to Survey Secondary Education in New South Wales*. (Govt. Printer, Sydney, 1958).
- Report of a Conference on University Education, July 6-8, 1960*. (Australian Vice-Chancellors' Committee, Melbourne, 1960). Reports conference findings based on research into some of the post-war problems of Australian university education, including the problems of student success and failure (restricted circulation).
- Report of the Australian Universities Commission on Australian Universities, 1958-1963* (Commonwealth Govt. Printer, Canberra, Oct. 1960). The first report of the commission reviews progress since the report of the Murray committee and makes recommendations for the triennium 1961-63.
- Adult Education in Australia*. Bulletin No. 30 (Commonwealth Office of Education, Sydney, 1957).
- Agricultural Education in Australia*. Bulletin No. 23. (Commonwealth Office of Education, Sydney, 1959).
- [Australian] University Statistics, 1960. Part I, Staff, Students and Degrees Conferred; Part II, Libraries and Finance*. (Bureau of Census and Statistics, Canberra, 1961).
- Education in Australia*. Bulletin No. 20 (Commonwealth Office of Education, Sydney, 6th edition, 1961).
- External Tution by Australian Universities*. Bulletin No. 21. (Commonwealth Office of Education, Sydney, 3th edition, 1962).
- Feet of Universities and Residential Colleges in Australia*. (Commonwealth Office of Education, Sydney, 6th edition, 1962).
- Health Services in Schools and Universities*. Bulletin No. 12. (Commonwealth Office of Education, Sydney, 5th edition, 1962).
- Higher Education in Australia: A Directory of Courses*. (Commonwealth Office of Education, Sydney, 3rd edition, 1962).
- Matriculation Requirements of Australian Universities*. Bulletin No. 33 (Commonwealth Office of Education, Sydney, 3rd edition, 1962).
- Secondary School Examinations in Australia*. Bulletin No. 25 (Commonwealth Office of Education, Sydney, 1958).
- Some Opportunities for Post-Graduate Study at Australian Universities*. (Commonwealth Office of Education, Sydney, 1961).
- Technical Education in Australia*. Bulletin No. 31. (Commonwealth Office of Education, Sydney, 1958).

## DIRECTORY TO SUBJECTS OF STUDY

**FIRST DEGREE COURSES, ETC.** The table on pp. 20-21 shows the main courses and subjects of study in the Australian universities. The symbol  $\nabla$  is used to indicate major courses,  $\pm$  those studied for two or three years for a bachelor degree. The symbol  $\checkmark$  indicates minor courses forming part of the course for a bachelor degree. Diploma courses, which are referred to below, are not included in the table.

Newcastle and Wollongong university colleges, and the Broken Hill division of the university, prepare students for degree and diploma courses of the University of New South Wales (see pp. 74-77). Similarly, the University College of Townsville prepares students for courses of the University of Queensland (see p. 86).

**HIGHER DEGREES** The PhD is awarded by the universities as follows. *Adelaide*: in agriculture, architecture, arts, economics, engineering,

law, medicine, science. *Australian National University*: in each of the research schools of the institute of advanced studies and in departments of the school of general studies. *Melbourne*: in all faculties except music. *Mowbray*: in all faculties. *New England*: in all faculties. *New South Wales*: in applied science, architecture, arts, commerce, engineering, science. *Queensland*: in all faculties. *Sydney*: in agriculture, architecture, arts, dentistry, divinity, economics, engineering, medicine, science, veterinary science. *Tasmania*: in arts, engineering, science. *Western Australia*: in agriculture, arts, dental science, education, engineering, medicine, science.

**DIPLOMA AND CERTIFICATE COURSES.** New England and Western Australia do not award subgraduate diplomas although the latter co-operates in the award of several diplomas by outside bodies. Other universities award diplomas

at subgraduate and postgraduate levels and some also co-operate in the award of diplomas by outside bodies. The two courses in which diplomas are mainly postgraduate are education and medicine. The University of New South Wales offers postgraduate diplomas in certain technological fields as well as in librarianship.

**Education.** Awarded by Adelaide, Melbourne, New England, New South Wales (Newcastle University College), Queensland, Sydney, Tasmania and Western Australia. Subgraduate awards are also made by Adelaide, Queensland and Tasmania.

**Medicine.** Melbourne and Sydney award diplomas in anaesthesia, diagnostic radiology, gynaecology-obstetrics, laryngology, ophthalmology (also Queensland), psychological medicine (also Queensland), public health, therapeutic radiology. Sydney also awards diplomas in clinical pathology, dermatological medicine and tropical medicine and hygiene.

Other diploma or certificate courses.

**Accountancy.** Queensland. **Administrative Science.** Sydney. **Agricultural Chemistry.** Sydney. **Agricultural Economics.** Sydney. **Agricultural Entomology.** Sydney. **Agricultural Genetics.** Sydney. **Agricultural Microbiology.** Sydney. **Agricultural Science.** Sydney. **Agribusiness.** Melbourne. **Animal Husbandry.** Sydney. **Anthropology.** Sydney. **Architecture.** Melbourne. **Arts and Education (AUE).** Adelaide. **Building.** New South Wales\*. **Clinical Psychology.** Western Australia. **Coal and Min-**

**eral Processing.** New South Wales. **Commerce.** Queensland. **Dairy Husbandry.** Sydney. **Dietetics.** Melbourne. **Diversity.** Queensland. **Educational Administration.** New England. **Educational Psychology.** Queensland, Western Australia. **Food and Drug Analysis.** New South Wales. **Food Technology.** New South Wales. **Fuel Science.** New South Wales. **Industrial Engineering.** New South Wales. **Industrial Engineering.** New South Wales. **Journalism.** Melbourne, Queensland. **Librarianship.** New South Wales. **Mine.** Adelaide, Melbourne. **Numerical Analysis and Automatic Computing.** Sydney. **Occupational Therapy.** Queensland. **Optometry.** Adelaide\*, Melbourne\*, Western Australia\*. **Plant Pathology.** Sydney. **Pharmacy.** Adelaide, Melbourne\*. **Physical Education.** Adelaide, Melbourne, Queensland, Tasmania, Western Australia\*. **Physiotherapy.** Adelaide, Melbourne\*, Queensland, Western Australia\*. **Poultry Husbandry.** Sydney. **Psychology.** Melbourne, Sydney. **Public Administration.** Adelaide, Melbourne, Queensland, Tasmania. **Public Health Dentistry.** Sydney. **Quantity Surveying.** New South Wales\*. **Social Studies or Social Work.** Adelaide, Melbourne, New South Wales, Queensland, Sydney. **Speech Therapy.** Queensland. **Sugar Science.** Queensland. **Sugar Technology.** Queensland. **Teaching and Training of Subnormal Children.** Queensland. **Town and Country Planning.** Melbourne, Sydney. **Wood Technology.** New South Wales.

For Table of First Degree courses, see overleaf

## STATISTICS

[Sources: Bureau of Census and Statistics, Canberra and Commonwealth Office of Education]

**TOTAL STUDENT ENROLMENTS IN 1960** (women students in brackets) were: For higher degrees, 2771 (363). For bachelor degrees, 38,880 (8883) including: agriculture, 870 (74); architecture, 938 (86); arts, 12,126 (5450); building, 26; dentistry, 797 (71); divinity, 10; economics-commerce, 5059 (388); education, 685 (130); engineering, 3669 (2); forestry, 79; law, 2257 (364); medicine, 4821 (730); music, 171 (121); pharmacy, 332 (118); physiotherapy, 12 (9); science, 6920 (1378); social studies, 29 (26); technology, 482; veterinary science, 485 (36). **Diplomas postgraduate**, 1309 (487) including 1018 (401) enrolled for DipEd. **Diplomas subgraduate**, 6898 (1430) including architecture, 409 (12); arts and education, 522 (209); engineering, 1744; pharmacy, 1020 (351); physical education, 249 (153); public administration, 353 (9); science, 1650 (97); social studies, 245 (176); others, 686 (333). **Certificates**, 1786 (473). **Miscellaneous**, 2688 (1018). Total gross enrolment of students, 54,332 (men, 41,678; women, 12,654), less correction for double enrolments, etc., 532 (men,

293; women, 259), leaving 53,780 net (men, 41,385; women, 12,395). The gross total enrolment included 16,691 part-time students (men, 12,517; women, 4174) and 5497 external students (men, 4329; women, 1168).

**NEW ADMISSIONS IN 1960.** The total gross enrolment of new students was 15,898 (men, 11,396; women, 4502). The net enrolment was 15,833 (men, 11,364; women, 4469).

**OVERSEAS STUDENTS IN 1961.** Total enrolments (men students and graduate students in brackets): Afghanistan, 1 (m 1, gr. 0); Africa, 21 (m 19, gr. 7); America, 50 (m 35, gr. 24); Borneo/Brunei/Sarawak, 137 (m 118, gr. 5); Burma, 27 (m 19, gr. 16); Cambodia, 1 (m 1, gr. 0); Ceylon, 13 (m 12, gr. 4); China, 4 (m 3, gr. 0); Europe, 7 (m 7, gr. 6); Fiji, 115 (m 102, gr. 7); Hong Kong/Macao/Formosa, 549 (m 472, gr. 25); India, 66 (m 65, gr. 40); Indonesia, 174 (m 156, gr. 50); Japan, 4 (m 2, gr. 3); Korea, 5 (m 4, gr. 3); Malaya, 1143 (m 970, gr. 12); Middle East, 7 (m 7, gr. 3); Nauru, 2 (m 2, gr. 0);

[continued on p. 22]

\* Awarded by outside bodies with the co-operation of the universities concerned

AUSTRALIA



*Note*—Except for Monash University, which began teaching in 1961, each of the universities named below French, geology, history, mathematics, philosophy, physics, psychology, and zoology (or biology). Monash University, history, mathematics, philosophy, physics and politics

Degree Subject or Course (For an explanation of the symbols used, see p. 18)	Adelaide	Australian National	McMaster	Monash	New England	New South Wales	Queensland	Sydney	Tasmania	Western Australia
Accountancy	✓	✓	✓			✓	✓	✓	✓	✓
Agriculture or Rural Science <sup>1</sup>	✓		✓		✓		✓	✓		✓
Agric. Chemistry	✓						✓	✓		
Agric. Economics	✓	✓			✓		✓	✓		✓
Anatomy	✓		✓	✓		✓	✓	✓		✓
Anthropology							✓	✓		✓
Applied Science	✓		✓				✓			
Archaeology								✓		
Architecture	✓		✓			✓	✓	✓		
Australian Literature	✓	✓	✓		✓	✓	✓	✓	✓	✓
Bacteriology or Microbiology	✓		✓		✓	✓	✓	✓		✓
Biochemistry	✓		✓	✓	✓	✓	✓	✓		✓
Building Science or Technology	✓		✓			✓				
Chemical Technology	✓					✓	✓			
Chemistry (Applied)						✓	✓		✓	
Child Health	✓						✓	✓		✓
Chinese		✓	✓					✓		
Commerce			✓			✓			✓	✓
Criminology			✓					✓		
Dental Science or Surgery	✓		✓					✓		✓
Divinity/Biblical Studies							✓	✓		
Economic History	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Education <sup>2</sup>	✓		✓		✓	✓	✓	✓	✓	✓
Engineering:										
Aeronautical						✓		✓		
Agricultural			✓							
Chemical	✓		✓	✓		✓	✓	✓		
Civil, Electr., Mech.	✓		✓	✓		✓	✓	✓	✓	✓
Electronic	✓						✓			
Industrial			✓			✓	✓			
Metallurgical	✓		✓							
Mining	✓		✓			✓	✓	✓		✓
Fine Arts			✓							
Food Technology						✓				
Forestry <sup>3</sup>	✓		✓		✓		✓	✓	✓	✓

<sup>1</sup> Various courses are taught at the universities under the heading of agriculture (see also Geology). Rural science is taught at New England.

<sup>2</sup> Degree courses in education are either postgraduate or undergraduate.

<sup>3</sup> Taught in association with independent forestry schools, especially the Australian Forestry School, Canberra.

## STUDY (see p 18)—TABLE OF FIRST DEGREE COURSES

provides major, bachelor degree courses, in: botany (or biology), chemistry, classics, economics, English, University has started major, bachelor degree courses, in: biology, chemistry, economics, English, French,

Degree Subject or Course (For an explanation of the symbols used, see p 18)	Adelaide	Australian National	Melbourne	Monash	New England	New South Wales	Queensland	Sydney	Tasmania	Western Australia
Fuel Technology						✓				
General Science						✓		✓		
Genetics <sup>1</sup>	✓	✓			✓		✓	✓		✓
Geography	✓	✓	✓		✓	✓	✓	✓	✓	✓
German	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
History and Methods of Science		✓	✓			✓	✓			
Humanities and Social Sciences				✓		✓				
Indonesian		✓	✓					✓		
Industrial Arts						✓				
Industrial Relations		✓	✓			✓		✓		✓
Italian			✓					✓		✓
Japanese		✓						✓		
Law	✓	✓	✓					✓	✓	✓
Malayan Studies								✓		
Mathematical Physics	✓	✓								
Medicine—Surgery	✓		✓	✓		✓	✓	✓		✓
Metallurgy <sup>2</sup>			✓			✓	✓	✓		✓
Misc <sup>3</sup>	✓		✓			✓	✓			✓
Naval Architecture						✓				
Pharmacology	✓		✓				✓	✓		
Pharmacy							✓	✓		
Physical Education							✓		✓	✓
Physiology	✓		✓	✓	✓	✓	✓	✓		✓
Political Science or Government	✓	✓	✓	✓		✓	✓	✓	✓	✓
Russian		✓	✓				✓			
Semitic Studies			✓					✓		
Social Studies or Social Work							✓			
Social Theory								✓		
Sociology					✓	✓	✓			
Statistics <sup>2</sup>	✓	✓	✓	✓	✓	✓	✓		✓	✓
Surveying	✓		✓			✓	✓		✓	✓
Textile Technology						✓				
Veterinary Science			✓				✓	✓		
Wool Technology						✓				

<sup>1</sup> Minor courses are usually provided in agriculture.

<sup>2</sup> Metallurgy often forms part of the course in mechanical engineering (see also Engineering, Metallurgical).

<sup>3</sup> At Tasmania appropriate passes in an outside examination enable candidates to be credited with a unit of misc towards an arts degree.

<sup>4</sup> Courses in statistics may be classified under (a) general, (b) mathematical, and (c) economic. Most universities provide more than one course in statistics. Melbourne and Sydney give a broad coverage. Adelaide provides major courses in mathematical statistics and economic statistics. New South Wales gives two major courses including economic statistics.

Nepal, 2 (m. 2, gr. 0); New Caledonia, 1 (m. 0, gr. 0); New Zealand, 150 (m. 144, gr. 40); Pacific Islands, 5 (m. 4, gr. 0); Pakistan, 29 (m. 26, gr. 13); Papua/New Guinea, 62 (m. 48, gr. 8); Philippines, 34 (m. 24, gr. 18); Samoa, 7 (m. 6, gr. 1); Singapore, 493 (m. 419, gr. 17); Tahiti, 1 (m. 1, gr. 0); Thailand, 68 (m. 57, gr. 22); Tonga, 13 (m. 12, gr. 0); U.K., 36 (m. 30, gr. 26); Vietnam, 43 (m. 41, gr. 4). Total. 1272 (m. 1009, gr. 371). *Notes.* of the 371 graduates 309 were men. *Enrolments in the arts and social sciences* (men students in brackets). Africa, 2 (1); America, 13 (6); Barnes, etc., 45 (34); Burma, 4 (4); Cambodia, 1 (1); Ceylon, 5 (5); China, 3 (2); Europe, 1 (1); Fiji, 54 (47); Hong Kong, etc., 140 (99); India, 4 (4); Indonesia, 41 (35); Japan, 1 (0); Korea, 2 (2); Malaya, 330 (258); Middle East, 1 (1); Nauru, 1 (1); Nepal, 0 (0); New Zealand, 7 (5); Pacific Islands, 2 (1); Pakistan, 1 (1); Papua, etc., 28 (19); Philippines, 7 (5); Samoa, 2 (1); Singapore, 175 (139); Thailand, 21 (18); Tonga, 8 (7); U.K., 6 (5); Vietnam, 12 (11). Total. 919 (713). *Enrolments in the sciences and applied sciences:* these can be obtained by subtraction. *Enrolments under the Colombo Plan.* Barnes, etc., 55; Burma, 28,

Cambodia, 1; Ceylon, 8; India, 6; Indonesia, 116; Malaya, 115; Nepal, 2; Pakistan, 17; Philippines, 27; Singapore, 36; Thailand, 40; Vietnam, 45. Total. 496

*DEGREES AWARDED in 1960.* Total awards (higher degrees in brackets). *Agriculture* BAgrSc or BScAgr or BAgr, 162 (19). *Architecture* BArch, 74 (3). *Arts* BA, 1338 (56). *Dentistry* BDS or BDS, 128 (20). *Economics-Commerce* BEc or BCom, 316 (10). *Education* BEd, 106 (16). *Engineering* BCE or BE(Civil), 146; BEE or BE(Elec), 132; BMechE or BE(Mech), 93; BME or BE(Mining), 26; BMetE or BE(Met), 7; BChemE or BE(Chem), 27; BE(MetChem), 8; BE(AeroEng), 9; BAgrE, 2; BE(Arch), 2; BS(Sci), 7, higher degrees, 43, total, 502 (43). *Law* LLB, 242 (4). *Medicine* MB BS, 438; BPhov, 9, higher degrees, 19, total, 466 (19). *Musical Music* BSc, 847; BSc(For), 16; BAppdSc, 16; BSc(Med), 17; higher degrees, 197, total, 1093 (197). *Technology* BTech, 57. *Veterinary Science* BVSc, 48 (6). Grand total. 4577 (men, 3580; women, 997). Higher degrees included in total. 393

# UNIVERSITY OF ADELAIDE\*

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REGISTRAR—V. A. EDGECOCK, BA

LIBRARIAN—W. A. COWAN, MA NZ., BA Lond

## TEACHING STAFF

[1—Part-Time]

<b>Agriculture</b> , see Waite Agric. Res. Inst., below		Roy, A. B., DSc Edin	St. Lectr.
<b>Anatomy</b>		Neville, Margaret E. S., BSc Melb., PhD Leeds	Lectr.
Abbas, A. A., MD DSc Syd., PhD Lond, FRACP	Elder Prof.	Koch, D. B., PhD	Lectr.
Packer, A. D., MSc MD	Reader	4 Demos, 1 Tutor†	
Van Deel, J. H. M. G., MD Brussels	Sr. Lectr.	<b>Botany</b>	
Barbour, R. A., MB BS	Sr. Lectr.	Robertson, R. N., DSc Syd., PhD Camb., FRS, FAA	Prof.
Messent, P. W. S., MB BS	Lectr.	Womersley, H. B. S., DSc	Reader
Reverbeide, J. G., MB BS	Lectr.	Riches, J. P. R., MA PhD Camb	Sr. Lectr.
Tulkin, R. S.	Lectr.	Martin, P. G., PhD	Sr. Lectr.
(Histol.) Lectr.		Lange, R. T., PhD W. Aust.	Lectr.
Schneider, Judith, BSc	(Histol.) Sr. Demr	Pitman, M. G., PhD Camb	Lectr.
<b>Animal Ecology</b> , see Zool.		Eardley, Constance M., MSc	Systematic Botanist
<b>Animal Products</b> , see Animal Products Res. Foundation, below		Wollaston, Elise M., AUA BSc	Sr. Demr.
<b>Architecture</b>		Shepley, Estelle A., MSc	Sr. Demr.
Jensen, R. A., BA Arch Lit., FRIBA	Prof.	Jackman, Margaret E., BSc	Sr. Demr.
Herbert, G., MArch DipTP Rand	Reader	5 Demos	
Heekings, H. N., DipArch	Sr. Lectr.	<b>Chemistry, Organic</b>	
Kendrick, J. D., BScTech Manc	Sr. Lectr.	Budger, G. M., MSc Math., PhD Lond., DSc Glas., FRIC, FAA	Prof.
Hippen, J. D., BArch Melb.	Sr. Lectr.	Rodda, H. J., PhD Camb, MSc	Reader
Van Zyl, F. D. W., BArch Cape T	Sr. Lectr.	Clark-Lewis, J. W., DSc Lond., BPharm	Reader
Schott, T., MAA R.Acad., Copenhagen	Lectr.	PhD Natl., FRIC	Reader
3 Lectrs.†		Lewis, G. E., PhD	Sr. Lectr.
<b>Australian Linguistics</b> , see Bd. for Anthropol. Res., below		Beckwith, A. L. J., BSc W. Aust., DPhil Oxon	St. Lectr.
<b>Biochemistry and General Physiology</b>		Sasse, W. H. F., PhD	Lectr.
Mitchell, Sir Mark L., MSc Camb	Prof.	Graham, G. E., MSc NZ., PhD Camb	Lectr.
Holdsworth, E. S., PhD Leeds, FRIC	Reader	Jones, R. A., BA BSc Oxon., PhD Camb	Lectr.
		Mossy-Westropp, R. A., MSc Syd., PhD Manc	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Spotwood, T. McL., MSc *Tas.*, PhD  
: *Demar*

Lectr.

### Chemistry, Physical and Inorganic

Jordan, D. O., DSc *Land.*, FRIC  
West, B. O., PhD *Comb & Adol.*  
Urwin, J. R., PhD  
Dunlop, P. J., BSc *W.Aust.*, PhD *W.A.*

Angas Prof

Reader

Sr. Lectr.

Sr. Lectr.

Kennedy, S. W., PhD *Belf*

Lectr.

Kurucsev, T., PhD

Lectr.

Bell, T. N., PhD *Durk.*

Lectr.

Mastin, M. L., BA BSc DipEd

Lectr.

Coates, J. H., BSc *Notr.*, PhD

Lectr.

Diamantis, A. A., MSc *Syd.*, DIC,PhD *Land*

Lectr.

Steel, B. J., BSc *W. Aust.*, PhD *N.E.*

Lectr.

Laurence, G. S., MSc *W. Aust.*, PhD *Leeds*

Lectr.

Sheldom, J. C., PhD *Notr.*

Lectr.

: *Demar*

### Classics and Comparative Philology and Literature

Tierskies, J. R., MA *Canb.*

Hughes Prof.

Corney, E. R., MA

Sr. Lectr.

French, A., MA *Canb.*

Sr. Lectr.

Heates, D. A., MA *Canb.*

Lectr.

Garson, R. W., BA *Syd.* & *Canb.*

Lectr.

Hassell, Kathleen L., MA

Sr. Tutor

### Commerce

Mathews, R. L., BCom *Melb.*

Prof.

Bennet, J. W., BCom *Melb.*

Sr. Lectr.

James, K. G., BCom *Melb.*

Lectr.

Terrell, R. D., BEc

Lectr.

: Tutor

### Dentistry, see below

### Economics

Karmel, P. H., BA *Melb.*, PhD *Canb.*

Prof.

: : :

Gollin Prof.

Hirst, R. R., MEc

Reader

Russell, E. A., BA BCom *Melb.*,MA *Canb.*

Reader

Jarrett, P. G., BScAgr *Syd.*, PhD *Iana*

(Agric. E.) Reader

Hudson, H. R., BEc *Syd.*

Sr. Lectr.

Dillon, J. L., BScAgr *Syd.*, PhD *Iana*

(Agric. E.) Sr. Lectr.

Wallace, R. H., BCom *Melb.*, BPhil *Oxon*

Sr. Lectr.

Harcourt, G. C., MCom *Melb.*,PhD *Canb.*

Lectr.

Barton, A. D., BCom *Melb.*

Lectr.

Whitehead, D. H., BA *Oxon*

Lectr.

Hancock, K. J., BA *Melb.*, PhD *Land*

Lectr.

Brunt, Maureen D., BCom *Melb.*

Lectr.

Wright, J. C. G., BCom *Melb.*

Lectr.

Powell, A. A. L., BScAgr *Syd*

Lectr.

Polasek, M., PhD *Duke*, BEc

Lectr.

Schneider, M. P., MSc *Canb.*, BA

Res Fellow

: Tutors

### Education

Neal, L. F., BA DipEd *Land*

Prof

Rae, E., MA *Oxon*, BEd *Q'ld*

Lectr.

Toomey, D. M., BA *Mase.*, DipEd *Leeds*

Lectr.

Mayne, F., PhD *Land*

Lectr.

Newnam, P. A., BA *Land*

Lectr.

Andrew, R. V., DLitt BEd *Patchef*

Lectr.

Caggs, R. S., BSc BA DipEd

Lectr.

Martin, R. K., BEd *Melb.*, BA

Lectr.

McQueen, G. H., MB BS *Melb.*, DPH

Lectr.

DTM *Syd.*

Lectr.

Milne, Anne J., BA DipEd

Lectr.

### Engineering, Civil

Bull, F. B., MA *Canb.*, BSc *Land*

Prof

Farrent, T. A., BSc BE

Reader

Sved, G., DipMechEng *Eng*

Reader

Robinson, A. J., BSc *Melb.*

Sr. Lectr.

Culver, R., BSc BE

Sr. Lectr.

Tyler, D. H., BE

Sr. Lectr.

Arnold, M., BScEng *Natal*

Sr. Lectr.

Brooks, D. S., ME

Lectr.

West, G. S., BSc(Eng) *Land*.

Lectr.

Paukhill, D. L., MAsc *Br Col*

Lectr.

### Engineering, Electrical

Willoughby, E. O., MA BEE BCE *Melb.*

Prof

Ellsworth, G., BSc(Eng) *Land*.

Reader

Rose, G. A., BE

Sr. Lectr.

Kaneft, S. D., PhD

Sr. Lectr.

Allen, M. W., PhD *Syd.*, BE

Sr. Lectr.

Pawsey, D. C., BEE *Melb.*

Sr. Lectr.

Smith, B. H., BE

Lectr.

Karoly, G., BE

Lectr.

Olesnicki, R. M. A., DipEng *Leons*

Lectr.

Vawser, K. D., BE

Lectr.

Staples, R. W. F., BE

Lectr.

### Engineering, Mechanical

Davis, H. H., BSc BE *Syd.*, PhD *Canb.*

Prof.

Barden, R. G., BSc *Land*, PhD

Reader

Doble, W. D., BE *Syd*

Sr. Lectr.

Norrie, D. H., BE BSc *N.Z.*

Sr. Lectr.

Mannan, J., PhD *Burs.*

Sr. Lectr.

Shaw, A., BA *Shoshyn*, BME *N.Y.*

Sr. Lectr.

Thompson, A. G., BE *N.Z.*

Sr. Lectr.

Fowler, J. H., BE

Lectr.

King, R. B., BSc *Syd.*

Lectr.

Dyer, J. R., BE *Bec*

Lectr.

Eink, D. L., BE

(Indust. E.) Lectr.

### Engineering, Metallurgical and Chemical

Sponner, E. C. R., DPhil *Oxon*, DSc *Tas.*

Prof.

FRIC

Tait, R. W. F., PhD *Burs.*

Reader

Penman, T. O., BSc(Eng) *Land*.

Sr. Lectr.

Smith, T. N., BE *Syd.*

Lectr.

### English Language and Literature

Horne, C. J., MA DipEd *Melb.*, MA

July Prof.

BLitt *Oxon*

Reader

Davies, M. B., MA *Oxon*.

- Elliott, B. R., MA *IF Aust*, DLet  
(Aust Lat) Reader
- Elliott, R. W. V., MA *St And* Reader
- Dutton, G. P. H., BA *Oxon* Sr Lectr.
- Colmer, J. A., MA *Oxon*, PhD *Leeds* Sr Lectr.
- Mares, F. H., BA *Durh*, BLitt *Oxon* Sr Lectr.
- Haefliger, P. C., MA *Oxon*, PhD *Leeds* Lectr.
- Johnson, R. V., MA PhD TD *Manc* Lectr.
- Rudrum, A. W., BA *Leeds*, PhD *Noti* Lectr.
- Gibbs, A. M., BA *Melb.* & *Oxon* Lectr.
- Magarey, K. H., MA *Oxon*, BA Lectr.
- Meledath, P., MA *DipEd Oxon* Lectr.
- Smith, Sheila A., MA *Leeds* Lects.
- Slade, A. M., MA *Bent* Lectr.
- 1 Tutor
- French**
- Cornell, J. G., MA *Melb.*, L&L *Paris* Prof
- Focsyth, E. C., DU *Paris*, BA *DipEd* Sr Lectr.
- Souillac, H., L&L *Paris* Lectr.
- Ellis, B. W., DU *Paris*, BA Lectr.
- David, Mrs. Andrée M., Dupl'd'ÉtSup *Paris* Sr Tutor
- Genetics**
- Bennett, J. H., MA BSc *Melb.*, PhD *Cambr* Prof.
- Mayo, G. M. E., PhD Sr Lectr.
- Mayo, Mrs. Marjorie J., PhD *Cambr*, MSc *Melb.* Sr Lectr.
- Hayman, D. L., PhD Lectr.
- 1 Demr
- Geography**
- Lawton, G. H., MA *Oxon*, BEd *Melb* Prof
- Mason, B., BSc Sr Lectr.
- Tisdale, C. R., MSc *Brist*, PhD *McG*. Sr Lectr.
- Marshall, Ann, MSc *Melb* Lectr.
- Griffin, T. L. C., MA *Wales*, FRMetS Lectr.
- Williams, M., PhD *Wales* Lectr.
- Wace, N. M., BA *Oxon*, PhD *Belf* Lectr.
- Hafford, R. K., BEc Lectr.
- 1 Tutor, 2 Demrs
- Geology and Mineralogy**
- Alderman, A. R., PhD *Cambr.*, DSc, FGS Prof.
- Glaesener, M. F., PhD *Vienne*, DSc *Melb.*, FGA (Palaeontol) Reader
- Kleeman, A. W., PhD Sr Lectr.
- Oliver, R. L., MSc *N.Z.*, PhD *Gamb.* Sr Lectr.
- Jones, J. B., BSc *Q'ld*, PhD *Wisc* Lectr.
- Talbot, J. L., BA *Cambr.*, MA *Calif.* Lectr.
- Daily, B., PhD Lectr.
- Nesbitt, R. W., PhD *Durh*, FGS Lectr.
- McBriar, Elizabeth M., BSc *Melb* Sr. Demr
- 3 Demrs
- Geology, Economic**
- Rudd, E. A., AM *Hawke*, BSc Prof.
- Whittle, A. W. G., MSc Sr. Lectr.
- German**
- Coghlan, B. L. D., PhD *Bonn* Prof.
- Silskus, H. J., BA *Rome* Lectr.
- Livingstone, R. S., BA *Cambr* Lectr.
- Hocking, B. D. W., BA Lectr.
- 2 Tutors
- History**
- Streeton, H., MA *Oxon*. Prof
- Inglis, K. S., MA *Melb.*, DPhil *Oxon*. Reader
- Kent, H. S. K., MA *N.Z.*, PhD *Cambr* Sr Lectr.
- Woodroffe, Kathleen, MA Sr. Lectr.
- Rudd, G. F., MA *Cambr*, PhD *Leeds*, FRHist Sr. Lectr.
- Phillips, W. A. P., MA *Oxon* Sr Lectr.
- Gickchrist, J. T., PhD *DipEd Leeds* Lectr.
- Jack, M. A., MA *Oxon* Lectr.
- Wilson, T. G., MA *N.Z.*, DPhil *Oxon* Lectr.
- Kinloch, H. G., MA *Cambr*, PhD *Fair* Lectr.
- Mandle, W. F., BA *Oxon*. Lectr.
- 2 Tutors
- History and Political Science**
- Duncan, W. G. K., MA *Syd*, PhD *Leeds*. Prof.
- Reid, G. S., BCom *Melb*, PhD *Leeds*. (Govt & Pub Adm'n) Sr Lectr.
- Reid, R. L., MA (Pol Theory) Lectr.
- Lelfer, M., BA *Edg.*, PhD *Leeds*. Lectr.
- Hetherington, R., BA Sr. Tutor
- Law**
- O'Connell, D. P., BA LLB *N.Z.*, Bonython Prof.
- PhD *Cambr* Reader
- Castles, A. C., LLB *Melb*, JD *Chc.* Sr Lectr.
- Kearns, J. I., LLB *Melb* Sr Lectr.
- Howard, C., LLB *Leeds*. Sr Lectr.
- Lucke, H. K., DrJus *Cologne*, MCJ *N.Y.*, LLB Sr Lectr.
- Legue, C. J., MA *Cambr* †Sr Lectr.
- †Lecturers
- Walters, G. H., LLB (Procedure)
- Hunter, B. O., LLB (Equity)
- Wells, W. A. N., BA BCL *Oxon*, LLB (Property)
- McEwin, J. N., LLB (Legal Ethics)
- Bray, J. J., QC, LLB (Roman L.)
- Mitchell, Roma F., LLB (Family)
- Sangster, A. K., LLB (Tortious)
- Norman, H. A., LLB (Local Govt L.)
- Portus, J. H. (Indust L.)
- Isachsen, O. C., LLB (Comm'l L.)
- Richards, D. L., LLB (Comm'l L.)
- 2 Tutors
- Mathematical Physics**
- Green, H. S., PhD *Leeds*, DSc *Edin*, FAA Prof.
- Hurst, C. A., BA BSc *Melb*, PhD *Cambr* Reader
- McCarthy, I. E., PhD Sr Lectr.
- Mathematics**
- Baines, E. S., BA *Cambr* & *Syd*, PhD *Cambr*, FAA (Pure M) Elder Prof
- Potts, R. B., DPhil *Oxon*, BSc (Appl. M.) Prof

Cannish, E. A., BAgSci Melb, DSc, FAA (MATHS Stats) | Prof  
 Szekeres, G., DipChemEng Bnd. Reader  
 Gray, M. C., BSc Sr Lectr  
 Brearley, M. N., BE IV Aust, BSc Syd., MA Camb, PhD Sr Lectr  
 Michael, J. H., PhD Sr Lectr  
 Kearns, R. G., BSc, FASA Sr Lectr  
 Darroch, J. N., MA Camb (MATHS Stats) Sr Lectr  
 Morris, K. W., BSc Lectr  
 Sanderson, J. G., MSc Lectr  
 Macneil, H. E., MSc Lectr  
 Hale, R. P., BA Camb, BSc Sr Tutor  
 3 Tutors, 1 Tutor

#### Medicine, see below

#### Microbiology

Ravley, D., MD PhD Lond. Prof.  
 Atkinson, Nancy, OBE, MSc Melb., DSc (Indust M) Reader  
 Collins, F. M., MSc Reader  
 Jensen, C. R., PhD Lond. Lectr  
 Pavallid, E. R. J., MB BS Lond. Lectr  
 3 Demos.

#### Mineralogy, see Geol.

#### Music, see also Eldes Conservatorium, below

Sheep, J., OBE, FRCM Eldes Prof  
 Hoerner, J. A., FRCO Sr Lectr  
 Peters, J. V., BMus Durb, MusD N.Z., FTCL, FRCO Lectr  
 Fashnast, H. Lectr  
 Holder, Alison J., MusBac | Lectr  
 1 Tutor

#### Pathology

Robertson, J. S., MB BS Syd., DPhil Oxon, FRACP MATHS Prof  
 Reid, R. T. W., MD Reader  
 Hodge, P. R., MB BS (Forensic P) Sr Lectr  
 Murray, K. D., MB BS Syd. Lectr  
 Lykke, A. W. J., MB BS Lectr  
 Mats, L. R., MB BS Lectr  
 Rice, J. P., MB BS Lectr  
 Rozenblat, M. A. M., MB BS Lectr

#### Pharmacology, see Physiol., Human

#### Pharmacy

Reynolds, B. L., BPharm Lond Sr Lectr.-in-Charge  
 Christie, B. J. F., PhD Lectr  
 Stock, B. H., AUA Lectr  
 McCarthy, R. C., AUA | Lectr

#### Philosophy

Senert, J. J. C., MA Glas., BPhil Oxon Hughes Prof  
 Finnis, M. M. S., BA Sr Lectr

Martin, C. B., BA Bston, PhD Camb.

Sr Lectr  
 Lectr.  
 Lectr.

Bradley, M. C., BPhil Oxon, MA

#### Physical Education

Apps, B. F. G., BA DipEd DPE Melb Sr Lectr.-in-Charge  
 Barwell, Elizabeth M. Lectr  
 Sedgwick, A. W., BA Bwn Lectr

#### Physics

Carver, J. H., MSc Syd, PhD Camb. Eldes Prof.  
 Tomlin, S. G., PhD Lond, FIP Reader  
 Fuller, G. R., BSc Sr Lectr  
 Kilford, W. G., PhD Sr Lectr  
 Sutton, D. J., PhD Sr Lectr  
 Medlin, E. H., PhD Sr Lectr  
 Briggs, D. H., MA PhD Camb Sr Lectr  
 Hille, M. I. G., BSc Sr Lectr  
 Bevan, A. R., BSc Lond, MSc Syd Lectr  
 Kempster, C. J. E., MA PhD Camb. Lectr  
 Lawrence, R., MSc Lectr  
 Euston, L. G., PhD Lectr  
 Bell, R. A., BSc Melb, PhD A.N.U. Lectr  
 Murray, E. L., BSc PhD Lectr  
 4 Demos

#### Physiology, General, see Biochem

#### Physiology, Human, and Pharmacology

Whelan, R. F., MD DSc Belf. Prof  
 Lappay, F., MD DPhil Vienna, DO Lond., DSc Reader  
 de la Lende, I. S., PhD Melb (Pharmacol) Reader  
 Keat, D. I. B., PhD Sr Lectr  
 Day, A. J., DPhil Oxon, MSc MD Sr Lectr  
 Dellow, P. G., BDS MB BS Lectr  
 McNally, J. N., BSc Lectr  
 Hodge, R. L., MB BS, MRACP Lectr  
 Gouldhurst, P. R. S., MB BS Lectr  
 Dennis, Barbara J., MSc Sr Demo  
 2 Demos

#### Physiotherapy

Casely, Elma G. Sr Lectr.-in-Charge  
 Hammond, Marie J., AUA Lectr  
 1 Tutor, 4 Lectrs, 1, 8 Tutors

#### Political Science, see Hist. and Pol. Sci.

#### Psychology

Loeves, M. A., MA PhD Camb. Prof.  
 Dienes, Z. P., PhD Lond, DipEd Lac. Reader  
 Lovibond, S. H., BA Melb, AUA PhD Sr Lectr  
 Brown, L. B., MA DipEd N.Z., PhD Lond. Sr Lectr  
 Gibbs, D. N., MA N.Z., PhD Lond. Lectr  
 Penny, R. E. C., BA Melb. Lectr  
 Glow, P. H., BA Melb, PhD Lond. Lectr

Houshades, L., BA *Theoretical*PhD *Leeds*

Lectr

Dalziel, F. R., PhD *Aberd*

Lectr

Winefield, A. H., BA *Leeds*

Lectr

**Social Studies**Brown, R. G., BA *Dip Soc Stud Melb.*MSS *Byu Mans*, PhD *Burai*

Sr Lectr - in-Charge

Norton, Margaret, BCom *Dip Soc Stud Melb.*MA *Cyr*

Lectr.

1 Tutor, 1 Tutor†

**Zoology**Rogers, W. P., MSc *W Aust*, DSc *Leeds*.

FAA

Prof

Andrewartha, H. G., DSc (Animal Ecol) Reader

Thomas, I. M., MSc *Wales*

Sr Lectr.

Edmonds, S. J., BA PhD

Sr Lectr

Satchell, G. H., BSc *Leeds*, PhD *Leeds*

Sr Lectr

Browning, T. O., BSc *Syd*, PhD

(Animal Ecol) Sr Lectr.

Duckhouse, D. A., PhD *Leeds*

Lectr.

Laws, D. F., MA *BD BSc N Z*,PhD *Wash*

Lectr

Warburg, M., MSc *Jernsolen*, PhD *Yale*

Res Fellow

Madge, P. E., PhD (Animal Ecol) Res Fellow

Angel, L., Madeline, MSc

Sr Demr.

6 Demr.

**DENTISTRY**(See also Anat., Biochem., Chem., Microbiol.,  
Pathol., Physiol and Zool., above)

Hosnell, A. M., FDSRCS (D. Sci.) Prof

Kirkwood, J., BDS *Syd*, DDS *Tw.*

FDSRCS

Lectr

Hughes, J. E., MB BS (Surg)† Lectr

McPhue, J. M., MB BS, MRACP

(Med)† Lectr.

Willoughby, R. G., MDS

(Principles of D. Practice)† Lectr

Bloomfield, A. J., BDS

(D. Mat Med &amp; Therapeutics)† Lectr

..... (Anesth)† Lectr &amp; Instr

Hedder, R., MD, MRCP (Med.)† Tutor

Dunstan, R. E., MB BS (Surg.)† Tutor

Brown, K. A., BDS (1st yr. students)† Tutor

Blandon, R. V., BDS Teaching Registrar

**Conservative Dentistry**Fanning, Elizabeth A., DDS *N Z*. Sr Lectr

9 Tutors†

**Crown and Bridge Work**Mount, G. J., BDS *Syd*† Lectr & Instr.**Dental Anatomy**

Brown, T., BDS Lectr.

**Dental Surgery and Pathology**Cian, J. A., BDSc *Qld*, DDS ReaderRadden, B. G., BDS *W Aust*, PhD *Leeds*.

FDSRCS

Sr Lectr

2 Tutors†

**Orthodontics**Begg, P. R., BDS *Melb.*, DDS

1 Tutor†

† Lectr.

**Periodontics**

Reade, P. C., BDS, FDSRCS

Lectr

**Prosthetic Dentistry**

Ratetti, M. J., MDS

Reader

Robertson, K. J., MDS

† Lectr

5 Tutors†, 2 Demr†

**MEDICINE**(See also Anat., Biochem., Bot., Chem., Microbiol.,  
Pathol., Phys., Physiol. and Zool., above)**Child Health**Maxwell, G. M., MD *Edin*, MRCP

McGregor Read Prof.

Reader

Elliott, R. B., MB BS, MRACP

Lectr.

Robertson, Evelyn F., MB ChB *Glas*

Lectr

5 Tutors†

**Medicine**Robson, H. N., MB ChB *Edin*, FRCPed,

FRACP

Mortlock Prof

Hazel, B. S., MD, FRACP Reader

Lander, H., MB BS, MRACP Sr Lectr.

Phear, D. N., MA MD *Camb*, MRCP Sr Lectr.

Kamha, R. J., BDS MB BS

Lectr

Wangel, A. G., MB BS

Lectr.

Deller, D. J., MB BS *Syd*, DPhil *Oxon*,

MRCP

Michell Res Fellow

Sengster, C. B., OBE, MD, MRCP,

FRACP

† Lectr

Boonin, J. M., MD, MRCP, FRACP

† Lectr

Buston, R. A., MB BS, MRCP

† Lectr

Southwood, H. M., BSc MD, MRACP

(Psychol. M.)† Lectr

Paxon, T. G., MD *Leeds*, MRCP

(Pulmonary TB.)† Lectr.

Sandison, A. G., MB BS Teaching Registrar

Tutors: 9 in Med, 2 in Infectious Dis,

1 in Clin Psychiatry

**Obstetrics and Gynaecology**Cox, L. W., MB ChB *N.Z.*, FRCS, FRACS

Prof

Podevian, L. O. S., MB BS *Syd*, MD

(Obstet.) Reader

Cox, R. I., PhD *Edin* (Endocrinol.) Reader

Ball, C. G., MB BS † Sr Lectr

Swain, I. H. F., MB BS *Syd*. † Sr Lectr

Munday, R. N., MB BS

Lectr

8 Tutors†



**Public Health and Preventive Medicine**

Woodruff, P. S., MD *Melb.*, DTM&H *Syd.*,  
MRACP †Lectr  
2 Demos †

**Studies in Humanities**

Harris, C. R. S., MA DPhil Oxon.,  
PhD *Prin* Reader  
1 Tutor †

**Surgery**

Jepson, R. P., BSc MB ChB *Manc.*, FRCS,  
FRACS Prof  
..... Reader  
Ogilby, L. J., MB BS, FRCS, FRACS Sr Lectr  
Jones, R. B., MB BS, FRCS †Sr Lectr  
Londes, A. H., MB BS, FRCS, FRACS †Lectr  
Barbour, J. R., MB MS, FRCS, FRACS †Lectr  
McEnchery, A. C., MB MS, FRCS,  
FRACS †Lectr  
Magarey, J. R., MB MS, FRCS, FRACS †Lectr  
Crompton, D. O., MB BS DO *Melb.*,  
FRACS (Ophthalm. Surg.) †Gosse Lectr.  
Cocks, A. S. de B., MB MS DLO, FRACS  
(Dis. of Ear, Nose & Throat) †Lectr.  
McKay, D. G., MB BS, FRCSed, FRACS  
(Surg. Dis. of Children) †Lectr  
Marshall, N. G., MB ChB *N.Z.*, DA, FFA  
(Anaesth.) †Lectr  
Leditschke, J. F., MB BS Teaching Registrar  
16 Tutors †

**Clinical Teachers**

Staffs of Royal Adelaide, Q. Elizabeth and  
Children's Hosps.

**ANIMAL PRODUCTS RESEARCH  
FOUNDATION**

Mareton, H. R., Hon. DSc *A.N.U.* & *Adel.*,  
FRS Chairman, Advisory Bd.

**ANTI-CANCER COMMITTEE**

Hansen, B. S., DSO, OBE, ED, MB BS  
Chairman of Ctee & Hon. Radiotherapist  
Worthley, B. W., BA MSc Sr Physicist  
Toone, M. J., BSc Physicist  
Parker, M. H., MSc Physicist  
Nicholls, R. L., BE *Syd* Physicist  
..... Asst. Physicist  
Morgan, Elma S., MB BS Neoplasm Registrar  
Diamond, Ruth, MB BS Cytio-Pathologist  
Vantale, Rosa W., PhD *Graz* Res. Fellow

**BOARD FOR ANTHROPOLOGICAL  
RESEARCH**

Stichow, T. G. H., MA  
Reader in Australian Linguistics

**ELDER CONSERVATORIO  
OF MUSIC**

Bishop, J., OBE, FRCM Dir.  
..... Teachers  
Johnston, P. (Speech Tg. and Drama)  
Holden, Alison, MusBac †(Aural Culture & Musical Appreciation)  
Good, J. G. †(Bassoon Ensemble Playing & Orchestral Class)  
Banc, A. †(Double Bass)  
Davies, L. (Ensemble Playing & Orchestral Class, Violin)  
Famhurst, H. (Ensemble Playing & Orchestral Class, Violin)  
Whitehead, Nora †(Violon, Viola)  
Cubben, D. †(Flute)  
Fry, S. †(French Horn)  
Jones, H. †(Harp)  
Post, N. †(Oboe)  
Howard, Barbara (Opera, Singing)  
Horne, J. A., FRCO  
(Musical Appreciation, Organ, Piano/forte)  
Peters, J. V., BMus *Dwa.*, MusD *N.Z.*,  
FRCO (Organ)  
Smith, R. (Percussion)  
Dossor, H. L. (Piano/forte)  
Leske, C. T., MusBac *Melb.* (Piano/forte)  
Williams, Brad †(Piano/forte)  
Matters, A. (Opera, Singing)  
Watson, R. (Singing)  
Limb, Diana †(Singing)  
Thomas, Nancy (Singing)  
Govenlock, J. C., MusBac †(Theory)  
Taylor, L. †(Trumpet)  
Bishop, J. D. †(Violoncello)  
Whitehead, J. (Violoncello)

**WAITE AGRICULTURAL RESEARCH  
INSTITUTE**

Melville, J., MSc *N.Z.*, PhD *Leid.* Du.  
..... Biometrist

**Agricultural Chemistry**

Morton, R. K., BScAgr *Syd.*, PhD *Canb.*,  
FAA Waite Prof  
Quirk, J. P., BScAgr *Syd.*, PhD *Leid.* (Soil Sci.) Reader  
Beat, R. J., DSc (Viol.) Reader  
Millard, Alison A., PhD *Syd.* (Plant Biochem.) Sr Lectr.  
Atkinson, M. R., PhD *Tar.* (Enzyme Chem.) Sr Lectr  
Jennings, A. C., BSc *Syd.* (Analys.) Sr Lectr.  
Greenland, D. J., MA DPhil Oxon. (Soil Sci.) Lectr.  
Lewis, D. G., MSc (Soil Chem.) Lectr.  
Gallus, H. P. C., MSc (Virus Chem.) Lectr.  
Symons, R. H., PhD *Melb.* (Virus Chem.) Lectr.  
Graham, Janet S. D., PhD *St. And.* (Protein Biochem.) Lectr.

Falconer, I. R., BSc *Nat.*, PhD *Aberd.*  
(Animal Biochem.) Lectr.  
Posner, A. M., PhD *Lond* (Soul Sci.) Lectr.

**Agronomy**

Donald, C. M., BScAgr *Syd.*, MAgSc

Black, J. N., MA DPhil *Oxon.* Waste Prof.  
Pinky, K. W., PhD *W. Aust.* Reader

(Plant Breeding & Genetics) Reader

(Agrostol) Sr. Lectr.

Barley, K. P. J., MAgSc *Melb.* Sr. Lectr.

Millington, R. J., MSc *Syd.*, PhD Sr. Lectr.

Allden, W. G., MA *Canb.*, MAgSc

(Animal Prod.) Sr. Lectr., Mortlock

Fellow

Knight, R., BSc *Lond.*, DipAgricSc *Canb.*,  
DTA *Tru.*

(Plant Breeding & Genetics) Sr. Lectr.

Powrie, J. K., BSc(Agric) *W. Aust.*, MSc

Symon, D. E., BAgSc (Bot) Sr. Lectr.

Silbury, J. H., MSc(Agric) *W. Aust.*

(Agrostol) Lectr.

Carter, E. D., BAgSc (Agrostol) Lectr.

Everitt, G. C., MSc *Wales*

(Animal Prod.) Lectr.

Sparrow, D. H. B., BSc *R'dg.*

(Plant Breeding & Genetics) Lectr.

Moore, K., BSc *Wales*

(Plant Breeding & Genetics) Lectr.

Cuppenier, J. A., MSc(Agric) *W. Aust.*

(Species Studies) Lectr.

Shepherd, K. W., BAgSc

(Wheat Genetist) Lectr.

Leach, G. J., BSc *R'dg.* (Crop Ecol.) Lectr.

**Entomology**

Waste Prof.

Lower, H. S. F., MSc Sr. Lectr.

Johnson, B., BScAgr *Syd.*, PhD *Lond.* Sr. Lectr.

Morgan, F. D., MSc *N.Z.*, PhD *Calif.* Sr. Lectr.

Doull, K. M., MAgSc *N.Z.* Lectr.

Mackay, D. A., MSc *W. Aust.*, PhD Lectr.

Miles, P. W., MSc *Rhodes.*, PhD *Canb.* Lectr.

Memo, J. M., BSc *Syd.*, PhD Lectr.  
Taylor, D. J., BSc *Wales*, DipAgricSc *Canb.*,  
DTA *Tru.* Lectr.  
Brookes, Helen M.

Asst. Systematic Entomologist

**Plant Pathology**

Plenty, N. T., PhD *Lond.*, MSc

Reader-in-Charge

Watcup, J. H., PhD *Canb.*, MSc *N.Z.*

(Microbiol.) Sr. Lectr.

Kerr, A., BSc *Edin.*, PhD Sr. Lectr.

Talbot, P. H. B., MSc *S.A.*, PhD *Lond.*

(Systematic Mycologist) Sr. Lectr.

Crowley, N. C., BScAgr *Syd.*, PhD Sr. Lectr.

Caster, M. V., MAgSc Lectr.

Clare, B. G., BSc *Q'ld.* Lectr.

Fisher, J. M., BScAgr *Syd.* (Nematol.) Lectr.

Vantaja, L. O., PhD *Helsinki*

(For. Pathol.) Lectr.

Franda, R. I. B., PhD *N.Z.* (Virol.) Lectr.

**Plant Physiology**

May, L. H., PhD *Lond.*, BSc

Reader-in-Charge

Marino, N. G., BA *Iowa*, PhD Sr. Lectr.

Paley, L. G., PhD *Iowa* Sr. Lectr.

Aspinall, D., PhD *Nott.* Lectr.

Coombe, R. G., PhD *Calif.*, MAgSc Lectr.

Edwards, G. R., MSc *Calif.*, BAgSc

(Hort.) Lectr.

**COMPUTING CENTRE**

Capon, I. N., PhD *Canb.*, BSc Dir.

Summons, D. W., DFC, BEc AUA Lectr.

Officer-in-Charge of Equipment

**ADULT EDUCATION**

Hely, A. S. M., MA BCom *N.Z.* Dir.

Crowley, D. W., MA *N.Z.*, PhD *Lond.* Asst. Dir.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar (Academic): H. E. Wesley  
Smith, BEd *Melb.*, DipEd *Oxon.*, BA. Asst.  
Registrar (Finance): W. Meiklejohn. Asst. Ac-  
countants: E. S. Wyatt, BEc AUA; A. D. Scott  
Chief Clerk: D. W. Wallis. Sr. Admin. Assts.:  
H. J. Buchan, BSc *Syd.*; L. N. Shaw, BSc *Syd.*;  
K. J. Farrer, BA(Econ) *Manc.*; J. T. Whelan,  
BSc; T. J. Somerville, BComm DipPubAdm  
N.U.I. Admin. Assts.: A. Hanson; E. G. King,  
BA *W. Aust.*; D. G. McKie, BA; A. P. Walker,  
BA; M. A. R. Lunn, BA *Syd.*; R. W. R.  
Scantlebury, A. P. Keane, BA. Statistics Officer:  
B. J. Holding, BEc. Staff Architect: G. J.  
Harrison, BArch *Syd.*. Asst. Architects: R. W.

Mutton; J. McG. Belford. Asst. to Vice-  
Chancellor: F. S. Hamblly, BEc. Asst. to Regis-  
trar: Alison E. Woodroffe, BA. Sec. of Bds. of  
Public Exams.: L. H. Dalziel, BA. Asst. Sec. of  
Bds. of Public Exams.: L. A. G. Wright. Sec.  
of Waste Agric. Res. Inst.: G. L. Gooden. Sec.  
of Elder Conservatorium: J. L. Porter. Dep.  
Librarian: E. H. Wilkinson, BA *Syd.*, MA *Chic.*  
Asst. Librarian: Margaret W. Sorrell, BA (Cata-  
loguing), Kerstin L. Andersen, BA (Readers'  
Services). Warden of Union: F. T. Borland,  
MA *Melb.*, DipEd *Edin.*. Sec. of Union: H.  
Svenley Smith. Asst. Sec. of Union: E. Brown  
Groot, BA.

## ASSOCIATED OR AFFILIATED INSTITUTIONS

**AQUINAS COLLEGE**, Montefiore Hill, North Adelaide, S.A. (tel. Adelaide 6 9944) Residential. Opened 1950. Under management of Roman Catholic Church, but open to men of all denominations. Rector—Very Rev Fr B. Buxton, BA MEd.

**LINCOLN COLLEGE**, Brougham Place, North Adelaide, S.A. (tel. Adelaide 6 8019). Residential. Opened 1952. Under management of Methodist Church, but open to men of all denominations. Master—Rev W. F. Hambley, MA BD MEd.

**ROSEWORTHY AGRICULTURAL COLLEGE**, Roseworthy, S.A. (tel. Roseworthy 2). Opened 1885. Affiliated for parts of BA&Sc courses for agric. students. Principal—R. I. Herriot, BA&Sc.

**ST ANN'S COLLEGE**, Brougham Place, North Adelaide, S.A. (tel. Adelaide 6 9078). Residential. Opened 1947. Open to women of all

denominations. Principal—Maude K. Dearse, MA Camb & MEd, DipEd.

**ST MARK'S COLLEGE**, Pennington Terrace, North Adelaide, S.A. (tel. Adelaide 6 9211). Residential. Opened 1925. Under management of Church of England, but open to men of all denominations. Master—R. B. Lewis, BSc MEd, BA.

**SOUTH AUSTRALIAN INSTITUTE OF TECHNOLOGY**, North Terrace, Adelaide, S.A. (tel. Adelaide 8 1771). Affiliated with the univ. for the provision of certain courses and exams in engin., technol. and appl. sci. Dir.—S. I. Evans, PhD Shuff.

**TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL**, Royal Adelaide H., approx. 800 beds, apart from subsidiary hospes. for cancer, TB, infectious diseases, etc.; Queen Elizabeth H., 450 beds; Queen Victoria Maternity H., 100 beds; Adelaide Children's H., 350 beds; 'Mareeba' Babies' H., Parkside Mental H.

## GENERAL INFORMATION

The univ. was established by act of the provincial legislature in 1874. It began with endowments of £A30,000 each from Sir W. W. Hughes and Sir Thomas Elder, a land grant of 50,000 acres (subsequently repurchased by the govt. for £A40,000), a rate of 5 acres in the city and an annual govt. subsidy of 5 per cent. on endowments. The original site was increased to 8 acres in 1920, to 14 acres in 1927, in 1929 to 27 acres and in 1960 to about 30 acres. It is now about 32 acres.

**CONSTITUTION.** The council consists of the chancellor, the vice-chancellor, 20 members elected by the senate and 5 elected by parliament.

The senate consists of all grads. holding degree of master or doctor and all other grads. of 3 yrs. standing.

**INCOME (1961).** Total for general running costs, £A2,285,304 (govt. grants, 88 per cent., endowments, 2 per cent., fees, 9 per cent., other, 1 per cent.). Income and grants for specific purposes, £A184,000. Original capital of endowments, about £A1,540,000.

**FACULTIES.** Agric. sci., archit. & town planning, arts, dent., econ., engin., law, med., music, sci., technol. Deans elected annually.

**BOARDS OF STUDIES.** Pharmacy, phys. educ., physiotherapy, soc. studies, research studies (for PhD degree).

**UNIVERSITY PRECINCT.** The campus consists of about 32 acres within the city of Adelaide and about 45 acres in park-lands for playing fields (with addnl. 15 acres playing fields at Waite Inst.), 3 major bldgs. in progress.

**LIBRARY.** Approx. 250,000 vols., excl. 18,000 vols. in Waite Inst. library.

**LABORATORIES.** At the univ.—anat., biochem., bot., chem., engin. (civil, electr., mech., mining, metall. and chem. engin.), geol., histol., microbiol., pathol., pharmac., phys., physiol., pharmacol. and zool. For the Waite Inst., see *ibidem*.

**MUSEUMS.** Anat., bot., geol., pathol., physiol. and zool.

**TEACHING HOSPITALS.** See *ibidem*.

The **ELDER CONSERVATORIUM OF MUSIC** (for staff see p. 28 above), established in 1898, is part of the univ. and provides tuition in a wide range of studies in the performance of music. Its students include not only those proceeding to the univ. dipl. but also many others who wish to study a principal subj. (e.g. singing or pianoforte) or to undergo trg. in group work such as orchestral and operatic performances and who study the dir. of their fitness to be admitted.

The **WAITE AGRICULTURAL RESEARCH INSTITUTE** (for staff see p. 28 above) was established in 1924 as a result of a gift by the late Mr. Peter Waite of an estate of 290 acres, a mansion-house and a trust fund of £A38,450. Subsequent endowments and govt. grants have expanded the work of the inst., the purpose of which is 'to further the cause of res. and educn. in agric. and allied subjects'.

**COMPUTING CENTRE.** (For staff see p. 29 above). Formed in Jan. 1961 to handle data processing problems for admin. and depts., and to promote res. in computing. Contains IBM punch-card equipment and a 1620 computer.

The **COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION's** div. of mathl.

scats and div. of biochem. and general nutrition are housed within the univ. grounds and its div. of soils at the Waite Inst.—a total of about 60 scientific res. officers and their ancillary staff.

**OTHER SPECIAL RESEARCH DEPARTMENTS.** (1) Field lab. at Koonamoose for investigation of plant regeneration in arid areas. (2) Sheridan Medical Res. Foundation for support of med. res. (3) Animal Products Res. Foundation, which conducts investigations into problems of animal nutrition (see staff list, p. 28 above). (4) Bd. for Anthropological Res. on aboriginals of Australia. (5) Anti-Cancer Foundation directs res. into cause, treatment and cure of cancer. (6) Mortlock Res. Centre for animal prodn. (7) Gwendolyn Michell Res. Foundation for med. res. (8) Mawson Inst. for antarctic res.

**COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS.** Collection of Australian endoparasites. The collection of the higher Australian fungi (basidiomycetes) given to the Waite Inst. by Prof. J. B. Cleland is by far the largest of its kind and is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of mammalian material. Herbarium of Australian plants. Reference library of Australian Salmonellas.

**ADMISSION.** See Appendix III.

**ORDINARY DEGREES.** 3 yrs., BA, BEc, BSc, BTech (courses in bldg. technol., civil, electr., electronic and mech. engin.; surveying, given chiefly at S. Australian Inst. of Technol.), 4 yrs., BSc in forestry (incl. 2 yrs. at Australian Forestry Sch., Canberra), BAgtc, LLB, MusBac, BAppSc (courses in appl. chem., primary metall., sec. metall.; given chiefly at S. Australian Inst. of Technol.), 5 yrs., BE (civil, electr., mech., metall. and chem.), BDS, BAuch, 6 yrs., MB BS.

**HONOURS DEGREES.** 4 yrs.—BA (classics; econ.; Engl.; French; geog.; German; hist.; Latin; maths.; philas.; pol.; psychol.; or an approved art. course in 2 of those subjs.); BEc (comm., econ.), BSc (biochem.; bot.; genetics; geol.; mach. phys.; maths.; microbiol.; org. chem.; pharmaceut.; phys.; phys. & inorg. chem.; physiol., zool.), MusBac (both addnl. work and higher standard than for ord. degree), BMedSc (aust.; biochem.; genetics; microbiol.; pathol.; pharmaceut.; physiol.), 5 yrs.—BAgtc (any approved branch of agric. sci.), BE (both addnl. work and higher standard than for ord. degree, in chem., civil, electr., mech. and metall. engin.); BArch, LLB (both addnl. work and higher standard than for ord. degree), BAppSc (in appl. chem., primary metall. and sec. metall.), 6 yrs.—BDS (addnl. year after passing the third, fourth or final exam. for ord. degree). No hon. degree in med.

**HONOR. DEGREES.** MArch (not less than 1 yr. after ord. degree); MA, MEd, MSc, MAgSc

(1 yr. after hon. degree or 2 yrs. after ord. degree); ME (2 yrs. after BE); LLM (2 yrs. after hon. LLB), MEd (after bachelor degree, dipl. in educ. and 3 yrs. experience in educ.); MD, MS, MDS, MusDoc (3 yrs. after MB BS, BDS, MusBac), MAppSc (1 yr. after hon. BAppSc or hon. BE, or 2 yrs. after any other approved degree); MTP (normally 1 yr. full-time or 3 yrs. pt-time), MIM (1 yr. full-time or 2 yrs. pt-time, plus thesis 1-2 yrs. after final exam.), PhD (3 yrs. after hon. bachelor degree in agric. sci., archit., arts, econ., engin. law, med. sci., or sci.), LL.D., DDSc (4 yrs. after LLB, BDS), DLitt, DSc (5 yrs. after graduation).

The univ. does not award HONORARY DEGREES.

**EXTERNAL DEGREES.** The univ. does not award any degree or dipl. for external studies, though in certain courses, e.g. arts, S. Australian students may, in special circumstances, be exempted from attendance at lectures in some subjs. of the degree course.

**DIPLOMAS.** Any subgrad. dipl. awarded by the univ. entitles the holder to use the letters AUA—Associate of the University of Adelaide—and, if desired, to specify the subj., e.g. AUA(Pharm).

Pharmacy, 4 yrs., music, phys. educ., soc. studies, physiotherapy, 3 yrs.; DipEd (postgrad.), 1 yr. Fellowship of the Elder Conservatorium of Music (FECM) by exam. or by unanimous resolution of fac. of music for entrance as a performer. A 'final cert. in law' for admission as a practitioner in the supreme court is obtainable by articled clerks on a curriculum less extensive than that for the LLB; a dipl. in arts & educ. (AUA) is granted to candidates who complete prescribed work in the fac. of arts plus prescribed profess. trg. in a recognized teachers' coll. (3 yrs.), a dipl. in pub. admin. is granted to candidates who successfully complete a prescribed course of study in the fac. of econ. and who have had at least 3 yrs. satisfactory service in the S. Aust. public service or similar orgn.

**PUBLIC EXAMINATIONS.** The univ. conducts the 3 public exams. in general secondary educn. in S. Australia—inter., leaving and leaving hon.—and the public exams. in music.

**POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION.** The postgrad. cities in med., dent and legal educn. organize regular postgrad. lectures by local, interstate and overseas lectrs.

**RESEARCH.** Facilities for postgrad. res. in every subj. listed under 'Teaching Staff' (above); the univ. makes annual allocation for special support of res. projects and postgrad. res. students; and in 1961 grants from outside sources for specific res. projects amounted to about £184,000. A *Research Report* is published annually; copies may be had free of charge by univs. and libraries on request to the registrar.

**STUDY LEAVE.** The univ. has a special fund to support study leave, which is granted not at regular intervals of right but after consideration of all

applications, for such leave in a particular yr. Study leave is granted on full salary, with £A600 for fires overseas and a daily allowance for men with family responsibilities.

**Fees** **Mature**, £A3.3s.; *ad eundem status*, £A4.4s.; admission to degrees; any degree of bachelor, whether ord. or hon., £A5.5s.; any degree of master or doctor, £A10.10s.; any dipl. and **FECNI**, £A5.5s.; statutory annual fee, £A13.10s.; general service fee, £A6.6s. or £A3.3s.; tuition fees for degree courses in arts about £A53 p.a., econ. about £A58 p.a.; sci. about £A93 p.a., agric. sci. about £A84 p.a.; engin. about £A84 p.a.; law about £A68 p.a., med. about £A95 p.a. (excl. hosp., £A40), dent. about £A90 p.a.; music about £A53 p.a.; technol. about £A75 p.a.; appl. sci. about £A71 p.a.; archit. about £A84 p.a.; dipl. courses in music, physiotherapy, phys. educn., and soc. studies, about £A63 p.a., in pharmacy, £A105 p.a. (all inclusive) payable to Pharmaceutical Soc. of S. Aust.; Elder Conservatorium tuition about £A40 p.a.

**ACADEMIC YEAR.** Mid-March to early Dec.; 3 terms of 10, 9 and 15 wks., each lecturing term comprising 9 wks.

**ADULT EDUCATION** (For staff see p. 29 above) Univ. bd. of adult educn. conducts extensive range of lecture, tutorial and discussion classes and study circles for adults in metropolitan area of Adelaide and is extending its work to country centres.

**VACATION COURSES** Summer sch. of bus. admin., organized by dept. of econ. (see also 'Publications' below).

**PRINCIPAL 'OPEN' AWARDS.** About 350 Commonwealth scholcs. (see p. 13) and 60 state bursaries (for residents of S. Australia, fees plus living allowance) each yr. for undergrad. studies. Not less than 13 Commonwealth postgrad. scholcs. (for residents of Australia: £A800 p.a., renewable each yr. up to 4 yrs. on recommendation of supervisor) About 60 (no varies each yr.) scholcs. and fellowships (£A550-£A1700 p.a.) for postgrad. studies.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: Bragg labs (phys.); Napper bldg., stages 1 & 2 (arts & econ.); 2 addnl. floors on med. sch.; addnl. floor for archit. Bldg. in progress: addnl. floor on union refectory. *Major alterations.* Benham labs. (bot.); staff club bldg.; psychol. dept.

**REQUIREMENTS** A. J. Hannan (council); M. Hope Creighton (French).

**RESIGNATIONS** P. Dixon (Engl.), to Belf.; D.

**APPOINTMENTS BOARD.** The univ. maintains a small appts. service for the benefit of its grads. Sec. D. G. McKie, BA.

The **GRADUATES' UNION** is a constituent member of the univ. unios. Hon. Sec.: D. G. McKie, BA.

**RESIDENCE.** St. Mark's Coll. (accommodates 110 men), fee for residence during term about £A65 p.a.; St. Ann's (about 80 women), about £A233 p.a.; Aquinas (about 90 men), about £A219 p.a.; Lincoln (about 120 men), about £A235 p.a. These colls. provide tutorial instruction for their students over a wide range of the subjs. taught in the univ.

**SERVICE UNIT.** The univ. regiment was formed in 1947 and the univ. air squadron in 1950.

**UNIVERSITY UNION.** All students proceeding to a 1st degree or a dipl. are members of the union, and all full-time students are members of the sports assocn. Also a compulsory fee of £A13.10s. p.a. covers both. The union council controls the refectory and the union hall and maintains the health service, which offers without charge to the student a full med. and physical exam., including X-ray, Mantoux, etc., and advice about specific treatment (if any) needed and general health matters. The sports assocn. provides facilities for the whole range of organized games played in S. Australia; playing fields of about 45 acres in the parklands adjoining the univ., and about 15 acres at Waste Inst. The students' representatives council is responsible for all other student activities associated with the union. Sec. of the union: H. Swales Smith.

**PUBLICATIONS.** *Calendar* (April), 7s. 6d.; *Public Exam. Manual* (April), 7s. 6d.; *Regulations*, 2s.; *Syllabus and Timetable*, 2s.; *Gazette* (quarterly, by Graduates' Union), 3d.; *Australian Journal of Experimental Biol. and Medical Sci.* (two-monthly), £A3 p.a.; *Joseph Fisher Lecture in Commerce*, free; *Research Report* (June), free; *Proceedings of the Summer Sch. in Economics* (April), free. Student publications: *On Duty* (fortnightly), 3d.; *Science Journal* (annually), 2s.; *Engineering Journal* (annually), 2s.

## THE YEAR 1961

Van Abbé (German); K. W. Thomson (geog.), to Palmerston North U.C.; D. Elliott (maths.), to Syd.; B. C. Rennie (maths.), to R.A.A.F. Coll., Melb.; G. J. Atchison (phys.), to A.N.U.; R. W. Creighton (phys.), to A.N.U.; G. B. Sherman (zool.), to C.S.I.R.O.; G. S. Adams (anat.), R. J. Burns (pathol.); B. N. Catchpole (surg.), apptd. Reader, St. Bartholomew's Hosp. Med. Coll., Lond.; V. Bockner (obstet. & gynaecol.); G. M. Kneeshaw (child health), to overseas study; L. Jasek (Elder Conservatorium); R. A. Anderson (pharm.), to Syd.

## Statistics

STUDENT NUMBERS, 1962  
(as at April 30, 1962)

	Full-Time	Part-Time	External
Men	2977	1911	360
Women	1010	845	90
Total	3987	2756	450

Distribution by Faculties, etc. *Agric. sci.*, 135, *archit.*, 110, *arts* (incl. educn.), 2246; *dent.*, 107, *econ.*, 398; *engin.*, 482, *law*, 238, *med.*, 625; *nursc.* (degree & dipl.), 58; *nursc.* (Elder Conservatorium), 377, *pharm.*, 213; *phys. educn.*, 94, *physiotherapy*, 77, *pub. admin.*, 51; *sci.*, 1216; *soc. studies*, 120, *technol.* (incl. appl. sci.), 610, *nunc.*, 36. Total, 7193.

Included in the figures above are:—

Students proceeding to higher degrees, 366  
New admissions, 1816.

Students from other countries, 325 (Countries from which largest numbers came: Fed. of Malaya, 147, Singapore, 84, Hong Kong, 24; Indonesia, 18)

DEGREES AWARDED (1961), excl. candidates admitted *ad eundem gradum*: *Agric.*, 1; *BAGSc.*, 17, *BAGSc. hon.*, 8, *MAGSc.*, 2; *Archit.*: *BArch.*, 3; *BArch. hon.*, 2. *Arts*: *BA.*, 60, *BA. hon.*, 28, *MA.*, 6, *DLitt.*, 1. *Dent.*: *BDS.*, 14; *MDS.*, 1, *DDSc.*, 1. *Engn.*: *BSc.*, 31; *BSc. hon.*, 4. *Engn.*: *BE.*, 30, *BE. hon.*, 28, *ME.*, 1. *Law*: *LLB.*, 16, *LLB. hon.*, 3. *Med.*: *MB BS.*, 64, *BMedSc. hon.*, 4, *MD.*, 2. *Sci.*: *BSc.*, 100, *BSc. hon.*, 55, *MSc.*, 11, *DSc.*, 1. *Technol.*: *BTech.*, 51, *BAppSc.*, 1, *BAppSc. hon.*, 1. *PhD* (all facs) 9. Total number of bachelor degrees awarded, 520.

DIPLOMAS AWARDED (1961) *Arts & educn.*, 98, *educn.*, 19, *nursc.*, 6; *pharm.*, 29; *phys. educn.*, 7, *physiotherapy*, 16, *pub. admin.*, 1; *soc. sci.*, 1, *soc. studies*, 6.

# AUSTRALIAN NATIONAL UNIVERSITY\*

Founded 1946

Postal Address: Box 4, G.P.O., Canberra, A.C.T., Australia

Cables and Telegrams: Natuniv, Canberra

Telephone: Canberra 4 0422

CHANCELLOR—Sir JOHN D. COCKCROFT, OM, KCB, CBE, MScTech *Manc.*, MA PhD *Cambr.*, Hon. DSc *Oxon.*, *Land.*, *Syd.*, *Manc.*, *Leeds.*, *Birm.*, *Leic.* & *ANU*, Hon LLD *Tor.*, *Glas.*, *Melb.* & *St. And.*, Hon ScD *Dub.* & *Cambr.*, MICE, FIP, FRS

PRO-CHANCELLOR—H. C. COOMES, MA Hon. DLitt *W. Aust.*, PhD *Land.*, Hon LLD *Melb.*

VICE-CHANCELLOR—Professor L. G. H. HUXLEY, MA DPhil *Oxon.*, Hon DSc *Tor.*, FIP, FAA

MASTER, UNIVERSITY HOUSE AND DEPUTY VICE-CHANCELLOR—Professor A. D. THUNDALL, CMG, MA *Cambr.* & *N.Z.*, LittD *N.Z.*, Hon. LittD *Melb.*, Hon. DLitt *Adel.*, FSA

REGISTRAR—R. A. HOCHMAN, BSc *Syd.*

LIBRARIAN—J. J. GRAMMIE, BA *Leic.*, MA *Birm.*

BURSAR—W. S. HAMILTON, AAUQ, FASA

ASSOCIATE REGISTRAR—T. M. OWEN, BCom *Melb.*, FASA

## ACADEMIC STAFF

### INSTITUTE OF ADVANCED STUDIES

Deputy Chairman and Dean, John Curtin School of Medical Research—  
Professor A. H. ENNOR, DSc *Melb.*, FAA

Registrar of Institute—D. K. R. HODGHIN, BSc(Econ) *Leind.*

#### JOHN CURTIN SCHOOL OF MEDICAL RESEARCH

##### Biochemistry

Ennor, A. H., DSc *Melb.*, FAA  
Prof., Dean of Sch.  
Elliott, W. H., MA PhD *Cambr.* Reader  
Blaikley, R. L., MSc PhD *N.Z.* Sr. Fellow  
Rosenberg, H., BSc *Melb.*, PhD Sr. Fellow  
Morrison, J. F., BSc *Syd.*, MSc *Q'ld.*,  
DPhil *Oxon.* Sr. Fellow  
Magrath, D. I., MSc *Syd.*, PhD *Cambr.* Fellow  
Coleman, G., BSc *Manc.*, PhD Res. Fellow  
Whittaker, V. K. L., MB BS *Q'ld.*,  
PhD Res. Fellow

Mackerras, G. B., MB BS *Syd.*, MA  
DPhil *Oxon.*, DCP *Land.* Prof. Fellow  
Morris, B., BVSc *Syd.*, DPhil *Oxon.* Sr. Fellow  
Boydell, S. V., BSc(VetSc) *Land.*,  
PhD *Cambr.* Sr. Fellow  
Woolley, G., MSc PhD *W. Aust.* Res. Fellow  
Sutcliffe, W. E., MD *Syd.*, DPhil *Oxon.* Res. Fellow

##### Medical Chemistry

Albert, A., BSc *Syd.*, PhD DSc *Land.*,  
FRIC, FAA Prof.  
Brown, D. J., MSc *Syd.*, PhD DSc *Land.* Reader

##### Biological Inorganic Chemistry Unit

Prof.  
Sargeson, A. M., BSc DipEd PhD *Syd.* Fellow  
Halpern, B., BSc *Syd.*, PhD *Land.* Sr. Res. Fellow

##### Experimental Pathology

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# Zoology

Smyth, J. D., MA ScD Dub. Prof.  
Nichols, W. L., BSc PhD Liv. Sr. Lectr

Hughes, R. D., DIC, BSc PhD  
Weatherley, A. H., BSc Syd, MSc Tas,  
PhD Glas.  
Barwick, R. E., MSc N.Z.  
Clegg, J. A., BSc PhD Lond  
Tyndale-Biscoe, C. H., MSc N.Z.

Sr Lectr.  
Sr. Lectn.  
Lectr.  
Lectr.  
Lectr.

Tait, N. N., BSc Syd  
2 Res Assts.  
Lectr.  
Sr Demt.

#### ADULT EDUCATION

Craw, B. H., BA DipEd Q'ld Resident Staff Tutor

### ADMINISTRATIVE AND OTHER STAFF

Assoc. Librarians: N. Stockdale, BA Melb;  
Clara Campbell-Smith, BA DipEd Tas; Chaoyang Fang, BS Yenching

Asst. Registrars: (Inst. of Advanced Studies) E. P. Thomas, BSc(Econ) Lond Registrar's Asst. (Sch. of General Studies): T. J. Keeth, Sr. Grad Asst. (Inst. of Advanced Studies): R. J. C. Hoern, BA Syd, MA O'vow Grad Assts. (Inst. of Advanced Studies) Helen Cumpston, BA LLB Tas., G. L. Williamson, BSc Adel., A. J. H. O'Neill, BA Q'ld Grad Assts (Sch. of General Studies): Mary G. C. Bouquet, BA DipEd Syd., D. N. Kennard, BA N.E. Asst. to Registrar (Pub. Reins.) J. G. P. Jones, Accountant, J. Ryan, BCom Q'ld Asst. Accountant, Lois A. Bellingham,

BCom Q'ld, FASA, Asst. to Bureau: J. R. Paget, BCom Melb, FCIS Business Manager (Sch. of General Studies): P. W. Brett, Univ Architect: B. A. J. Litchfield, FRAIA Acct Designer: D. F. Wrigley, Housing Officer Dorothy E. Harvey, BA Melb Lab. Manager (Phys. Sci.): A. A. Robertson, BE Adel Business Manager (Med. Res.): W. H. Goddard Technical Manager (Med. Res.), J. B. Wright Student Counsellor, Assoc. Prof. P. Pestonny, MA W'ast Student Advisers: E. C. Fry, BA BEe Syd, PhD, K. Skene, BEe Q'ld, PhD Duke, W. L. Nicholas, BSc PhD Lus, H. Tarin, MA LLB Dub, Warden of Bruce Hall: W. P. Packard, MA N.Z.

### GENERAL INFORMATION

The Australian National Univ. was founded by an act of parliament of the Commonwealth of Australia in 1946. The act provided for the establishment in Canberra of a univ. consisting of a council and convocation, and grad and undergrad. members. The prime function of the univ. was to undertake postgrad. res., incl. the tpg. of grad. students. No undergrad. members were enrolled until 1960 when, by amending legislation to the act, the Canberra Univ. Coll. became part of the univ. Canberra Univ. Coll. was establd. in 1929 by an ordinance of parliament as a teaching instn. where undergrad. members were prepared for degrees of the Univ. of Melbourne. The emphasis on res. is maintained under the new organization, the former work of the univ. being continued in the Sch. of General Studies. The resources of the univ., whilst serving the rapidly growing needs of Canberra, will be developed to make a univ. which will be national at all levels.

**CONSTITUTION.** The council, on the incorporation of the coll., was enlarged from not more than 30 members to not more than 38 incl. the vice-chancellor, 4 members elected by parliament, up to 12 apptd. by the governor-general, up to 4 elected by convocation, 8 elected by the academic staff (of whom a will be dirs. of research schs. and a deans of facs.), and a by students. The sr. academic bodies are the bds. of the instn. and of the sch.; there is also a professional bd. which includes all full profs. in the univ. and which is advisory and does not meet regularly. The bd. of the Inst. of Advanced Studies is responsible to council for matters relating to doctoral degrees

and the bd. of the Sch. of General Studies for matters relating to the degrees of bachelors and master. Candidates for doctoral degrees are, however, supervised by members of either the inst. or the sch. as is appropriate. Convocation will eventually consist mainly of the council and grads of the univ., but at the outset the opportunity was taken to add to it the chancellor and vice-chancellor and 5 other reps. of each other Australian univ. instn.; following the amendment to the Australian National Univ. Act in 1960 further names have been added (in addition to all former members of council of Canberra Univ. Coll., members of staff, and grads of 3 yrs' standing who obtained a degree through the coll.) incl. members of parliament who have degrees and members of learned socs.

**INCOME (1960)** Running expenses of Inst., £A1,847,883 (Commonwealth govt. grants, 96.1 per cent.; rentals, 3.3 per cent.; fees and sundries, 0.4 per cent.). Commonwealth govt. grants for capital works, £A585,866. Sch. (1960): £A311,600 (Commonwealth govt. grants, 92.4 per cent.; fees, 6.3 per cent.; other, 0.3 per cent.).

**UNIVERSITY PREMISES.** The univ. site consists of 340 acres of well-situated land in the Canberra district of Acton. The first permanent bldg. erected was the lab. of the Res. Sch. of Phys. Sci., University House, which provides collegiate accomm. for about 160 single staff members and grad. students, was opened in 1954. The permanent lab. for the John Curtin Sch. of Med Res. were completed in 1956 and the inst. lab. bldg. is to be completed in Oct. 1962. Also under constrcn. are permanent bldgs. for the Res

Schs. of Soc Scis and Pacific Studies, a maths dept. in the Res Sch. of Phys Scis., and addnl. accomm. at Mount Stromlo Observatory. The observatory (10 miles from the city) was transferred in 1956 from the Commonwealth to the univ. and is now the dept. of astron. Up to 1960, Canberra Univ. Coll. was housed in temp. quarters. In June 1960, the coll. occupied its first permanent bldg—the Haydon-Allen bldg—to accomm. arts depts., a phys. bldg and a hall of residence—Bruce Hall—were completed in 1961 for the Sch. of General Studies. Bldgs for chem., geol. and the general studies lib. are under constrn. and later in 1962 constrn. of a bldg for sool. will begin. In the design stage are bldgs for bot., law, oriental studies and a union.

**LIBRARIES** Inst. lib. 160,000 bound vols. and 30,000 vols. in oriental collection. General studies lib. 60,000 vols. plus 23,000 vols. in oriental collection.

**INSTITUTE OF ADVANCED STUDIES.** As was contemplated by the act of 1946, the univ.'s activities were in the first instance concentrated on the 4 res. schs. named in the act—the John Curtin Sch. of Med Res. (named after Australia's war-time prime minister), and Res Schs. of Phys. Scis., Soc. Scis. and Pacific Studies. It is intended that each sch. should be led by a dir., but the responsibilities for the organization of the work of particular depts. within the schs. will rest with their professional hds. Dirs. have been apptd. in 3 schs., but in the John Curtin Sch. of Med. Res. a dean is apptd. In addition to the dirs. and profs. the staff comprises permanent readers and professorial fellows, sr. fellows and fellows, and short-term sr. res. fellows and res. fellows. The univ. seeks to provide members of staff with the most favourable conditions for res. They have their whole time available for res., their teaching and admin. duties being of a quite minor kind. They have opportunities to move about among their colleagues in Australia and the permanent staff has generous provision for study leave.

**THE SCHOOL OF GENERAL STUDIES** is largely concerned (apart from the res. interests of its staff) with undergrad. teaching, although the staff, together with the staff of the inst., supervises students for higher degrees. There are 5 facs.—arts, econ., law, oriental studies and sci.—each with a dean. Deans of facs. *arts*, Prof. C. M. H. Clark (hist.), *econ.*, Prof. G. S. L. Tucker (econ. hist.), *law*, Prof. J. E. Richardson; *oriental studies*, . . . , *sci.*, Prof. J. D. Smyth (sool.).

**ADMISSION.** Each dept. of the res. schs. of the inst. accepts a no. of grad. res. students of first-class calibre, the general minimum entrance qualif. being a good hon. degree from a recognized univ. and evidence of capacity for res.

For admission to the sch., see Appendix III.

**FIRST DEGREES.** 3 yrs.—BA pass, BEc pass, LLB pass, BEc pass 4 yrs.—BA hon. (more intensive than pass degree and more thorough trig. in one of following hon. aths.—Greek, Latin,

Engl., French, German, Russian, hist., math., Chinese studies, Japanese studies, S-C Asian studies, phlos., pol. sci., psychol., econ., math. stats.), BEc hon. (students take pass course with distinction work in more important units; in fourth yr., hon. students specialize in 1 of the 4 subs. of the 1st yr.: econ., pol. sci., stats., econ. hist.), LLB hon. (course as for pass degree with final hon. exam. held about 3 mos. after completion of course); BEc hon. (students obtaining high standard in first 3 yrs. of course may be admitted to hon. yr. to specialize in 1 of following—bot., chem., geol., maths, phys., psychol., sool.). Pass degrees can be taken on the basis of pt.-time attendance at the sch. For hon. students in arts, econ. and sci., fourth yr. must be taken full-time.

**HIGHER DEGREES.** MA, MEd, LL.M., MSc (2 yrs., exam. and thesis for pass grade; 1 yr. and thesis for hon. grade). Pt.-time students may be required to undertake longer candidatures. For PhD, each student pursues course of res. under supervision and, subject to certain conditions, may proceed to degree, normally after 3 yrs.' work. DLitt, DSc and LL.D. are conferred for distinguished work in appropriate fields publd. by persons with a substantial connection with univ.

**HONORARY DEGREES.** Persons of distinguished eminence in learning or in pub. service may be admitted to degrees of DLitt, DSc or LL.D. *honoris causa*.

The univ. does not award **EXTERNAL DEGREES**.

**STUDY LEAVE.** Profs. of the inst. may take a yr.'s study leave with full salary in each 4 yrs. of service, readers and sr. fellows in each 6 yrs. of service and fellows in each 7 yrs. of service. Substantial travel allowances granted. In the sch., full-time members of academic staff are eligible for 1 yr. on full pay after 6 yrs.' service. The sch. also has a scheme of financial assistance towards study leave.

**FEEs.** Inst. £A53 11s. (covers all charges except board and residence). Sch. metric or status fee—£A2 2s. Degree courses (per unit)—arts and econ. units £A27; law subs. £A12 to £A27, sci. units 1st yr. £A27, 2nd yr. £A54, 3rd yr. £A54. Approx. total cost of courses—arts, econ. and sci. pass degree £A370, hon. degree £A551, law pass and hon. degrees £A408. Higher degree courses—approx. £A30 p. a. plus status fee on admission.

**ACADEMIC YEAR.** Early March to early Dec 3 terms of 10, 9 and 14 wks.

**ADULT EDUCATION.** In the Sch. of General Studies a dept. of adult educn. was introduced in 1959. The staff tutor also organizes adult educn. societies in southern New South Wales in assocn. with the dept. of tutorial classes, Univ. of Sydney. Resident Staff Tutor: B. H. Crew, BA DipEd Qld.

**SCHOLARSHIPS.** The univ. offers a no. of scholps. in the inst. annually to support specially

able students working for the PhD in the univ. Emoluments vary according to scholar's circumstances, but present basic rate is £A950 p.a. Students with appropriate medical qualifications receive £A1372 p.a. Additional discretionary allowances may be paid to married scholars with children.

The univ. from time to time issues invitations to distinguished or scholars to visit Australia, such visitors undertake their own work, lecture and lead seminars with interested people not only in Canberra but in the other Australian univs.

Principal open awards for study in the sch. natural undergrad. scholps; or natural studies scholps for Australian students preparing for first degree or who have a degree but wish to pursue natural studies in the sch. at undergrad level Commonwealth scholps. (see p. 13) and New South Wales teacher try scholps also tenable in the sch.

**RESIDENCE.** Students of the inst. are normally required to live in University House. Fees range from £A9:25:16d. to £A12:12:12 (married couple, £A18:5s) per wk. according to type of accom. Master of University House. Prof A D Trendall, CMG, MA Camb & N.Z., LittD N.Z., Hon. LittD Melb., Hon. Diatt Add., FSA.

In the sch Bruce Hall accom. 160 students Fees, £A255 (reducible to £A240 if terminal payments made by due dates) per academic yr. Applicants for residence must be lodged by Nov. 1 each yr. Warden: W P. Packard, MA N.Z. Accom. in hostels and lodgings also available.

**PUBLICATIONS.** *Calendar*, £A1, *Faculty Handbook*, 6s., *Annual Report*; *ANU News*, every few months; *Prospect* (students' mag), annual, 5s.; *Woom* (students' newspaper), fortnightly each term; *Inaugural Lectures*, *Commonwealth Literary Fund Lectures*; *Morrison Oration*.

## THE YEAR 1961

**RETIREMENTS.** Rt. Hon. Visc. Bruce of Melbourne (chancellor)

**RESIGNATIONS.** G. A. B. Docker (asst. registrar)

### Institute

**NEW DEPARTMENTS AND CHAIRS.** Dept. and chair of social in Res. Sch. of Soc. Sci.

**RESIGNATIONS.** Prof. I. F. Pearce (econ., Res. Sch. of Soc. Sci.), apptd. to St'ion.; Dr. J. H. Cuyver (nuclear phys.), apptd. to Elder chair of phys., Adel.; Dr. J. C. Illiansky (philos., Res. Sch. of Soc. Sci.), apptd. reader, Q'ld.; W. K. Whitten (vet. officer), apptd. Nat. Biol. Stand. Lab.; Dr. G. C. Bolton (hist., Res. Sch. of Soc. Sci.), apptd. to Monash.

### School

**NEW DEPARTMENTS AND CHAIRS.** Depts. and chairs of theoret. phys., oriental civilization.

**RETIREMENTS.** Assoc. Prof. K. C. Masekian (classics)

**RESIGNATIONS.** Prof. H. Balerstein (Chinese), apptd. to chair in Col.; Dr. J. M. Biggs (law), to private practice; Dr. C. E. Leach (stats.), to Econ. Res. Inst., Dub.; C. E. Billigheimer (maths.), Canada Council fellowship; D. W. Smith (law), apptd. asst. registrar; Prof. K. E. M. Baei (philos.), apptd. to chair in Pitt.; Prof. H. A. J. Ford (law), apptd. to chair in Melb.; Dr. F. N. Cox (psychol.), apptd. to Melb.; D. M. Taylor (psychol.), apptd. to Liv.; Dr. A. J. Fabena (maths.)

## Statistics

### STUDENT NUMBERS, 1962

#### Institute

Men, 170; women, 18. Total, 188.  
All were full-time postgraduate students.  
These figures include students from other countries (27 from U.K.; 18 from N.Z., 14 from India and Pakistan; 7 from Canada, 4 from Malaysia and Singapore; 1 from Fiji).

#### School

	Full-Time	Part-Time
Men	288	591
Women	174	120
Total	462	720

**Distribution by Fields of Study.** Arts, 548; econ., 311; law, 121; sci., 202. Total 1182.

*Included in the figures above are:—*

Postgraduate students, 78

New admissions, 446

Students from other countries, 30 (Country from which largest number came—Malaya, 9).

*Not included above are 112 non-degree students*

**DEGREES AWARDED (1961).** 1961—John Curtin Sch. of Med. Res.: PhD, 8. Res. Sch. of Phys. Sci.: PhD, 7. Res. Sch. of Soc. Sci.: MA, 1, PhD, 8. Res. Sch. of Pacific Studies: MA, 1, PhD, 8. Sch.—Arts: BA, 41. Res. Sch. of Law: LLB, 5. Sci.: BSc, 3. Total number of first degrees awarded, 68.

**DIPLOMAS AWARDED (1961)** DipPubAdm., 2.

# UNIVERSITY OF MELBOURNE\*

Founded 1853

Postal Address: Parkville, N.Z., Victoria, Australia

Cables and Telegrams: Melbourne University, Parkville, Victoria

Telephone: Melbourne, 34 0484

VISITOR—H.E. THE GOVERNOR OF VICTORIA, SIR DALLAS BROOKS, KCB, KCMG, KCVO, DSO, Hon. LL.D.

CHANCELLOR—Hon. Sir ARTHUR DEAN, QC, LL.M.

DEPUTY-CHANCELLOR—Sir WILLIAM G. D. UPPON, OBE, MD MS, FRCS, FRACS

VICE-CHANCELLOR—Professor Sir GEORGE W. PATON, Hon. LL.D. Glas., Syd. & Q'ld., Hon. DCL W. Ont., BA BCL Oxon., MA

DEPUTY VICE-CHANCELLOR—Professor E. S. HILLS, DIC, PhD Lond., Hon. DSc Durh., DSc, FAA, FRS

PRO-VICE-CHANCELLORS—Professor E. S. HILLS, DIC, PhD Lond., Hon. DSc Durh., DSc, FAA, FRS, Professor W. PETER, MA Leeds, MA (Cam) Mave., MCom

REGISTRAR—FRANK HORACE JOHNSTON, JP, BA BCom

ACCOUNTANT—R. A. CUMMING, JP, BCom

ASSISTANT REGISTRAR—A. J. G. WILLIAMS, BAich

ACADEMIC SECRETARY—S. H. SHEFFIELD, BA

DEAN OF GRADUATE STUDIES—L. R. FYFE, MA DipEd Oxon., BSc

OFFICER-IN-CHARGE, SCIENTIFIC, MEDICAL AND TECHNICAL BRANCH—P. G. ELYARD, BSc BEd

LIBRARIAN—K. A. LOBEWYCK, BA

## TEACHING STAFF

[I = Part-Time]

### Accountancy

Goldberg, L., BA MCom, FASA, FCAA Prof  
Johnston, T. R., PhD Camb., LL.M BCom N.Z., MCom Reader  
Kerr, Jean St. G., MSc Cal., BCom Sr. Lectr  
Holmes, E. M., BCom, FCA Sr. Lectr  
McMahon, B. J., BCom Sr. Lectr  
Samels, R. A., MA MLitt LLB Camb., MCom (Comm. Law) Sr. Lectr  
Nash, G. P., LL.M Tor., LLB (Comm. Law) Sr. Lectr  
Jager, M. O., BCom Lectr  
Gibson, R. W., BCom Lectr  
Topp, A. G., BCom Asst. Lectr  
Hain, H. P., DrMercRer Vienn. Asst. Lectr  
Saunders, Joan W., BCom Tutor  
30 Officers]

### Agriculture, see also Bot.

Forster, H. C., PhD Lond. MAgrSc Prof.  
Leeper, G. W., MSc Assoc. Prof.

Tribe, D. E., BSc(Agric) R'g, PhD Aberd. (Physiol. of Domestic Animals) Reader  
Hird, F. J. R., PhD Camb., MAgrSc (Agric. Biochem.) Reader  
Vasey, G. H., BCE (Agric. Engin.) Reader  
Aitken, Yvonne, MAgrSc Sr. Lectr  
Tulloch, N. M., MAgrSc (Animal Husb.) Sr. Lectr  
Wilson, J. H., PhD Lond., BAgrSc Sr. Lectr  
Lloyd, A. G., BEc Syd. (Agric. Econ.) Sr. Lectr  
Presser, H. A., BA (Rural Sociol.) Sr. Lectr  
Smith, D. F., BAgrSc Adm. Lectr  
Briner, G. P., BSc W.Aust., MSc N.E., PhD (Agric. Chem.) Lectr  
Ross, Mary M., BSc N.Z. Sr. Demr  
14 Officers, 1 Admin. Asst.

### Anatomy

Ray, L. J., MB BS PhD Prof  
Russell, K. F., MB MS, FRACS Reader in Med. Hist. & Assoc. Prof  
Lewarick, J. O., MB BS PhD (Embryol. & Histol.) Reader

\* Member of the Association of Universities of the British Commonwealth



Roche, A. F., MB BS PhD  
Kenny, G. C. T., MB BS *Q'ld.*  
Merrillies, N. C. R., MB BS  
(Embryol. & Histol.) St Lect

Sr. Lect.  
Sr. Lect.

But, L. M., DPhil Oxon., PhD BSc  
BAGRSc  
Funch, L. R., PhD BSc *W. Aust.*  
Davidson, B. E., BAGRSc  
Moore, C. H., BSc *St Aust.*  
McLeod, M. F., BSc  
4 Officers]

Lect.  
Lect.  
St. Dem.  
Sr. Dem.  
Dema

### Anthropology

Thomson, D. F. F., OBE, PhD Camb.,  
DipAnthrop Camb. & Syd., DSc  
Univ. Res. Fellow

### Applied Science

Greenwood, J. N., DSc *Mex. & Mal.*,  
MMetall. Prof  
Merewether, J. W. T., DSc Syd., FRACI  
Hill, M., BE *Adel.*  
Gatehouse, B. M., PhD *Lond.*, MSc *N.S.W.*,  
BSc  
1 Lectr.]

Sr. Lect.  
Sr. Lect.

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Sr. Lect.

### Architecture and Building

Lewis, R. B., MA(Arch) *Liv.*, PhD *Lond.*,  
BArch, FRIBA, FRAIA Prof  
Berg, R., DipArchDea, FRAIA  
Wright, H. L., BArch, FRAIA  
Janet, F. A., DegArch *Vic.*, MArch Sr. Lectr.  
Parker, R. G., DipArch *Law*, FRIBA,  
FRAIA Sr. Lectr.  
Hammerschmidt, C. A. C., DegArch *Copen-*  
*hagen* Sr. Lectr.  
Benton, D. C., BArch Sr. Lectr.  
Strick, Z., DegEng-Arch *Berl.*, MArch  
Morton, J. C., BArch (on leave) Sr. Lectr.  
Saunders, D. A. L., BArch DipTRP Sr. Lectr.  
Sains, B. S., BA *Pang.*, BArch Sr. Lectr.  
McDonald, I. C., MSc *N.Z.* Res. Fellow  
Alexandra, D. D., BArch  
Coldcutt, B. B., MSc DipEd  
Querry, N. D., BArch *Res.*  
O'Neill, H. A., BArch  
Erpe, P., DipArch *Idem.*  
Chu, T. W., BArch  
27 Lectrs.]

Sr. Lect.  
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### Bacteriology, see Medicine

### Biochemistry

Trikojus, V. M., DSc Syd., DPhil Oxon.,  
MSc, FAA Prof  
Rawlinson, W. A., MSc Assoc. Prof  
Lange, J. W., MSc Resid.  
Hird, F. J. R., PhD Camb., MAGRSc  
(Aguc. B.) Resid.  
(Chn. B.) Sr. Lectr.  
Chen, Mrs. Audrey J., BAGRSc DipDiet  
(Nutrition & Appl. Dietetics) St. Lectr.  
McQuillon, Mary T., MSc PhD  
Maunder, G. A., PhD Edin. Sr. Lectr.  
Henderson, R. W., BSc PhD  
Crabtree, Mabel G., MSc  
Morgan, M. A., BSc  
Stone, B. A., PhD *Lond.*, BSc  
Todd, P. E., BSc PhD

Sr. Lect.  
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### Botany and Plant Physiology

Tunney, J. S., MA PhD Camb., MSc, FAA Prof  
Specht, R. L., MSc PhD *Adel.* Reader  
Blackwood, Margaret, PhD Camb., MSc  
Rowan, K. S., PhD Camb., MSc Sr. Lectr.  
Neales, T. F., MA Oxon., PhD *Lond.* Sr. Lectr.  
Duckett, Sophie C., MSc Sr. Lectr.  
Thomson, L. B., MSc Sr. Lectr.  
Miles, P. L., BSc *Wales*, PhD *Kem.* Sr. Lectr.  
Ashton, D. H., BSc PhD  
Chambers, T. C., MSc *N.Z.*, PhD Syd.  
Pakeny, D. G., BAGRSc Syd. Asst. Lectr.  
Giff, D. F., MSc Sr. Dem.  
Thomson, Mrs. Stella L., BSc Sr. Dem.  
Waste, Greta, MSc Sr. Dem.  
Dugan, Suzanne L., PhD Camb., MSc  
2 Officers] Sr. Res. Officer

### Chemistry

Bochman, A. S., BSc PhD, FRACI  
(Phys. C) Prof  
Jackman, L. M., MSc PhD *Adel.* (Org. C) Prof  
Martin, R. L., PhD Camb., MSc, FRACI  
(Inorg. C) Prof  
Cooke, R. G., DSc *Adel.*, MSc, FRACI  
(Org. C) Reader  
Senior Lecturers  
Anderson, J. R., BSc *N.S.W.*, PhD Camb.  
(Phys. C)  
Stranks, D. R., MSc PhD (Phys. C)  
Stephenson, Emily F. M., PhD *Glas.*,  
MSc (Org. C)  
Johns, R. B., MSc *N.Z.*, PhD Camb. (Org. C)  
O'Donnell, T. A., MSc PhD (Inorg. & Phys. C)  
Penham, F. J., PhD *Brist.* & Camb., MSc  
(Inorg. & Phys. C)  
Oliver, N. H., MSc

### Lecturers

Casey, A., BSc *Manit.*, MSc *Br. Col.*  
PhD Camb. (Inorg. & Phys. C)  
Carg, R. A., MSc (Inorg. & Phys. C)  
Radford, Joan T., BSc (Inorg. & Phys. C)  
White, J. C., MSc *N.Z.* (Phys. C)  
Porter, Q. N., MSc PhD (Org. C)  
Lawlor, J. M., BSc PhD *Lond.* (Org. C)  
Barracough, C. G., PhD *Lond.*, MSc (Phys. C)  
McTigue, P. T., DPhil Oxon., MSc (Phys. C)  
Cooper, R., BSc PhD *Lond.* Asst. Lectr.

### Senior Demonstrators

Humfrey, A. A., BSc Syd.  
Mackay, Maureen F., BSc Syd.  
Johnson, B. L., MSc  
Stevens, Meta, MSc

Wilks, W. D. J., BSc DipEd  
 Webb, W., MSc Rand  
 Heraud, Valda, BSc BEd  
 Dettman, Margaret G., MSc Lond, BA GSc  
 Mungin, Margaret, MSc  
 Stewart, D. F., MSc  
 Ritchie, I. M., MA Camb  
 Sanders, Heather M., BSc Syd  
 Ilopo, Judith L., MSc

## Teaching Fellow

James, S. D., BSc Wales, PhD Lond

## Demonstrators

Kamphausen, H. A.  
 Baldwin, W. G., MSc Manc  
 1 Officer

## Chinese, see Oriental Studies

## Classical Studies

Hunt, H. A. K., MA Oxon, BA Syd,  
 Lond DipEd Prof  
 Gellie, G. H., MA BEd Reader  
 Quinn, K. F., BA N.Z., MA Camb. &  
 Melb. Reader  
 Barbour, H. R. P., BA Q'ld, MA Oxon &  
 Melb. Sr Lectr  
 McKay, K. J., MA Sr Lectr  
 Martyn, J. R. C., BA Camb. Lectr  
 2 Officers

## Commerce and Business Administration

Willet, F. J., BA Camb Prof  
 Whitlam, A. G., BA BCom (Marketing) † Lectr.  
 1 Tutor

## Criminology

Johnston, S. W., BA LLB Sr Lectr-in-Charge  
 Greig, Deirdre N., BA DipEd Dip Soc Stud Lectr.  
 2 Officers

## Dental Science, see below

## Dutch, see Germanic Langs

## Economic Geography

Bayne, Mary M., MA DipEd Sr Lectr-in-Charge  
 Wilson, R. W., BA N.Z., MA Lond,  
 Ph.D. ANU. Sr Lectr.  
 Woods, C. S., BCom Lectr  
 Fraser, R. M., MA N.Z. Lectr  
 Donath, E. J., MA Vienna Asst. Lectr.  
 Pulver, S., PhD Vienna Sr Tutor  
 Northcott, P. H., MA Camb Sr Tutor  
 Webb, G. R., MCom Sr Tutor  
 1 Tutor, 3 Officers

## Economic History

Woodruff, W., MA Dip Econ & Pol Sci Oxon,  
 BSc (Econ) Lond., PhD Natl., MCom Prof.  
 Dunsford, E., DEc Riga, MA MCom Sr Lectr

Blaney, G. N., MA Sr Lectr  
 Kotono, T., BSc Tokyo, PhD Hokkaido  
 Visiting Lectr  
 Kilip, J. H., MA St And Lectr.  
 Beaver, E. A., BA Oxon Lectr.  
 Kolkoo, G., BA Kent State, MS Wis.,  
 PhD Harv. Asst. Lectr  
 Thompson, A. O., BCom Sr Tutor  
 2 Tutors

## Economic Research

Downing, R. I., DipEcon Camb, BA Prof.  
 Henderson, R. F., MA PhD Camb Reader  
 Reeves, J. H., BA Res Officer

## Economics

Prest, W., MA Lond., MA (Com) Manc, Prof  
 MCom Assoc Prof  
 Polglase, Muriel J., MBE, MCom Assoc Prof  
 Blakey, K. A., BA N.Z., MSc (Econ) Lond,  
 DPhil Oxon, MCom Reader  
 Soper, C. S., BCom Reader  
 Neulescu, E., MA Camb, BSc (Econ) St. Lectr.  
 PhD Lond.  
 Boehm, E. A., MEd, Jdel, DPhil Oxon. Sr Lectr.  
 Boxer, A. H., BPhil Oxon., BA Sr Lectr.  
 Perkins, J. O. N., MA PhD Camb Sr Lectr  
 Harper, R. J. A., BCom Sr Lectr  
 Webb, L. R., BCom Lectr  
 Martindale, T. J., BCom Asst. Lectr  
 Subocz, V., BCom Asst. Lectr  
 Stewardson, R., BA Temp Lectr  
 Deebbin, J. S., BCom Asst. Lectr  
 Dyson, H., BCom DipEd Asst. Lectr.  
 Gunther, A. W., BCom Asst. Lectr.  
 Hayles, A., BCom Asst. Lectr.  
 Kao, A., BCom Sr Tutor  
 Gregory, R. G., BCom Sr Tutor  
 Catchhouse, J. A., BCom Sr Tutor  
 Goss, B. A., BCom Sr Tutor  
 15 Tutors

## Education

Frederick, W. H., Dipl Cours de Civilisation, Prof  
 Paris, MA DipEd  
 Aughterson, W. V., PhD Lond., MA Assoc. Prof  
 DipEd Sr Lectr.  
 French, E. L., BA BEd PhD Sr Lectr.  
 Austin, A. G., MC, BA MEd Sr Lectr.  
 Bradshaw, G. D., BA BSc DipEd W. Adv.,  
 (on leave) Sr. Lectr.  
 Falk, Mrs. Barbara, MA DipEd Oxon. Sr Lectr.  
 Eason, T. H., BA DipEd Sr Lectr.  
 Morey, Elwyn A., PhD Calif., MA BEd Sr Lectr.  
 Hannah, Wilma D., MA BEd Sr Lectr.  
 Dow, Mrs. Gwyneth M., BA BEd Sr Lectr.  
 Wyllie, Oliver, MA MEd PhD Sr Lectr.  
 Gilbert, L. C., ES Mus., MS Virginia, Sr Lectr.  
 PhD Chic. Lectr  
 Curry, N. G., BA BEd Lectr  
 Palmer, Kathleen I., BA BEd Lectr  
 Fendley, G. C., BA BEd Lectr.

Gall, P. N., BA BEd  
 Radvinsky, J. G., BA IV *Anal.*  
 Sellsack, R. J., BA BEd  
 Gaudry, E., BA *Syd* (Psychol.) Lectr.  
 Gilbert, Miss Doris, MA *Paris* (Psychol.) Lectr.  
 Anderson, D. S., MA Educn. Rev. Officer  
*Bacteriology, Clinic, BA Sr Tutor, Librarian*  
 18 Officers]

### Engineering, see below

### English Language and Literature

Maxwell, I. R., BLitt *Oxon.*, BA LLB Prof.  
 Macartney, K. L., MA *Cambr.*, BA Assoc. Prof.  
 Jennings, Vera C., MA *Oxon.* & *Melb.* (on leave) Sr. Lectr.  
 Dolson, T. P., MA *Cambr.*, BA Sr. Lectr.  
 Goldberg, S. L., BLitt *Oxon.*, BA Sr. Lectr.  
 Buckley, V. T., MA Sr. Lectr.  
 Cole, A. S., BA *Bordeaux*, PhD *Dub.* Sr. Lectr.  
 Tomlinson, T. B., BA *W.Aust.* & *Cambr.*, LLB *W.Aust.* Lectr.  
 Tomlinson, Mrs. Mary T., BA *Cambr.* & *Adel.* Lectr.  
 Dow, H., AB *Harv.* (Rhetoric) Lectr.  
 Tennent, Amy G. C., MA DipEd Lectr.  
 Moody, A. D., BA *N.Z.* & *Oxon.* Lectr.  
 Wallace-Crabbe, C. BA (Creative Writing & Aust. Lit.)  
 Lockie Fellow  
 Cowling, Mrs. Muriel M., BA *Leeds*, DipEd Sr. Tutor  
 Cusbon, Winifred M., MA *Teacher's Dip.* Sr. Tutor  
 Moore, Sr. Tutor  
 Moody, Mrs. Philippa, BA *Oxon.* Sr. Tutor  
 Gribble, Jennifer, BA Sr. Tutor  
 Martin, F. J., BA Sr. Tutor  
 Karas, Patricia, BA *Adel.* Sr. Tutor  
 4 Tutors, 1 Officer]

### Experimental Neurology, see Medicine

### Fine Arts

Burke, J. T., OBE, MA *Leeds*, *Yale* & *Melb.* Prof.  
 Philipp, F. A., BA Sr. Lectr.  
 South, B. W., BA *Syd*, PhD *A.N.U.* (on leave) Sr. Lectr.  
 Course, L. J., BA Lectr.  
 3 Tutors, 1 Officer]

### Forestry

Chinner, J. H., BSc *Oxon.* & *Melb.* Reader-in-Charge  
 Leslie, A. J., BScF (For. Management) Sr. Lectr.  
 6 Officers]

### French

Jackson, R. F., BA *Syd.*, MA Prof.  
 Carant, P. L. J. G., BA (Philol.) Sr. Lectr.  
 Lawler, J. R., DU *Paris*, MA Sr. Lectr.  
 McCormick, C. A., BA *Cambr.* (Italian) Sr. Lectr.

Scott, S. J., MA PhD Sr. Lectr.  
 MacLennan, W., MA PhD *St. Aust.* Sr. Lectr.  
 Burges, Mrs. Claire H., MA Sr. Lectr.  
 Barbo, I. P., LicPhL *Brunswick*, DU *Sydney* Sr. Lectr.  
 Polts, V., DottLett *Thorn* (Italian) Lectr.  
 Just, F. P., DU *Paris*, BA Lectr.  
 Holland, A. K., BA *Syd.*, DipEd *Bordeaux* Lectr.  
 Gandolf, Cordeira, DottLett *Rome* (Italian) Lectr.

Giroux, Micheline, L&L

DipEd *Sup. Rennes* Lectr.  
 Brady, P. S., BA *Syd*, DU *Paris* Lectr.  
 Hamblay, P., DU *Paris*, BA *Adel.* Lectr.  
 Comin, G. A. A., BA *Syd.* (Italian) Lectr.  
 McPhoe, Kathleen H., MA DipEd Asst. Lectr.  
 Casey, T. R., MA DipEd Asst. Lectr.  
 Ropert, M., L&L *Rennes* Asst. Lectr.  
 Frish-Purochon, Anne, L&L  
 DipEd *Sup. Nancy* Sr. Tutor  
 4 Officers], 2 Tutors

### Geography

Andrews, J., BA *Syd.*, PhD *Cambr.*, MA Prof.  
 Wilcock, A. A., BSc BEd Reader  
 Cochrane, G. R., MA BSc *N.Z.* Sr. Lectr.  
 Perry, T. M., BA DipEd *Syd.*, PhD *A.N.U.* Lectr.  
 Coghill, J. G., MA *Cambr.*, BCom Sr. Lectr.  
 Double, K. W. W., MSc *Belf.* Lectr.  
 Wilson, M. G. A., MA *N.Z.* & *W.A.* Lectr.  
 Prescott, J. R. V., BSc MA *Durk.*, PhD *Leeds*, DipEd Lectr.  
 Smith, R. H. T., BA *N.E.*, MA *North-western*, PhD *A.N.U.* Lectr.  
 Baston, J. N. H., BA *Syd.* Demr.  
 1 Officer]

### Geology and Mineralogy

Halls, E. S., DIC, PhD *Leeds*, Hon DSc *Durk.*, DSc, FAA, FRS Prof.  
 Tatum, C. M., PhD *Leeds*, ScD *Colorado* Actg. Prof.  
 Sch. of Miner. BSc  
 Kari Grant, C., BA *Cambr.*, BSc *Adel.* (Geophys.) Reader  
 Singleton, O. P., MSc *Melb.*, PhD *Cambr.* (on leave) Sr. Lectr.  
 Bervis, F. C., BSc PhD Sr. Lectr.  
 Mathews, R. T., MSc *Q'ld.* Sr. Lectr.  
 McLaughlin, R. J. W., MSc *N.Z.*, PhD *Cambr.* Sr. Lectr.  
 Ollier, C. D., MSc *Brut.* Sr. Lectr.  
 Marsden, M., BSc Lectr.  
 Thomas, G. A., BSc Lectr.  
 Bowler, J. M., BSc Actg. Lectr.  
 Williams, G. W., BSc DipEd *Wales* Sr. Demr.  
 Starkey, I. J., BSc *Q'ld.* (Geophys.) Sr. Demr.  
 Finlay, Cecily, BSc *Syd* Res. Asst.  
 3 Demrs

### Germanic Languages

Samuel, R. H., DrPhL *Berl.*, PhD *Cambr.*, MA Prof.

Coverdale, Dorothea R., MA DipEd Reader  
 Smit, J., LittD Utrecht, MA  
 (Dutch & Germanic Philol.) Reader  
 Wiemans, H., MA PhD  
 (on leave) (German) Sr Lectr  
 Maclean, H., MA PhD DipEd  
 (German) Sr. Lectr.  
 Meyer, R. P., MA Aust., PhD  
 (Dutch) Sr. Lectr.  
 Ruff, Eva, MA (German) Lectr  
 Schulz, G., PhD Lup (German) Lectr.  
 Hird, Gladys, MA Dunā. (Swedish) Lectr.  
 3 Tutors, 2 Officers†

**History**

Crawford, R. M., BA Syd., MA Oxon. & Melb. Prof.  
 Le Neve, J. A., BA W.Aust., MA Oxon. & Melb. Ernest Scott Prof.  
 Fitzpatrick, Kathleen E., MA Oxon., BA Assoc. Prof.  
 Harper, N. D., MA BEd Assoc. Prof.  
 O'Brien, J. L., BA Camb. & Syd., MA Sr. Lectr.  
 McBain, A. M., DPhil Oxon., BA Sr. Lectr.  
 Mann, J. M., BLitt Oxon., BA Sr. Lectr.  
 Gibbs, Miriam, BA BLitt Oxon. Sr. Lectr.  
 Gardiner, L. R., BA Brist. Sr. Lectr.  
 Mulvaney, D. J., BA Camb., MA Sr. Lectr.  
 Gregory, J. S., PhD Lond., MA Sr. Lectr.  
 Martin, A. W., PhD A.N.U., MA Syd. Sr. Lectr.  
 Kennedy, D. E., PhD Camb., MA Sr. Lectr.  
 Robertson, I. G., BA BPhil Oxon. Lectr.  
 Smith, F. B., MA Lectr.  
 Ruzh, F., BA Lectr.  
 Gough, A. G., BA Actg Lectr.  
 Esswood, Mrs Jennifer J., BA Sr. Tutor  
 Darvall, Anne R., BA Sr. Tutor  
 Pears, J. R., BD Camb., BA Sr. Tutor  
 Batty, N. A., BA Sr. Tutor  
 8 Tutors, 5 Officers†

**History and Philosophy of Science**

Dyason, Diana, MSc Sr Lectr.-in-Charge  
 Clendinning, F. J., BA Sr. Lectr.  
 Ellis, B. D., BA BSc Adel., BPhil Oxon. Sr. Lectr.  
 Bryant, F., BA MSc Lectr.  
 Gasking, Mrs Elizabeth B., BSc Lib., MA Lectr.  
 Trengove, L., BD MSc PhD Lond. Lectr.  
 Potage, J. C., BA Sr. Tutor  
 1 Tutor

**Indian Studies**

Jordens, J. T., PhD Louvain, DipEd Actg. Hd. of Dept.

**Indonesian and Malayan Studies**

MacIs, J. A. C., MA Oxon., BA Sr. Lectr.-in-Charge  
 Sarumpaet, J. P., BA Gadjah Mada, MA Bsc. Lectr.

**Industrial Relations**

Inac, J. E., PhD Lond., BCom (on leave) Reader-in-Charge  
 Bills, G. T., MBA Col., BCom (Indust. Adm.) Sr. Lectr.  
 5 Officers†

**Islamic Studies, see Semitic Studies****Italian, see French****Languages (Science Courses)**

Horwood, E. K., MA Sr. Lectr.-in-Charge  
 Rodgers, Anita H., LLD Gaus. Sr. Lectr.  
 Zatorski, R. J., BA (Soc. Russian) Lectr.  
 Mayes, Mrs Gerda, MA Lectr.

**Law**

Cowen, Z., MA BCL Oxon., BA LLM (Public L.) Prof.  
 Derham, D. P., MBE, BA LLM (Jurisp.) Prof.  
 Ford, H. A. J., SJD Harv., LLM (Comm. L.) Prof.  
 Turner, A. L., BA LLM (Jurisp.) Reader  
 Leyser, J., Djar Freib., LLB (Compar. & Internat. L.) Reader  
 Brett, P. B., LLB Lond., LLM W. Aust., SJD Harv. Reader  
 Downer, L. J., MA Oxon., BA LLB Syd. Sr. Lectr.  
 Mackay, D. F., DPhil Oxon., MA Sr. Lectr.  
 Maher, F. K. H., MA LLB Sr. Lectr.  
 Sharwood, R. L., LLM Calif., BA LLB Sr. Lectr.  
 Mendes da Costa, D., LLB Lond. Sr. Lectr.  
 Waller, P. L., BCL Oxon., LLB Sr. Lectr.  
 Falham, J. D., MA Oxon., BA Sr. Lectr.  
 Phillips, J., BCom LLB Rand. Sr. Lectr.  
 McInerney, M. V., QC, MA LLM (Proced. & Evidence)  
 Searby, R. H., BA Oxon. (Evocators & Trustees)  
 Morris, Rosemary A., LLB (Conveyancing)  
 Emmerson, K. A. M., BA LLB (Taxation)  
 Heymans, A. H. B., BA LLB (Professional Conduct)  
 Hogg, S. G., BCom LLM (Accounts)  
 Morrell, C. F. C., BA LLM (Domestic Relns.)  
 Dunn, R. H., LLM (Criminal Procedure)  
 26 Officers†

**Special Lecturer**

Phillips, P. D., MM, QC, MA LLB

**†Independent Lecturers**

McInerney, M. V., QC, MA LLM  
 Searby, R. H., BA Oxon. (Evocators & Trustees)  
 Morris, Rosemary A., LLB (Conveyancing)  
 Emmerson, K. A. M., BA LLB (Taxation)  
 Heymans, A. H. B., BA LLB (Professional Conduct)  
 Hogg, S. G., BCom LLM (Accounts)  
 Morrell, C. F. C., BA LLM (Domestic Relns.)  
 Dunn, R. H., LLM (Criminal Procedure)  
 26 Officers†

**Mathematics, Pure and Applied**

Cherry, T. M., PhD ScD Camb., BA Camb. & Melb., FAA, FRs (Appl. Maths.) Prof.  
 Love, E. R., PhD Camb., BA Camb. & Melb. (Pure Maths.) Prof.

**AUSTRALIA**

Behrend, F. A., PhD *Berlin*, ScD *Prague*,  
MA

Syer, F. J. D., MBE, PhD *London*, BA  
DipEd

Ryan, J. P., BA BSc

Lester, Margaret, BA

Moppert, C. F., DPhil *Berlin*

Stechen, J. K., BA BSc

Evans, I. A., MSc *Q'nd*, MA *Cambridge*

Barton, J. C., BA BSc

Upton, C. J. F., BA *Oxon*, MA PhD

(on leave) Lectr.

Thompson, B. W., BA BSc DipEd

Gregg, Mre. Dulcie J., BSc *W. Aust.*

Pownall, Elizabeth, BA MSc DipEd

Row, D. H., BSc *Tas*

Rosenthal, D. K., BA

Morley, Daphne, BSc *W. Aust.*

Walsh, B. J., BSc *N.Z.*

Barton, Joyce W., BSc

Russell, A. M., BA *Tas*

Deakin, M. A. B., BA

Officer†

Medicine, see below

Metallurgy, see Engineering, below

Meteorology

Radok, U., BMEchEng *Idaho*, PhD

Schwerdtfeger, P., MSc

Jensen, M. J. D., MSc

Res. Asst.

Microscopy

Matheson, E. A. F., DipOptics *Yuss*

Officer-in-Charge of Lab.

Demr.

Mineralogy, see Geol.

Mining, see Engineering, below

Music

Loughlin, G. F., DMus *Dub.*, MA, FRCO,

FRCM

Ormond Prof., Dir. of Conservatorium

Jones, Rev. P., PhD *Penit. Urb.*

MusDoc *Penit. Inst. Mus. Sacr.*, MA

Vice-Dir. of Conservatorium

Deane, B., BA *BMus Belf.*, PhD *Glas.*

(Theory) Sr. Lectr.

Nicholson, N., DMus *Dub.*, (Theory) Sr. Lectr.

Glickman, J., (Violin & Viola) Sr. Lectr.

Kennedy, J., (Violoncello) Sr. Lectr.

Shepherd, R., (Piano) Sr. Lectr.

Harrison, R., (Piano) Sr. Lectr.

Cook, M., DipMus (Piano) Sr. Lectr.

Sharp, F., (Singing & Opera) Sr. Lectr.

Over 70 Teaching Officers†

## Oriental Studies

Simon, H. P., BA *London*, Hon. MA

Lancashire, D., MA *London*, BD *H.K.*

Yuen, C. M., BA *Peking*

## Pharmacology

Shaw, F. H., PhD *London*, MSc (on leave) Prof

Goshon, S., MB *BS Syd.*, DPM

Brace, D. W., MA *Aberd.*

Lang, W., BSc

## Philosophy

Gibson, A. B., MA *Oxon*, DLitt *Cambridge*, BA

Gasking, D. A. T., MA *Cambridge*, BA *London*

Jackson, A. C., PhD *Cambridge*, MA

McCloskey, H. J., MA PhD

Gunnes, D. L., MLitt *Cambridge*, MA

Armstrong, D. M., BA *Syd.*, BPhil *Oxon*, PhD

Charlesworth, M. J., PhD *London*, MA

McCloskey, Mrs. Mary A., MA PhD

Szednicki, J. T. J., MA

(External Studies) Lectr.

de Graaff, G. E., BPhil *Oxon*, MA

Joske, W. D., MA

D'Arcy, J. E., DPhil *Oxon*, MA

Rice, V. I., MA PhD

2 Tutors, & Officers†

## Physical Education

Dumas, F., MD *Freib.*, MEd

Wilkes, A. W., VRD, BA DipPhysEd *London*, BEd

Gill, Eunice E. P., BA DipEd DipPhysEd

McConchie, Laura J., DipPhysEd

Sanderson, E. R., BA *London*

Netleton, B., BA *London*

19 Officers†

## Physics

Caro, D. E., PhD *Berlin*, MSc, FIP

(Expos. P.) Prof

Mohr, C. B. O., PhD *Cambridge*, BA MSc,

FIP (Theoret. P.) Prof

Cowley, J., DSc *Adel.*, PhD *M.I.T.*, FAA,

FIP Chamber of Manufactures Prof.

Spicer, B. M., MSc PhD, FIP

Hart, F., MSc PhD, FIP

(Automatic Computing) Reader

Cherry, R. O., MSc, FIP

Rouse, J. L., BA MSc PhD

Swan, P., PhD *London*, MSc

Hines, K. C., MSc PhD

Wagnall, J. W., PhD *Cambridge*, BA MSc

McKenzie, C. D., PhD *Berlin*, MSc

Shute, G. G., PhD *Berlin*, MSc

Wilkinson, R. H., BSc

Lokan, K. H., BSc *Adel.*, PhD *ANU*Officer, V. C., MSc *N.Z.*, PhDMathes, K. B., MSc BScEng *Adel*

Sr. Lectr

Lectr

(on leave) Lectr

Sargood, D. G., MSc

Abbey, R. L., MSc

Booth, Ada F., BSc BA

Lachlan, H., MSc

Belzans, A. T., MSc

Allura, F. R., MSc

Hogg, R. W., BSc *Dur.*

Menadue, J. P., MSc

Toussaint, W., DSc *Ley*

McKenzie, Bonnie, MSc

+ Demrs., 2 Officers]

(on leave) Lectr

Lectr.

Lectr.

Asst Lectr

Sr Demr

Sr. Demr.

Sr. Demr

Sr. Demr

Sr. Demr

Sr. Demr

Sr. Demr

Sr. Demr

Lemper Patricia M., MA

Gilchrist, Margaret, BA

Greve, Norma, BA

Tishar, R. C. S., BA

Kotler, Tamara, BA

Williams, J. S., MA *N.Z.*John, I. D., BA *Adel*

Mann, L., BA

Finca, R., MA *N.Z.*

1 Res Officer, 7 Tutors, 3 Officers]

Public Health, see Medicine, below

## Russian

Christensen, Nana, BA *Q'ld.*, MA

Sr. Lectr in-Charge

de Bray, R. G. A., BA PhD *Leid*Christa, B., MA *Camd*

Grisham, D. L., PhD

Uglitzky, Mrs. Zsuzsanna

Yoshunsky, Mrs. Marga R.

1 Tutor

Sr. Lectr

Sr. Lectr

Sr. Lectr

Sr. Lectr

Sr. Tutor

## Semitic Studies

Brownan, J., MA BD *Glar.*, DPhil *Oxon*Molne, N., MA *Glas*Peles, D., MA *Yerusalem*Young, M. J. L., BA *Camd*Culham, W., MA *Edin*

Prof

(Hebrew) Lectr.

(Hebrew) Lectr

(Arabic) Lectr

(Biblical Archaeol) Lectr

Bolster, G., MA BD *Edin*Katz, A. K., BA PhD *Leid*, MA *Leid*Facit *Pang*, *Ulamaya* *di* *Ambar*

(Islamic Studies) Lectr

Martinson, A. E., PhD *ThD* *Heidelberg*

(Compar. Semitic Philol) Lectr

1 Officer]

## Social Studies

Hoban, Eileen R., CertSocSci & Admin *L.S.E.*

BA BCum DipEd Assoc Prof., Dir

Robertson, Jean M., MA DipSecStud *Glas*Therney, L. J., MSc *Cal.*, BA DipSecStud

(Soc. Work Stud.) Supervisor

Wardell, Teresa, DipSecStud

Field Work Administrator

Hyde, Alice, DipSecStud *Lev.*

O'Brien, Mrs. Laurie R. C., BA

Sharp, G. B., MA

Hay, Lorna, CertMentHlth *L.S.E.*

BA DipSecStud

18 Officers]

## Statistics

Bels, M. H., MSc *Camd*, BSc *Syd.*, MA,

FASA (on leave) Prof

Lowett, G. H., BA *Leid*, MA PhD *Shef*Gregory, G., MA *Camd*, MS PhD *Stan*Finch, P. D., BA *Durk*

Asst Prof., Reader

Sr. Lectr

Sr. Lectr

## Physiology

Wright, R. D., MB BS DSc, FRACP Prof.

Ayer, W. T., BSc *Oxon* & *Melb.*, MB BS Reader

Trethewie, E. R., DSc MD BS, MRACP

Reader

Coats, D. A., MB BS *Adel.*

Dewhurst, D. J., BA MSc PhD

Keogh, Patricia P., MSc

Holman, Mollie E., DPhil *Oxon*, MSc

Sr. Lectr

Sr. Lectr.

Sr. Lectr.

Chennells, May H. D., BSc PhD *Leid*Resvon, Margaret A., BPharm *Leid*

Hutchinson, Margaret

Fitch, J. H., BSc

1 Officer, 2 Demrs.

Sr. Lectr

† Lectr

Sr. Demr

Sr. Demr

## Plant Physiology, see Bot.

## Political Science

Ball, W. M., MA Prof

Drives, A. F., MA Reader

Burns, C. L., MA *Oxon*, BA Sr Lectr

Churchward, L. G., MA DipEd Sr Lectr

Wolffahn, H. A., BA Lectr

Huak, E. A., MA Lectr

Jupp, J., MSc (Econ) *Leid* Lectr.Armstrong, K. G., BA *Oxon* & *Melb* Lectr.

Miller, D. F., BA Lectr.

5 Tutors

## Psychology

Owen, O. A., MSc *S.A.*, PhD *Camd*,  
DPhil *Melb.*, MA, FBPoS Prof.Lafitte, P., BSc *Leid*, MA Litt ReaderHammond, S. B., BA *W.Aust.*, PhD ReaderWaterhouse, I. K., BA *Syd*, MA PhD *Yale*,  
FBPoS Sr Lectr.

Jeffrey, A. C., MB BS BSc Sr Lectr

Langley, P. D., BA *W.Aust.*, BEd Sr LectrGardner, G., BA PhD *Leid* Sr Lectr

Graig, A. R., BA Sr Lectr

Hall, A. H., BA *W.Aust.*, PhD *Mum* Sr Lectr.

Walsh, K. W., BA MB BS MSc Sr Lectr.

Cox, F. N., MA MSc *Yale*, PhD Sr LectrKnopfmacher, F., BA *Brat*, PhD *Leid* Lectr

Meitz, J. S., MSc *Rand*  
 ...  
 1 Res. Asst., 1 Tutor

Sr. Lectr. Dennis, C. G., DDS  
 Sr. Tutor Gill, H. I., MDSc  
 Harcourt, J. K., MDSc  
 Grant, A. A., DDS  
 Lam, Allan, BDS  
 Johnson, N. W., BDS  
 5 Sr. Clin. Demos |

Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Sr. Dem.  
 Sr. Dem.

Surveying, see Engineering, below

Swedish, see Germanic Langs.

#### Town and Regional Planning

Ledger, F. W., MA PhD DipTP *Manc.*  
 Sr. Lectr.-in-Charge  
 Bayly, J. J., BArch DipTRP Lectr.  
 Tyson, B. T., BA Comb Lectr.  
 Birnie, F. J., BArch Asst. Lectr.  
 1 Tutor, 21 Officers |

Veterinary Science, see also Vet. Res. Inst., below

Blood, D. C., BVSc *Syd* Prof.

#### Zoology

White, M. J. D., DSc *Lead*, MSc, FRSc, FAA Prof.  
 Drummond, F. H., BSc *W.Aust.*, PhD *Lead*, MSc Reader  
 Burnstock, G., BSc PhD *Lead* (Physiol. Z.) Reader  
 Parsons, P. A., BAgSc *Adel.*, PhD *Canb* (Human Genetics) Reader  
 Boardman, W., MSc *Syd.* & *Melb.* Sr. Lectr.  
 Willis, A. G., MSc *Wales* & *Melb* Sr. Lectr.  
 Folsome, C. E., PhD *Hav.* (Genetics) Sr. Lectr.  
 Gunson, Mary M., MSc Lectr.  
 Thomson, J. A., MSc Lectr.  
 Littlejohn, M. J., BSc PhD *W.Aust.* Lectr.  
 Lowe, Mildred E., MS PhD *Tulane* Lectr.  
 Strangue, V. A., MSc Sr. Demr.  
 Martin, J., MSc Sr. Demr.  
 Dobsonworsky, N., MSc *Leningrad* & *Melb* Sr. Res. Fellow  
 1 Res. Officer, 3 Demos

#### DENTAL SCIENCE

##### Clinical Photography

Tuckfield, W. J., ScD *Northwestern*, DDS, FDSRCS, FACD Hon. Officer-in-Charge

##### Conservative Dentistry

... Prof.  
 ... Reader  
 Campbell, M. J. A., MDSc Sr. Lectr.  
 McIntosh, H. A., BDS Lectr.  
 Macdonald, A. S., MDSc Lectr.  
 Strang, Asa, BDS Lectr.  
 4 Sr. Officers |

##### Dental Prosthetics

Atkinson, H. F., MBE, MSc DDS  
*Manc.*, MDSc, FDSRCS  
 Prof., Assoc. Dean, Fac. of Dent. Sci.  
 Shepherd, R. W., DDS Reader

##### Ethics and Practice Management

5 Officers |

##### Human and Comparative Dental

Anatomy  
 Quail, G. G., BDS Lectr.

##### Medicine

Davis, M. C., MD BS, FRACF | Sr. Lectr.  
 1 Clin. Demr. |

##### Metallography and Dental Materials

Werner, H. W., DSc, FIM, FRACI | Prof.  
 Docking, A. R., MSc, FRACI | Sr. Lectr.

##### Oral Histology and Embryology

Ames, Sir Arthur, CMG, DDS DLO, FRCSed, FRACS, FDSRCS, FDSRCSed, FACD  
 [Prof., Principal, Australian Coll. of Dent.  
 Harcourt, J. K., MDSc | Sr. Lectr.  
 Leventhal, B., BSc DDS *Syd.*, DPhil *Oxon.* | Lectr.

##### Oral Medicine and Oral Surgery

Ames, Sir Arthur, CMG, DDS DLO, FRCSed, FRACS, FDSRCS, FDSRCSed, FACD  
 Prof., Principal, Australian Coll. of Dent.  
 Leventhal, B., BSc DDS *Syd.*, DPhil *Oxon.* (D. & Oral Histol.) Sr. Lectr.  
 Campbell, J. P., MDSc (Oral Surg.) Sr. Lectr.  
 Sealey, V. T., DDS, FDSRCSed  
 (Oral Surg.) | Sr. Lectr.

Fleming, W. E., MB BS DDS DLO (Oral Pathol. & Med.) | Sr. Lectr.  
 Wodlick, Phyllis, MB BS (Anesth.) | Lectr.  
 4 Sr. Demos |

##### Orthodontics

Adams, K. T., DDS, FDSRCS, FACD  
 | Sr. Lectr.-in-Charge  
 5 Sr. Clin. Demos |

##### Periodontics

Storey, E., DDS PhD | Sr. Demr.

##### Pharmacology and Therapeutics

Shaw, F. H., PhD *Lead.*, MSc | Prof.

##### Surgery

Evans, M. R., MB ChB *Edin.*, MSc, FRCS, FRCSed, FRACS | Prof.

Alcock, E. A., BDS MB ChB *Masc*,  
FDSRCS, FRCS, FRACS †Sr. Lectr.  
Tince, A. J., MD BS, FRCS, FRACS †Lectr.

## ENGINEERING

### Agricultural Engineering

Vassy, G. H., BCE Reader-in-Charge  
1 Officer†

### Chemical Engineering

Potter, O. E., MScApp Q'ld., MSc *Lead*,  
PhD *Masc* Reader-in-Charge  
Strauss, W., BChemE MSc ME *Syd*,  
PhD *Sheff* Lectr.  
Agnew, J. B., BE *Syd* Lectr.  
4 Officers†

### Chemistry for Engineering Students

Olver, N. H., MSc Sr. Lectr.  
Sanders, Heather M., BSc *Syd* Sr. Demr.

### Civil Engineering

Process, A. J., MSc PhD *Bonn*, MCE,  
MICE Prof.  
Tullope, D. H., MSc PhD *Water* Reader  
Wood, J. V., BCE St. Lectr.  
Lando, F., DIng *T.H. Darmstadt*,  
DipIng *Bav*, MCE Sr. Lectr.  
Lawson, J. D., PhD *Aberd*, BE *W. Aust* Sr. Lectr.  
Sharp, B. B., ME *Adel* Sr. Lectr.  
Stevens, L. K., PhD *Canb*, BCE  
MEngSc Sr. Lectr.  
Clyde, D. H., BSc(Eng) *Rand*, PhD *Canb*,  
Sr. Lectr.  
Lee, I. K., MEngSc BCE PhD Lectr.  
Arona, S., BCE Lectr.  
O'Neill, I. C., BCE MEngSc Lectr.  
Grigg, W. L., BCE Asst. Lectr.  
Helders, J. C., BCE Sr. Demr.  
6 Officers†

### Electrical Engineering

Moorhouse, C. E., BMechE DEng, MIEE Prof.  
Ferguson, A. E., MEE Reader  
Bowman, T., BSc *Glas*, MEE St. Lectr.  
King-Smith, E. A., BEE MEngSc Sr. Lectr.  
McCutcheon, J. C., BEE Sr. Lectr.  
Cottrav, S. J., BSc(Eng) *Rand* Lectr.  
Hoppe, D., BEE Lectr.  
Bewick, W. J., BEE Lectr.  
Hewitt, D. F., BSc Lectr.  
Davies, D. P., MSc *Rangoon*, MIEE  
(Power System Analysis) Lectr.  
3 Officers†

### Mechanical Engineering

Henderson, P. L., PhD *Canb*, ME *Syd*,  
MMechE, MIMechE Prof.  
Patterson, J., BSc *Belf*, DipGradStud  
PhD *Bryn* Sr. Lectr.

Pengilly, C. J., BE *N.S.W.*, PhD *Bryn*

Svensson, N. L., MMEchE Sr. Lectr.  
Joubert, P. N., BE(Aero) *Syd* Sr. Lectr.  
Clifton, S. J., BE *Syd* Sr. Lectr.  
Pitt, R. St. C., BSc BE *Syd* Lectr.  
Brown, R. H., BMechE SM *M.I.T.* Lectr.  
Lewin, W., BMechE Lectr.  
Rutchie, J. B., BMechE *DipEng* Lectr.  
Mansoor, E. M., BMechE MEngSc  
(Indust. Engin.) Lectr.  
Searls, R. S., BMechE Asst. Lectr.  
Malkin, E. E., BMechE Asst. Lectr.  
Rotenberg, A., GradEng *Tashkent* Asst. Lectr.  
Armstrong, E. J., BSc(Eng) *Lead*,  
MEngSc Asst. Lectr.  
Ward, G. L. Asst. Lectr.  
Tengue, W. G., BMechE Asst. Lectr.  
Samuel, A. E., BMechE Asst. Lectr.  
Ingram, I. D., BMechE Sr. Demr.  
1 Demr., 1 Officer

### Metallurgy

Werner, H. W., DSc, FIM, FRACI Prof.  
Wilks, G. M., MSc  
(on leave) (Chem. M.) Reader  
Wood, W. A., DSc *Manc*, MSc, FIP  
(Metall. Phys.) Reader  
(Phys. M.) Sr. Lectr.  
Cannon, K. J., BEChem *Syd*, PhD *Canb*,  
(Metall. Engin.) St. Lectr.  
Haggart, J. S., BMetE (Mech. M.) St. Lectr.  
Osborne, C. J., PhD *Leigh*, BMetE  
(Engin. Materials) St. Lectr.  
Guern, B. D., MSc (Metall. Analysis) Lectr.  
Barland, D. W., BMetE (Metall.) Lectr.  
Angell, C. A., MSc (Chem. M.) Asst. Lectr.  
Thomson, P., BMetE MEngSc  
(Phys. M.) Asst. Lectr.  
Maj, Sophia Sr. Demr.  
Cullen, G. V., Sr. Indust. Res. Officer  
Evans, D. G., MSc Res. Officer  
Ball, F. A., DrResNat *T.H. Karlsruhe*,  
MSc Res. Officer  
Hemler, J. H., BMetE MEngSc Res. Officer  
McPherson, R., BMetE MEngSc Res. Officer  
Kluza, E. S., BSc *W. Aust* Res. Officer  
2 Officers†

### Mining

Dunkin, H. H., BMetE Assoc. Prof.  
Carr, J. S., BSc BE(Min) *N.Z.*, MS(MetEng)  
*Missouri Sch. of Mines*, SM *M.I.T.*,  
MSc (Ore Dressing) Sr. Lectr.  
Nevill, H. F.-C. (M. Engin.) Sr. Lectr.  
5 Officers†

### Surveying

Thomson-Smith, G. J., BE BSuv *W. Aust.*,  
MCE Assoc. Prof.  
Murphy, B. T., MSurv Sr. Lectr.  
Bevoets, S. G., IrGeod *T.H. Delft* Lectr.  
2 Officers†



**MEDICINE**

(for subjects of first 3 yrs — Anat., etc., see above)

**Anæsthetics**

O'Brien, H. D., MB BS DA

† Lectr.

**Bacteriology**

Rabbo, S. D., PhD DipBact Lond,

BSc MD BS MPS Syd.

Prof

Gmy, D. F., DSc Q'ld, BVSc Syd &amp; Q'ld,

DipBact Lond., MSc DVSc Assoc Prof

Gibson, F. W. E., DPhil Oxon., BSc Reader

Holloway, B. W., BSc Adel., PhD Cal. Tech.,

MSc Reader

Mushum, Rose, MSc PhD Sr Lectr

Mullis, Nancy, PhD Brit., MAgrSc Sr Lectr

Gardner, Joan F., DPhil Oxon., MSc Sr Lectr

Lohenthal, B., BSc DSc Syd.,

DPhil Oxon. Sr Lectr

White, D. O., MB BS Syd., PhD A.N.U.

Sr Lectr

Doy, C. H., BSc W'aler, PhD Lectr

Oliphant, Hilary, BSc St Demr

Fergie, Barbara, BSc Sr Demr

Holmes, I., BSc PhD A.N.U. (on leave) Sr Demr

**Medical Microbiology**

Gillies, R. R., MD ChB DPH Edin.

Reader-in-Charge

Cooper, G. N., MSc PhD Chief Bacteriologist

McAvan, T., Bacteriologist

Moran, A. S. E., BSc W Aust Bacteriologist

22 Officers]

**Child Health**

Collins, V. L., MD DCH, MRCP

Stevenson Prof

Clark, A. L., MD BS, MRACP Second Asst

**Experimental Medicine**

Burnet, Sir P., Macfarlane, OM, PhD Hon.

DSc Lond., ScD Camb., DSc W Aust,

MD, FRCP, FRCPed, FRACP, FAA,

FRS

Prof; Dir., Walter &amp; Eliza Hall Res. Inst

Anderson, S. G., MD BS St. Halsey Res. Office

3 Sr Officers

**Experimental Neurology**

Sunderland, S., CMG, MD BS DSc,

FRACS, FRACP, FAA Prof

**Forensic Medicine**

Bowden, K. M., MS

† Indep. Lectr

4 Officers]

**Materia Medica**

Stanton, B. L., MB BS, MRCP, FRACP Lectr

**Medical History, see Anat.****Medicine**

Dept. of James Stewart Prof.

Lovell, R. R. H., MD BS Lond., MSc,

FRCP, FRACP James Stewart Prof

Doyle, A. E., MD BS Lond., MRCP

Reader, First Asst

Melick, R. A., MB BS Syd., MRCP Fast Asst

Nestel, P., MB BS Syd., MRACP

(on leave) Asst.

Treviña, G., MB BS Asst

Ritchie, B. C., MB BS, MRACP Asst

Denborough, M. A., MB ChB Cape T,

DPhil Oxon., MRCP Res Asst

Dawborn, J. K., MB BS, MRACP Res Asst

8 Officers]

**Dept. of Prof of Med**

de Gruchy, G. C., MD BS, FRACP,

MRCP Prof

Nutt, J. F., MD, MRCP Second Asst

Poy, R. K. P. F., MD BS Asst

4 Officers]

**Normal Psychology**

Senechal, A. J. M., MD BS, MRCP,

FRACP } Lectr

Kington, W. R., BSc MD BS DPM } Lectr.

Stephens, H. J. B., DTM Syd., MB BS

DPM, FRACP } Lectr.

Reynolds, P. G., MB BS } Lectr

**Obstetrics and Gynaecology**

Townsend, S. L., VRD, MD BS DTM&amp;H,

FRCSed, FRACS, FRCOG Prof.

**Professorial Unit at Royal Women's Hospital**

Machny, E. V., MB BS, FRCSed, FRACS

Fast Asst

Brown, J. B., MSc N.Z., PhD Edin.

(Endocrinol.) First Asst

Kloss, M., MB BS Second Asst

Roberts, T. V., MB BS Second Asst

Faulon, J. M. G., MB BS Second Asst

4 Officers]

**Pathology**

King, E. S. J., DSc MD MS, FRACP,

FRCS, FRACS, FAA Prof.

Chastie, G. S., MD BS, FRACS Assoc. Prof.

Hurley, J. V., MB BS PhD, MRACP St. Lectr.

Menzies, D. W., MB ChB Glas. St. Lectr.

Anderson, R. McD., MB BS

(Neuropathol.) Sr. Lectr

Green, C. R., MB BS PhD

Asst. Custos of Museum

Hayward, Nancy J., PhD Lond., MSc

Stewart Lectr

Tange, J. D., MB BS, MRCP Lectr.

Weiner, S., MD Zür Lectr.

McCallum, N. E. W., MSc PhD, FRACI

(Chem. P.) Lectr.

Scroggie, J. G., MSc PhD (Chem. P.) } Lectr.

Bryly, R. C., MSc (Forensic Chem.) Lectr.

10 Officers]

Pharmacy, see *Materia Medica*Psychology, see *Normal Psychology***Public Health**Stevenson, W. J., DTM DPH *Syst* †Lectr**Radiology**

Camp, E. R., DMRE *Camb.*, MD BS †Lectr  
 Lang, C. R., MB BS DDR †Lectr  
 Donnan, M. G. F., MB BS DR *Syst* †Lectr  
 Piper, A. E., MB BS DDR †Lectr

**Surgery**

Erving, M. R., MB ChB *Edu.*, MSc, FRCS,  
 FRCSed, FRACS James Stewart Prof  
 Alcock, E. A., MB ChB BDS LDS *Adans.*,  
 FDSRCS, FRCS, FRACS First Asst  
 Cox, K. R., MB BS, FRCS, FRACS Second Asst  
 Cuthbertson, A. M., MB BS, FRCS,  
 FRACS Second Asst  
 Becht, G., MD (Edu., S.) Lectr  
 Russell, I. A., MB BS, FRACS Third Asst  
 Kuld, Elizabeth E., BSc Res Asst  
 7 Officers†

**Therapeutics**

Frew, J. L., MD BS, MRCP, FRACP †Lectr  
 Clarke, J. E., MD BS, MRCP, FRACP †Lectr

Hughes, J. F., MD BS DTM, MRCP, FRACP

Bottomley, E. E. K., MB BS, MRCP †Lectr  
 Garlick, H. W., MD BS, MRCP †Lectr

**VETERINARY RESEARCH INSTITUTE**

Albiston, H. E., DVSc Du.  
 Pullar, E. M., DVSc Reader  
 Gorrie, C. J. R., BVSc Sr Vet. Res. Officer  
 Jones, T. E., BVSc *Syst* Vet. Res. Officer  
 Leavelle, D. D., BVSc *Syst*, MSc  
 Schuster, Miss Norma H., BSc Vet. Res. Officer  
 Eales, Jean D., MSc Milk Bacteriologist  
 Swan, Joan, MSc Milk Bacteriologist

**R. A. F. ACADEMY****Chemistry**

Schaefer, B. A., BSc DipEd Sr Lectr  
 Douglas, D. M., BSc Lectr

**Mathematics**

Rennie, B. C., PhD *Camb.*, MA Prof

**Physics**

Hopper, V. D., DSc, FIP Prof., Dir. of Studies  
 Ward, J. P., DIC, BA BSc PhD *Lead.*,  
 MIEEE Reader  
 Laby, Jean E., MSc PhD Sr Lectr  
 Denholm, J. V., BSc Lectr  
 Unthank, E. L., BSc BEd Lectr

**ADMINISTRATIVE AND OTHER STAFF**

UNIVERSITY OFFICE. Vice-Chancellor's Branch  
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 FRAlA. Sec., Asst. Vice-Chancellors' Cttee.:  
 Bugadner R. G. H. Living, CBE Archivist: F.  
 Strachan, BA Director, Student Health Service:  
 H. D. Hetherington, MD BS *Lead.* University  
 Draftsman: D. Mendes da Costa, LLB *Lead.*  
 Registrar's Branch Assts. to Registrar: R. B.  
 Osborn, DSO, DFC, MA *Camb.*; I. Barrach,  
 BSc; G. Anderson. Statistical Officer: F.  
 Kathie Guycke, BA Bldg. Branch. Bldgs.  
 Officer: F. E. Bedbrook, BCom Maintenance  
 Officer: R. A. Ellis Accounts Branch. Asst  
 Accountant: M. N. Ferguson, BCom. Schools  
 Bd. Branch. Sec.: J. E. Wafle, MA BEd  
 Admin. Asst.: L. R. Bent Asst. Registrar's  
 Branch. Matric. Officer: H. G. Helms, BA BSc  
 BEd Academic Sec.'s Branch. Publications Officer:  
 P. G. Kelly Scientific, Med & Technical Branch.  
 Sec. (Scientific): A. Sanderson, Sec. (Techni-  
 cal): P. F. Doran, BA Asst. Sec.: I. L.  
 Milne, BA. Student Counsellors' Branch. Student  
 Counsellor: R. R. Priestley, BA Q'ld. Asst  
 Student Counsellors: Marjorie E. Ross, BA, G.  
 Cully, BA Students' Records Branch. Clerk: E.  
 Finn Fee Clerk: R. H. Shuley Admin. Asst.

R. Sheffield Public Events Branch Clerk:  
 F. H. Johnston

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 MM, BA St. Editor: Barbara M. Ramsden,  
 BA Printing Manager: D. H. Wade Retail  
 Manager: F. W. Krohn

UNIVERSITY LIBRARY Dep. Librarian: G. J. L.  
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 Layton, BA. Accessions Librarian: Valerie B.  
 Turnbull, BA Dep. Cataloguer: Margaret J.  
 Hagger, BA. Med. Librarian: Anne Harrison,  
 BA JF Asst. Engin. Librarian: J. S. Greig,  
 BA

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 Fiddian.

AUSTRALIAN COLLEGE OF DENTISTRY. Sec.  
 I. B. Postle, LLB *Tas.* Librarian: Heather N.  
 Rankine.

EXTENSION COMMITTEE. Sec.: M. J. Charles-  
 worth, PhD *Lansdown*, MA

AUDIO-VISUAL AIDS DEPARTMENT. Dir.: N. H.  
 Rosenthal, BA BSc Sr Res. Officer: R. J.

**AUSTRALIA**

Thomson, BA DipEd Syd St Technician.  
G R A. Ogilby

APPOINTMENTS BOARD. Sec: H F. Downes,  
DipCom Asst. Sec: K Gravell, BCom  
Admin Asst.: S J Curtel, BSc

UNIVERSITY UNION. Warden of the Union.  
J B Webb, BA Sec.: D. B. Cairwell

ATHLETICS. Adviser: F. Stampfl

SPORTS UNION. Sec.: W. K. Tickner, DipCom.

## AFFILIATED COLLEGES

NEWMAN COLLEGE, Parkville, N.2, Victoria (tel. 34 5915 (Newman), 34 1032 (St. Mary's Hall)) (R.C.) Rector—Very Rev M. M. Scott, MA MSc Dean—Rev E J Stormon, MA Superior of St Mary's Hall—Mother Francis. 24 Tutors

OLMOND COLLEGE, Parkville, N.2, Victoria (tel. 34 4494). (Presbyterian.) Master—Rev. Prof J. D. McCaughey, MA. 35 other Tutors.

QUEEN'S COLLEGE, Parkville, N.2, Victoria (tel. 34 5568). (Methodist.) Master—R. C. Johnson, MA Oxon., PhD Lond., DSc Lond. & Melb 23 other Tutors.

TRINITY COLLEGE, Parkville, N.2, Victoria (tel.: 34 1001 (Trinity), 34 2208 (Janet Clarke Hall)). (Church of England.) Warden—R. W. T. Cowen, BA Adel., BLitt Oxon., MA Oxon. & Melb Dean—J. R. Poynter, MA Oxon., PhD. Principal of Janet Clarke Hall—Margaret A. Dewey, MA Hove & Melb 36 other Tutors

UNIVERSITY WOMEN'S COLLEGE, Parkville, N.2, Victoria (tel.: 34 2539). (Undenon.) Principal—Angela A. Milne, BSc PhD Adel., MSc 17 Tutors.

## HALLS OF RESIDENCE

INTERNATIONAL HOUSE, Parkville, N.2, Victoria (tel.: 34 2351). Warden—S. G. L. Drummond, BA BCom DipSocStud. 25 Tutors

MEDLEY HALL, 48 Drummond St., Carlton, N.3, Victoria. Warden—G. N. Pearce, BCom

## GENERAL INFORMATION

The Univ. was founded in 1853 by an act of the Victorian legislature and declared open in 1855. Schs of law and med were establd. in 1857 and 1862 respectively. The ceremonial Wilson hall (destroyed by fire in 1952) was opened in 1882, 2 yr. after women students were first admitted; the new hall was opened in 1956. Residential colls. were establd as follows: Trinity, 1872; Olmond, 1881; Queen's, 1888; Newman, 1919. The conservatorium of music was opened in 1895 and the coll. of dent. affiliated with the univ. in 1904. A yr inter schs. of dent. and agric. were establd. By 1920, 2000 students were attending the univ., and during the ensuing 10 yrs. schs. of arts, anat., bot. and geol. were built and the univ. press establd. In 1935 the univ.'s first salaried vice-chancellor was apptd., previous holders of that office having acted in an honorary capacity. 1937 saw the establd. of Union House, a recreation centre for students, and the opening of Univ. Women's Coll. to which major extensions were made in 1952. Chem and comm. bldgs. were opened in 1939. During the second world war the univ. became a centre of technical trg and res. In 1947 enrolments had risen to 9100, and a branch was opened at Mildura for 1st-yr. students in certain sci. facs., this branch was closed in 1949. Twenty-four new chaus were created in the yrs. 1945-58, a second arts bldg. was opened in 1949 and a new floors added in 1956. The Bessemer centre for phys

educn. was completed in 1958 and the Baulieu library was opened in March 1959. The Russell Gramscie sch. of biochem. and the Redmond Barry bldg. were opened and occupied in 1961.

Melbourne (pop. 1,911,895) is the capital and metropolitan city of the state of Victoria

COMPOSITION. The honorific offices are those of chancellor and dep.-chancellor (elected annually by council from among its members); they are assisted by the chief executive officers, viz. the vice-chancellor, registrar and accountant, and their staffs. The council is composed of 33 members—10 elected by grads.; 4 reprs. of the teaching staff, 2 of affiliated colls., 2 of undergrads.; 8 apptd. by the govt. (3 being members of parliament, the others representing business interests and technical schools); 4 ex officio; 1 nominated by the council of Monash Univ.; and 2 co-opted members. Convocation (the body of grads.) elects a standing comm. with certain legislative and advisory functions. There is a professorial bd., and individual courses are controlled by facs. and bds. of studies.

INCOME (1960). £A4,335,993 (principal sources: state govt. grants, 29.1 per cent., Commonwealth govt. grants, 30.9 per cent., students' fees, 22.9 per cent.; pub. exam. and cert. fees, 3.6 per cent.; interest and non-capital donations, 9.9 per cent.; other income, 3.4 per cent.)

**FACULTIES AND DEANS (1962).** *Agric.*, Prof H C. Forster, *appl. sci.*, Prof J. N. Greenwood, *anat.*, Prof B B. Lewis, *anat.*, Prof E. R. Love (maths), *dent. sci.*, Prof Sir Arthur Ames (dent med & surg.), *econ & comm.*, Prof W. Prest (econ.), *educn.*, Prof W. H. Frederick, *engin.*, C. E. Moushouse (electr. engin.), *law*, Prof Z. Cowen, *med.*, Prof S. Sandelind (exper. neurol.), *nurse*, Prof G. F. Loughlin, *sci.*, Prof C. B. O. Mohr (phys.), *vet. sci.*, Prof R. D. Wright (physiol.).

**UNIVERSITY PERIMETER.** The univ. occupies 66 acres to the north of the city (40 acres adjacent to this area are vested in 4 affiliated colls.) The master-plan for future devel. of the campus proper provides for new multi-storey bldgs. on the periphery, to retain the wide grassed areas in the centre of the campus. Other aims are: the conversion of several existing bldgs.; the demolition of obsolete bldgs., the transfer of the med. school diagonally across the campus to the S.W. corner; and the control of parking and traffic problems in the grounds.

**LOCATION OF OUTSIDE DEPARTMENTS.** *Dept of exper. med.*: Royal Melbourne Hosp., Parkville, N.2, Melbourne. *Vet. Res. Inst.*: Parkville, N.2, Melbourne. *Dental coll.*: 193 Spring St., Melbourne, C.1. *Depts. of med.*: Royal Melbourne Hosp., Parkville, N.2, St Vincent's Hosp., Victoria Pde., Fitzroy. *Dept. of surg.*: Alfred Hosp., Commercial Rd., Prahran.

**LIBRARIES.** *Biblioth. libr.*, 189,251 vols. Branch librs.: *agric.*, 6119; *archt.*, 4046; *bot.*, 7043; *chem.*, 6899; *conservatorium*, 1317, *engin.* & *metall.*, 20,931; *for.*, 1288; *geol.*, 11,694; *law*, 21,065; *med.*, 34,350; *phys. educn.*, 1305; *zool.*, 6806. Total, 312,114.

**MUSEUMS.** *Agric.*, *anat.*, *bot.* (herbarium), *chem.*, *dent. sci.*, *geol.*, *hist.*, *music* (Percy Grainger), *pathol.*, *zool.*

**LABORATORIES.** *Agric.*, *anat.*, *bacteriol.*, *biochem.*, *bot.*, *chem.*, *civ. engin.*, *dent. sci.*, *electr. engin.*, *exper. med.*, *geol.* & *mineral.*, *mech. engin.*, *metall.*, *meteorol.*, *mining.*, *obstet.* & *gynaecol.*, *pathol.*, *phys.*, *physiol.*, *psychol.*, *statistics*, *vet. sci.*, *zool.*; also for (field stn), *bot.* (system garden); and several Commonwealth govt. labs. (incl. X-ray and radium, and C S I R O. sections) *Vet. Res. Inst.*, Parkville. *Walter & Eliza Hall Res. Inst.*, in connexion with Royal Melbourne H.

**TEACHING HOSPITALS.** *General Hosp.*: Royal Melbourne H., Alfred H., St. Vincent's H., Prince Henry's H. *Special Hosp.*: Royal Women's H., Queen Victoria Memorial H., Royal Children's H., Victorian Eye and Ear H., Fairfield H., Royal Park Receiving House.

**ADMISSION.** See Appendix III.

**NON-MEMBERS OF THE UNIVERSITY** are not admitted to classes.

**PUBLIC EXAMINATIONS.** The univ. through its schools' bd. holds sch. inter. and sch. leaving

exams, throughout Victoria annually. Pupils of certain secondary schs. (approved after inspection) may obtain credit on headmaster's cert. without sitting for external exam. The matric exam (1 yr. after sch. leaving) is held for pupils seeking to enter the univ. Sp. provision exists for matric. of adults. See also Appendix III.

**FIRST DEGREES.** 3 yrs.—BA ordinary, BSc ordinary, BScF, BCom ordinary, 4 yrs.—BA honrs [note intensive than mid degree students take either 1 or 2 of the following honrs schs. Chinese, classical studies, econ., Engl. lang. & lit., fine arts, French lang. & lit., geog., Germanic langs., hist., hist. & philos. of sci., Italian lang. & lit., mathl. stats., maths., philos., pol. sci., psychol., Russian lang. & lit., Semitic studies], BSc honrs [after completion of 3 yrs' study required for ord. degree, honrs students proceed to 1 yr's res. in either 1 or 2 of the following schs.: biochem., bot., chem., engin., geol., metall., microbiol., pharmacol., phys., physiol., psychol., zool.], BCom honrs, LLB pass, honrs, BMus, BE (in agric., engin., civil, mining, metall., electr., mech. and chem. engin.), BSurv, BAgrSc (incl. 1 yr. at an approved agric. coll.), BEd, BAAppSc, BTRP, 3 yrs.—BArch, BDes, 6 yrs.—MB BS. The univ. is prohibited by act of parliament from conferring degrees in div., degrees of BD and DD are conferred by the Melbourne Coll. of Divinity (non-univ.)

The BA and BCom (incl. accty. etc.) courses are the only degree courses which can be completed on a pt-time basis.

**HIGHER DEGREES.** Open to bachelors of 1 yr's standing—MAgrSc, MAppSc, LL.M., MEngSc, MMus; 2 yrs.—BEd, MSc (in some cases, 3 yrs.), MScF, MD, MS, MDSc, MVSc, MTRP, 3 yrs.—MEd, ME, MSurv, DMus, DVSc; 4 yrs.—DSc, LLD, DDes, 5 yrs.—DAgrSc, DAAppSc, DEng, MArch, MGO, DArch, 7 yrs.—LitD. The MA and MCom are open to bachelors (honrs.) of 1 yr's standing and bachelors (ord.) of 3 and 2 yrs' standing respectively. These represent min. times which must elapse before degree is taken out, e.g. an MA degree may be awarded 1 yr. after BA honrs. has been conferred. The BEd course can be taken after graduation in any other fac. The PhD degree can be taken in all facs. Standing required before admission to PhD course varies according to the fac. in which prior degree was taken. Courses of med. postgrad. study arranged by sp. colls. on which univ. is represented.

**HONORARY DEGREES.** Master in any fac. (or bachelor where there is no master's degree); doctor in any fac.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** DPH, open to med. grads of Melb. and persons qualified for registration as med. practis. in U.K., 12 mos., ophthalmol., laryngol. & otol., therapeutic radiol., diagnostic radiol., anaesthetics and psychol. med. (DO, DLO, DTR, DDR, DA, DPM), open by exam to med. grads.

of 3 yrs' experience in practice. Dietetics (Dip Diet), 1 yr following BSc or BAgtSc course, educn, nuclear engin, nuclear sci, criminal (DipEd, DipNucEng, DipNucSci, DipCrim), 1 yr following graduation, journalism, phys educn, pub admin, town and regional planning, psychol (DipJours, DipPhySci, DipPubAdmin, DipTRP, DipPsych), 2 yrs' undergrad study, music, soc studies (DipMas, HDipMas, DipSci Stud), 3 yrs' undergrad study; DipAgt, Dip ArchDes, 4 yrs' undergrad study.

**RESEARCH.** Facilities for postgrad res. on advanced study in all depts. Details of recent and current res activities published annually in *Report of Res & Investigation and Discovery* (see 'Publications' para., below).

**FEES.** Matric, £A3 3s., degree (except dent sci, £A10 10s.), £A13 13s.; degree courses in agric, 4 yrs, £A441, appl sci, 4 yrs, £A472; archt, 5 yrs, £A348, arts, 3 yrs, £A286, 4 yrs, £A343, comm, 3 yrs, £A340, 4 yrs, £A352, dent sci, 5 yrs, £A820, educn, 2 yrs, £A138, engin, 4 yrs, £A472, law, 4 yrs, £A463, med, 6 yrs, £A848, music, 4 yrs, £A472; sci, 3 yrs, £A358, 4 yrs, £A433; bldg, 4 yrs, £A134; town planning, 4 yrs, £A472, dipl. courses in soc studies, 3 yrs, £A350, town & regional planning, 3 yrs, £A167; pub admin, 2 yrs, £A222, archt des, 4 yrs, £A155; journ, 2 yrs, £A159; music, 3 yrs, £A347; phys educn, 4 yrs, £A312, criminal, 1 yr, £A288, psychol, 2 yrs, £A309; agric, 4 yrs, £A420, educn, 1 yr, £A89; nuclear engin, 1 yr, £A77, nuclear sci, 1 yr, £A77, dipl. fee, £A5 5s.; sports entrance fee, £A1 10s., annual sports fee, £A3; union entrance fee, £A4 4s.; annual union fee, £A6; SRC fee, £A1 5s 6d., registration fee, £A7 7s.

**ACADEMIC YEAR.** March to Dec. 4 terms (the 4th an exam. term) of 10 wks, 9 wks, 7 wks, 7 wks.

**ADULT EDUCATION.** Adult educn in Victoria, formerly directed by the univ, extension bds, is now controlled, under provisions of a sp. act of parliament, by the council of adult educn, a body indep. of the univ.

**VACATION COURSES.** No regular courses provided by the univ, but from time to time certain depts. arrange sp. courses during long vacations.

**PRINCIPAL 'OPEN' AWARDS.** Antchison scholp., Commonwealth scholps. (see p. 12), Dick bursaries, free places, Gowers scholps., Moorn bursaries, Rest-Home bursary, senior govt. scholps., war bursaries. There is a students' loan fund which will make loans of up to £A150 p.a. under certain conditions.

Sir Thomas Lyle fellowship in phys., H. W. C. Simpson res. scholp., Georgina Sweet fellowships in (a) econ zool, (b) med., (c) econ. geol.; Hush and Olga Taft interchange scholp.; Dunlop Rubber Co. res. scholps in phys. and chem.; Vacuum Oil Co res. scholp., Sir John

and Lady Huggins res. scholp.; Sir Arthur Sims travelling scholp.; Daxson res. scholp. in engin.; Margaret Catto scholp.; grants and scholps. from Commonwealth and Victorian state govt funds; General Motors-Holden's scholp.; Williams' scholps., I.C.T.A.N.Z res fellowships (2); Grimwade prize, Hushon-Hughesbotham scholps.; Ernest Scott prize, David Syme res prize.

**APPOINTMENTS BOARD.** The bd. provides an employment service for men and women with univ. t.g. It has reciprocal agreements throughout Australia and the UK whereby bds of other univs make their services available to grads. and undergrads of the Univ. of Melbourne. The bd also arranges vacation work. Sec.: H. F. Downes, DipComm.

**GRADUATE UNION.** In 1938 a grads' section of the Melbourne Univ. union came into being. By 1954 membership of the soc had risen to over 2500. As from 1953 the grad soc has had indep. status under the council as the grad. union. The union produces its own publication, *The Melbourne Grad.* (monthly newsletter). Women grads. may belong to the Melbourne women grads' assocn, a branch of the Australian (and International) Federation of Univ. Women.

**RESIDENCE.** The residential colls accomm. over 600 resident students. Trinity Coll. (£A315 for read yr. of approx. 30 wks), 163 students, Janet Clarke Hall (£A280), 82 students, Ormond Coll. (£A285), 230 students, Queen's Coll. (£A270), 152 students, Newman Coll. (£A240), 188 students, St Mary's Hall (£A198), 58 students, University Women's Coll (£A280), 126 students. Tuition is provided at all residential colls. (See also p. 54).

Halls of residence, International House (£A7 10s per wk.), 73 students; Medley Hall (£A3 12s. per wk.), 47 students.

**MILITARY AND AIR FORMATIONS.** Melbourne Univ. regiment (military) and univ. air squadron.

**STUDENT HEALTH SERVICE.** H. D. G. Hetherington, MD RS Lond., dir. of student health, conducts a full-time student health service. The service begins with compulsory med exam. for freshers. In addition SRC conducts a free eye-testing scheme in conjunction with the Aust. Coll. of Optometry. Bulk anti-polio injections available for both staff and students.

**STUDENTS' REPRESENTATIVE COUNCIL.** Established in 1945, organizes student functions and services and supervises clubs and socs.

**STUDENTS' UNION.** Union House, established in 1937, is the centre of student activities; it is governed by the union bd. of management, on which both staff and students are represented. The bldg. includes a theatre, art gallery, library (Rowden White), reading rooms and cafeteria.

**ATHLETIC FACILITIES.** Facilities for cricket, football, athletics, tennis, hockey, basketball, baseball, rowing, squash racquets, fencing, lacrosse.

**PUBLICATIONS** *Calendar* (June), 12s. 6d. net (handbooks containing extracts and general information relevant to each fac. publ. separately, 3s. and 6s. each); *Annual Exam Papers*, in sets, 6s. each; *Handbook of Public Exams*, 12s. 6d.; *Conservatorium Prospectus*; *Manual of Public Exams*, in *Musae*; *Report of Res and Investigation*, *Univ Gazette* (containing academic news and official announcements), publ. during term; *Discovery*, illustrated acct of res activities at the univ, publ. occasionally, for official distribution and for sale at 2s. 6d.; *Melbourne Graduate* (monthly newsletter of grad union); *Circulars to Schools*, publ. about 10 times a yr. and forming a link between the univ and the secondary schs; *A History of the Univ. of Melbourne*, by Prof. Ernest Scott (Melbourne Univ Press, 1936) (0/p);

*The Univ of Melbourne, a centenary portrait*, by N H Oliver and G Blaney (Melbourne Univ Press, 1956, 12s. 6d.); *A Centenary History of the Univ of Melbourne*, by G Blaney (Melbourne Univ Press, 1957, 37s. 6d.); *Students' journals* *Melbourne Univ Magazine* (annual), *Parrago* (weekly), *Speculum* (medical); *The Morgue* (commerce); *Res Judicata* (law); *Science Review* (sci.), *Cranks and Nuts* (engin.)

The MELBOURNE UNIVERSITY PRESS, founded in 1922, publishes works by members of the univ. and other writers on learned subjects in Australia and New Zealand. It also sells text-books and caters for students' requirements in stationery and apparatus (See also p 53)

## THE YEAR 1961

**PRINCIPAL BENEFACTORS** Anti-Cancer Council of Victoria, £A68,626 for various projects, Mod Res Endowment Fund, £A53,669 for res, £A4,340 from Reserve Bank of Aust. for various purposes, £A43,563 from Nat Inst of Health (U S A) for res, £A30,000 from Sir Rowden White for prof unit at Royal Women's Hosp., £A25,000 from Kodak (A'sia) Pty Ltd, towards cheer of radiol, £A24,627 from estate of Mrs E E Norris for Nell Norris scholars fund, £A22,850 from Wool Res Trust Fund; £A14,000 from E. A. Cato for cheer of psychiatry, £A11,500 from estate of A. McDonald, £A10,256 from estate of Grace M. Turner

**RETIREMENTS** Prof W. Davies (org chem), J. C. Woodhouse (acid sec); Dr J. S. Rogers (dean of grad studies).

**RESIGNATIONS** A. S. Ayub (Indian studies); R. Se. C. Johnson (classics), apptd. prof. of classics, sch. of gen. studies, A.N.U.; R. Lauffer (French), apptd. prof. of French, Monash; Prof P. F. Donovan (comest law), apptd. trade commissioner in Italy; Prof. J. Reich (conserv. dent).

**DEATHS** Emer. Prof C. A. Scott (chemical philol)

### Statistics

#### STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time	External
Men	5333	1022	492*
Women	2143	1030	144
Total	7476	2052	636*

\* Includes 49 at R. A. A. F. Coll., Pt Cook

**Distribution by Field of Study** *Agric* 30, 208, *appl sci*, 71; *archit*, 423, *arts*, 3525, *comm*, 1036, *criminal*, 6, *dent* 21, 162, *educn*, 765, *engin*, 728, *for*, 21, *journalism*, 57, *law*, 1243; *med*, 972, *music*, 191, *phys educn*, 180; *psychol*, 3, *pub admin*, 27; *sci*, 1602, *sec stud*, 102, *town & regional planning*, 58.

Included in the figures above are —

Postgraduate students, 409

New admissions, 3000

Students from other countries, 513

**DEGREES AWARDED (1961)** *Agric*, BAgSci, 41; MAgSci, 3, PhD, 1; *Archit*, BArch, 28; *Arts*, BA hon, 67, BA, 298; MA, 17; PhD, 4; *Comm*, BCom hon, 10; BCom, 172; MCom, 1; *Dent* 21 BDS, 15, MDS, 1; *Educn*, BED, 52; MEd, 3; *Engn*, BE, 120, MEngSci, 11, MEng, 2; *Law*, LLB hon, 15; LLB, 98; *Med*, MB BS, 158, MD, 7; PhD, 4; *Mus*, BMus, 23; *Sci*, BSc hon, 5, BSc, 189; BScF, 2, MSc, 31; DSc, 4, PhD, 11; *Soc*, BSc, 1

**DIPLOMAS AWARDED (1961)** *Educn*, DipEd, 63, *Journalism*, DipJourn, 3; *Med*, DDR, 1; DPM, 9; DO, 4; *Mus*, DipMus, 5; *Pub admin*, DipPubAdmin, 4; *Soc studies*, Dip SocStud, 18, *Town & regional planning*, DipTRP, 3

# MONASH UNIVERSITY\*

Founded 1958

Postal Address: Box 92, Clayton, Victoria, Australia

Cables and Telegrams: Monashuni, Melbourne

Telephone: 544-0481

VICEROY—H E THE GOVERNOR OF VICTORIA, Sir DALLAS BROOKS, KCB, KCMG, KCVO, DSO,  
Hon. LL.D. *Melb*

CHANCELLOR—Sir ROBERT R. BLACKWOOD, MCE BEE *Melb*, MBEAust

DEPUTY-CHANCELLOR—M. CHAMBERLIN, OBE

VICE-CHANCELLOR—J. A. L. MATHERSON, MBE, MSc *Manc.*, PhD *Birm.*, MCE *Melb*, MICE

DEAN OF MEDICINE—R. R. ANDREW, MD *Melb.*, FRCP, MRACP

REGISTRAR—FRANCIS HENRY JOHNSON, MA *Oxon.*

LIBRARIAN—E. H. CLARK, BA *Melb.*

## TEACHING STAFF

Anatomy			English		
Schofield, G. C., MD ChB <i>N.Z.</i> , DPhil <i>Oxon.</i>			Crisp, J. D. C., ME <i>Adel.</i>		Sr. Lectr.
Bissett, D. M., MB ChB <i>N.Z.</i>	St. Lectr.	Prof.	Murray, N. W., BE <i>Adel.</i> , PhD <i>Manc.</i>		Sr. Lectr.
Wilson, A. S., MB ChB <i>Glasg.</i>	Lectr.		Phillips, J. A., MSc <i>Melb.</i>		Sr. Lectr.
1 Histologist, 5 Demos			Sinclair, C. G., BScTech <i>Manc.</i> , MSc <i>Alta.</i> , PhD <i>Syd.</i>		Sr. Lectr.
Chemistry			1 Lab. Manager		
Brown, R. D., MSc <i>Melb.</i> , PhD <i>Lond.</i>		Prof.	English		
Eastwood, F. W., MSc <i>Syd.</i> , DPhil <i>Oxon.</i>			Scott, W. A. G., BLitt <i>Oxon.</i> , BA <i>Melb.</i>		Prof.
Wilson, I. R., MSc <i>Syd.</i> , PhD <i>Q'ld.</i>	Sr. Lectr.		Bradley, D., BA <i>Melb.</i> , & <i>Gamb.</i>		Sr. Lectr.
Heffernan, M. L., MSc PhD <i>Melb.</i>	Lectr.		Muscke, D. C., MA <i>Oxon.</i> , BA <i>Adel.</i>		Sr. Lectr.
O'Dwyer, M. F., MSc <i>Syd.</i> , PhD <i>Nor.</i>	Lectr.		Green, Mrs. Dorothy, MA <i>Syd.</i>		Lectr.
Middleton, S., BSc PhD <i>Melb.</i>	Lectr.		Johnson, Mary de C., MA <i>Melb.</i> , CertEd <i>Lond.</i>		Lectr.
Yount, Mrs. Jean B., MSc <i>Melb.</i> , PhD <i>Lond.</i>	Lectr.		Steele, W. B., BA <i>Melb.</i> & <i>Durh.</i> , DipEd <i>Melb.</i>		Lectr.
4 Sr. Teaching Fellows, 1 Lab. Manager			Tolley, A. T., BA <i>Oxon.</i>		Lectr.
Economics			1 Sr. Teaching Fellow		
Cochrane, D., BCom <i>Melb.</i> , PhD <i>Camb.</i>		Prof.	History		
Pearson, K. S., BA <i>W. Aust.</i>	Sr. Lectr.		Lagge, J. D., MA <i>Melb.</i> , DPhil <i>Oxon.</i>		Prof.
Sindelar, W. A., MCom <i>Melb.</i> , DPhil <i>Oxon.</i>			Serie, A. G., BA <i>Melb.</i> , DPhil <i>Oxon.</i>		Sr. Lectr.
Pursell, G. G., BSc <i>Syd.</i>	Sr. Lectr.		Skinner, C., BA PhD DipEd <i>S. Lond.</i>		(Indonesian) Sr. Lectr.
Snape, R. H., BCom <i>Melb.</i>	Lectr.		Bolton, G. C., MA <i>W. Aust.</i> & <i>Oxon.</i> , DPhil <i>Oxon.</i>		Sr. Lectr.
Ward, I. D. S., BCom <i>Melb.</i>	Lectr.		Broadhead, H. S., BA <i>N.Z.</i> , MA <i>Melb.</i>		Lectr.
Brogan, B. W., BCom <i>Melb.</i>	Lectr.		Cuthbert, D. D., MA <i>N.Z.</i>		Lectr.
Chunee Ross, A. I., BA <i>Melb.</i> & <i>Camb.</i>	Lectr.		Fleming, L., BA <i>Lebanon</i> & <i>W. Aust.</i>		Lectr.
McGregor, L., BCom <i>Melb.</i>	Lectr.		Moore, R. J., BA <i>Melb.</i>		Temp. Lectr.
McLaren, G. C., BCom <i>Melb.</i>	Lectr.		1 Sr. Teaching Fellow, 1 Teaching Fellow		
1 Sr. Teaching Fellow			Mathematics		
Engineering			Westfold, K. C., MA BSc <i>Melb.</i> , DPhil <i>Oxon.</i>		Prof.
Hunt, K. H., MA <i>Oxon.</i> , MMEchE <i>Melb.</i>		Prof.	Smith, G. C., MA <i>Camb.</i> , BSc <i>Lond.</i>		Sr. Lectr.

\* Member of the Association of Universities of the British Commonwealth

Watterson, G. A., MA *Med*, PhD *A.N.U.*

Leslie, H., MA BSc PhD *Med* Sr. Lectr.  
 Cumming, Mrs. Betty L., MA *Med* Lectr.  
 1 Sr. Teaching Fellow Lectr.

#### Medical Biochemistry

Bornstein, J., MD DSc *Med*, FRACP Prof.  
 Linnane, A. W., BSc PhD *Syd* Reader  
 Austin, L., BSc PhD *Med* Sr. Lectr.  
 Lowthion, D. A., BSc *Leeds*, PhD *Lond* Sr. Lectr.  
 Parsons, I. C., MSc *Med* Lectr.  
 1 Teaching Fellow

#### Modern Languages

Lauffer, R. M. A., *L&L Paris* Prof.  
 Battell, R. A., MA BSc *N.Z.*, DU  
 Cd'Epr *Paris* Sr. Lectr.  
 Bodi, L., PhD *DupEd Ind* Sr. Lectr.  
 Kinsop, W., BA *Syd*, DU *Paris* Sr. Lectr.  
 Redmond, Mary, MA *Med* Lectr.  
 Keller, E., PhD *Zür* Lektor  
 Beaton, K. B., BA *DupEd Trin* Lectr.  
 Bloome, P., BA *Nott* Lectr.  
 1 Sr. Teaching Fellow

#### Pathology

Nann, R. C., MD PhD *Lav* Prof.

#### Philosophy

Morao, D. H., MA *N.Z.* Prof.  
 McGeehan, J. E., BA *W Aust*, BPhil *Oxon* Sr. Lectr.  
 Rankin, K. W., MA PhD *Edin* Sr. Lectr.  
 Williamson, J., BSc *Mass*, MA *Lond* Lectr.  
 Chopin, Y. N., MA *Paris (J.)*, PhD *Lond* Lectr.  
 Grant, L. B., MA *Med* Lectr.  
 1 Sr. Teaching Fellow

#### Physics

Street, R., MSc PhD *Lond*, FIP Prof.  
 Bolton, H. C., BSc PhD *Lond*  
 (Theoret. P.) Prof.  
 Ruchinger, W. A., MSc PhD *Med* Sr. Lectr.  
 McLaren, A., BSc *Tas*, PhD *Comb.* Sr. Lectr.  
 Smith, J. H., BSc *Nott*, PhD *Sheff* Sr. Lectr.  
 Costes, D. W., BSc PhD *Nott* Lectr.  
 Perlman, H. S., BSc PhD *Med* Lectr.  
 Troup, G. J. F., BSc *Med*, MSc *Lond* Lectr.  
 1 Sr. Teaching Fellow, 3 Teaching Fellows,  
 1 Lab. Manager

#### Physiology

McIntyre, A. K., MB BS DSc *Syd* Prof.  
 Bentley, G. A., BSc PhD *Med* Sr. Lectr.  
 Phillips, J. W., BSc *Syd*, PhD *A.N.U.* Lectr.  
 Vesio, J. L., MB ChB BSc *N.Z.* Lectr.  
 1 Sr. Teaching Fellow

#### Politics

Davis, S. R., LLB *W Aust*, PhD *Lond* Prof.  
 Martin, R. M., MA *N.Z.*, PhD *A.N.U.*  
 Feith, H., MA *Med*, PhD *Corn* Sr. Lectr.  
 Wallis, M. J., BA *R'dg*, PhD *Lond* Lectr.  
 1 Sr. Teaching Fellow

#### Zoology and Comparative Physiology

Marshall, A. J., BSc *Syd*, DPhil DSc *Oxon* Prof.  
 Esley, E. H. M., MSc *Syd* Sr. Lectr.  
 Hancock, I. D., MSc PhD *Adel* Sr. Lectr.  
 Williams, W. D., BSc PhD *Lau* Lectr.  
 Warren, J. W., MA PhD *Calif* Lectr.  
 2 Sr. Teaching Fellows, 2 Teaching Fellows,  
 1 Lab. Manager

## ADMINISTRATIVE AND OTHER STAFF

ROBERTSON'S DEPT. *Heads of Sections*. Finance: I. B. Tate, BCom *Med*. (Accountant) Academic: J. D. Butchart, BA *Med*, BEc *Syd* (Asst Registrar) Bldgs & Grounds: W. C. A. Wheatland, BArch *Med* (Staff Architect). Bldgs. Sec: N. F. Perry, BA *Brist* Staff. Misc: Joan A. Dawson, BA *Med*, Publishers & Pub. Reins.: J. L. Waterhouse, BCom *Med*. (Asst to Vice-Chancellor) Records & Stats: J. Thacker, BCom *Med* (Stats. Officer). Other Admin Staff: Academic: V. G. Browne, BA *Syd*; Carolyn Russell, BA *Syd*; A. W. Fudley, MSc *N.E.* Finance: L. W. Candy; R. J. Slavin, D. J. Campbrell; W. C. Pasbanks, N. A. Watt. Bldgs & Grounds: G. R. House, K. A. B. Klingender, BSc, FRAIA, F. J. P. de Kever;

W. V. Mitchell; T. Rossmet, BACh *Med* Staff: Mary I. Baldwin; Mrs. Helen Mackinnon. Records & Stats.: Agnes H. Simonow, MA PhD Eds. (Filing Officer)

LIBRARY. Accessions Officer: K. A. R. Horn, BA *MonB N.Z.* Ref. Officer: T. B. Southwell, BA *Syd*. Sr. Librarian: Mrs. Jacqueline Bailie, BA LLB *Med*. Sr. Cataloguer: Alberta J. Winduss, BA *Med*.

HALL OF RESIDENCE. Warden: J. A. McDonnell, MA BSc DPhil *Med*

UNIV. UNION. Warden: G. P. T. Sweeney, BCom *DupEd Med*.

## GENERAL INFORMATION

Monash Univ., which has been named after Sir John Monash, a distinguished soldier and engineer, was established by act of the govt. of Victoria in

1958 to meet the pressure on the Univ. of Melbourne of a rapidly growing population of young people. It was opened by the premier of Victoria,



Mr H. E. Bolte, on March 12, 1961. The permanent council took office in July 1961, planning up to that date having been done by an interim council of 25 persons widely representative of academic and professional life in Victoria. Instruction began on March 13, 1961, in the face of arts, econ. & pol., engin., med. and sci.

Melbourne (pop. 1,911,897) is the capital and metropolitan city of the state of Victoria.

**CONSTITUTION.** The governing authority of the univ. is the council consisting of not more than 36 members and constituted of 9 persons appointed by the govt. in council, 2 elected by gradts., 8 by facs, 2 profs. or deans, 1 elected by teaching staff other than profs., 5 ex-officio and 4 co-opted members, 2 hds. of affiliated instns and 1 member of Univ. of Melbourne council; there is provision for representation of students. The main academic body, the professional bd., was established in 1960 and is charged with responsibility for all questions relating to studies and exams. The facs, which are subordinate to the bd., were established in 1961.

**INCOME (1961).** £A3,317,000 (capital grants). Commonwealth govt. 38 per cent., state govt. 37 per cent.; gen. purposes. Commonwealth govt. 7 per cent., state govt. 17 per cent.; student fees 1 per cent.).

**FACULTIES AND DEANS (1962)** Arts, Prof. W. A. G. Scott (Engl.), econ. & pol., Prof. D. Cochrane (econ.); engin., Prof. K. H. Hunt; med., Prof. R. R. Andrew; sci., Prof. K. C. Westfold (maths).

**UNIVERSITY PLACENT.** The 250-acre site at Clayton, a suburb some 12 miles E-S-E of Melbourne, is being developed in accordance with a plan which provides for the siting of the bldgs. in the form of a stylized 'U', the open end facing eastwards towards the distant Dandenong Ranges. The bldgs. will be on the more elevated portion of the site and part of the area is reserved for sports grounds. The 5 facs of arts, econ. & pol., engin., med. and sci. are at present functioning in these parts of the sci. and engin. bldgs. so far completed. The sci. and engin. library bldg. is also in use as main univ. library and half of Alfred Deakin hall of residence is completed and occupied. Work has begun on first stages, planned for completion in 1963, of med. sch., Robert Menzies Sch. of Humanities and main univ. library. The plans provide for completion at a total cost of £A20-£A30 million by 1968, by which time the univ. will have some 8000 students.

**LIBRARIES.** The libr., already (April 1962) consisting of 80,000 vols., is being rapidly developed. In addition to the main lib., there will be separate librs. of med., sci. and engin., and possibly law.

**LABORATORIES.** J1. & sr. chem., J1. & sr. phys., sr. 2001.

**ADMISSION.** See Appendix III.

**NON-MEMBERS OF THE UNIVERSITY** are not at present admitted to classes.

**FIRST DEGREES.** 3 yrs.—BA pass, BEc pass,

BSc pass, 4 yrs.—BA honrs., BEc honrs., BE pass, honrs., BSc honrs.; 6 yrs.—MB BS pass.

First degrees in the facs of arts and econ. & pol. may be taken on the basis of pt-time attendance at the univ., but there are at present no avg. classes.

**HIGHER DEGREES.** PhD is available in all facs and master's degrees are available in the facs of arts, econ. & pol., engin. and sci. The detailed requirements are under consideration.

**RESEARCH.** Expanding facilities for res. in all facs. Details of those available in 1962 may be obtained on request.

**STUDY LEAVE.** Academic and admin. staff, 1 yr. on full salary after 6 yrs. of service, or *pro rata*. Travel allowances may be granted.

**FEES.** For a full-time undergrad. student in any fac, annual fee is £A135. There are no other charges for such items as music, exams, graduation, union, etc. Pt-time fees vary according to fac. and yr. Annual fees for higher degrees: master's degree (arts, econ. & pol., engin., sci.), £A45; PhD, £A30.

**ACADEMIC YEAR.** March to Nov. 2 terms of 9 wks. each, 1 term of 7 wks.

**PRINCIPAL 'OPEN' AWARDS.** Commonwealth scholarships, Govt. scholarships.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Shell postgrad. schol., Monash Univ. postgrad. schol., Australian Dairy Produce Bd. postgrad. studentships, Commonwealth postgrad. awards, C S I R O. postgrad. studentships, General Motors-Holden's postgrad. res. fellowships, Rothmans fellowships.

**STUDENT RESIDENCES.** At present there is accomm. for 50 men and 30 women in the part-completed Alfred Deakin hall of residence. There will ultimately be residential accomm. for 3000-4000 students.

**STAFF RESIDENCES.** There are no staff residences. There is, however, a staff members' home-purchase scheme by which loans up to 90 per cent. of property valuation may be secured from the univ.'s banks and contain life insurance aspects.

**STUDENT HEALTH SERVICE.** A free med. exam. for students is conducted in collaboration with the dept. of health, Victoria. It includes antipolymyelitis immunization.

**UNIVERSITY UNION.** The union, bldg. of which will begin in 1963 and be completed in 1965, will provide for extra-curricular activities of students and staff. It will be managed by a bd., already in being, on which staff and students are represented. Within the union, the students' rep. council organizes and encourages all kinds of extra-curricular activities except sports, which are the responsibility of a sports cttee.

## THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS: Bldgs. completed: maths & phys. jr lecture theatres, sci central block; sci-engin library. Approaching completion: engin 1st stage, sr phys, m. chem, zool. & compar physiol, 1st part of Alfred Deakin hall of residence.

## Statistics

STUDENT NUMBERS, 1962  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	502	46
Women	213	13
Total	715	59

Distribution by Faculties: Arts, 363; econ & pol, 151; engin, 41; med, 136; sci, 83. Total: 774

Included in the figures above are:—

Postgraduate students, 51

New admissions, 529

Students from other countries, 56. (Countries from which largest numbers came: Singapore & Fed. of Malaya, 32; Hong Kong, 7; Borneo, 6; Vietnam, 5; Indonesia, 3)

# UNIVERSITY OF NEW ENGLAND\*

Founded 1954; previously established as New England University College, 1938

Postal Address: Armidale, New South Wales, Australia

Cables and Telegrams: University, Armidale

Telephone: Armidale 2231

VICEROY—H. E. THE GOVERNOR OF NEW SOUTH WALES

CHANCELLOR—P. A. WRIGHT, CMG, Hon. DSc

DEPUTY CHANCELLOR—Re. Rev. J. S. MOYTS, CMG, MA *Adel*, DD *Tor*, ThD *A.C.T.*, Hon. DLitt

VICE-CHANCELLOR—R. B. MADGWICK, OBE, DPhil *Oxon*, MSc Hon. DLitt *Syd*, Hon. LL.D. *Q'ld*

PRO VICE-CHANCELLOR—D. HOWIE, MA DipEd *W.Aust*, PhD *Leid*

REGISTRAR—T. C. LAMBLE, BA *Syd*

BURSAR—N. F. DEVLIN, FCIS, FASA

LIBRARIAN—F. H. ROGERS, MA *Brist.*, FLA

## TEACHING STAFF

(†=Part-Time)

<b>Agricultural Economics</b> , see below		Pinhey, J. T., MSc PhD <i>Syd</i>	Lectr
<b>Botany</b>		3 Demts.	
Beadle, N. C. W., DSc <i>Syd.</i>	Prof.	<b>Classics</b>	
Davis, Mrs. Gwenda L., BSc PhD <i>Syd</i>	Assoc. Prof.	Bishop, J. H., MA <i>Cambr.</i>	Prof
Wald, J. G., BSc <i>Leid. &amp; Oxon</i> , DPhil <i>Oxon</i>	Sr Lectr	Letters, F. J. H., MA LLB <i>Syd.</i> , Hon. DLitt <i>N.U.I.</i>	Assoc. Prof
Boyd, R. A., BSc <i>Durk. &amp; Oxon</i>	Lectr.	Kelly, M. N., MA DipEd <i>Syd.</i>	Sr. Lectr.
Williams, J. B., BSc <i>Syd.</i>	Lectr.	Dale, W. A., BA <i>Tor.</i> , MA PhD <i>Calif.</i>	(on leave) Lectr
Green, J. W., BSc <i>Adel</i> , MSc <i>W.Aust.</i>	Lectr	McCready, A. G., BA <i>Q'ld.</i>	Lectr
Chailey, J. L., BScAgr <i>Syd.</i> , PhD	Lectr	Crowhurst, R., BA <i>Leid.</i>	Lectr.
2 Temp Lectrs., 5 Demts.		McDevitt, A. S., BA <i>Cambr.</i>	Lectr
		1 Tutor	
<b>Chemistry</b>		<b>Economics</b>	
<b>Inorganic and Physical</b>		Belshaw, J. P., MA <i>N.Z.</i> , PhD <i>Manc.</i>	Prof.
Stokes, R. H., PhD <i>Cambr.</i> , DSc <i>N.Z.</i> , FRACI, FRIC, FAA	Prof.	Duncan, R., MA <i>Adel.</i>	Sr. Lectr.
Dudley, F. B., BSc <i>Melb.</i> , PhD	(on leave) Sr Lectr.	Bieda, K., MA <i>Aberd.</i>	Sr. Lectr.
Stimson, V. R., BSc DipEd <i>Syd.</i>	Sr. Lectr.	Neville, J. W., BA <i>W.Aust.</i> , PhD <i>Calif.</i>	Sr Lectr.
Fielding, P. E., MSc <i>Syd.</i> , PhD <i>N.S.W.</i>	Lectr.	Clayton, R. E., BSc <i>Syd.</i> , MScSci( <i>Leam</i> ) Dip <i>Stockholm</i>	Sr. Lectr.
Watson, E. J., BSc <i>Syd.</i> , MSc DipEd	Lectr.	Leamas, P. K., BCom <i>Durk.</i> , MCom <i>Leam</i>	Sr. Lectr.
Henrahan, P. N. J., DScSci <i>Lousiss</i>	Res Fellow	Davies, P. H., BA BSc <i>Syd.</i>	Lectr.
Price, J. E., MA DPhil <i>Cambr.</i>	Visiting Res. Fellow	Garlick, P. C., MA DipEd <i>Sheff.</i>	Lectr.
7 Demts		Drysdale, P. D., BA	Temp. Lectr.
<b>Organic</b>		Molhuysen, P. C., BSc <i>Tor</i>	Res Fellow
Riggs, N. V., BSc <i>Adel.</i> , PhD <i>Cambr.</i> , FRACI	Assoc. Prof.	4 Tutors, 1 Grad. Assi.	
Lewis, K. G., BSc <i>Adel.</i> , PhD	Sr Lectr.	<b>Education</b>	
Benfield, J. E., MSc PhD <i>Melb.</i>	(on leave) Sr. Lectr.	Richardson, J. A., BA <i>Lea.</i> , MA DipEdPsych <i>Birm.</i> , PhD <i>Q'ld.</i>	Prof.

\* Member of the Association of Universities of the British Commonwealth

Olphert, W. B., MA DipEd N.Z. Sr. Lectr.  
 Walker, W. G., MA Syd., PhD Ill. Sr. Lectr.  
 Katz, F. M., MA BEd Melb. Lectr.  
 Bewley, D. R., MA Oson., BEd Edne Lectr.  
 Jiggs, J. B., BA Tas. Lectr.  
 Eastwood, G. R., BA BEd W Aust., MA  
 PhD Mann Lectr.  
 3 Lectrs †, 1 Tutor, 1 Res Asst

**English**

Pipey, H. W., BA DLitt Adel., MA Oson Prof.  
 McKenase, K. A., MA DipEd Melb.,  
 DUParis Assoc. Prof.  
 O'Brien, C. J. H., MA DipEd Syd. Sr. Lectr.  
 Liggins, Elizabeth M., MA Syd.,  
 PhD Lond. Sr. Lectr.  
 Davison, D., MA Sheff. Sr. Lectr.  
 Hall, A. D., BA S.A., MA Oson. Sr. Lectr.  
 Ryan, J. S., MA N.Z. & Oson.,  
 DipHons N.Z. Lectr.  
 Hoddinott, W. G., MA DipEd Oson Lectr.  
 Rand, F. H., BA Qn., MA McG.,  
 DUParis Lectr.  
 Barnard, R., BA Oson Lectr.  
 Nelson, T. G. A., BA Oson. Lectr.  
 Jones, Alison I., BA Syd. Temp. Lectr.  
 Evans, D., BA DipEd Temp. Lectr.  
 1 Tutor

**French**

Dimes, J. C., BA DipEd Syd., DUParis Prof.  
 Blanche, Isabel M., BA DipEd Syd.,  
 DEU Paris Sr. Lectr.  
 Marshall, F. W., MA N.Z., DUParis Lectr.  
 Bancroft, L. D., BA Burm Lectr.  
 Bell, Barbara M., MA DipHons N.Z.  
 Temp. Lectr.

**Geography**

Butland, G. J., BA PhD DipEd Burm. Prof.  
 Thorpe, R. W. R., BSc Syd. Sr. Lectr.  
 King, H. W. H., MA DipEd Syd.,  
 PhD A.N.U. Sr. Lectr.  
 Chapman, E. C., MA DipEd Syd. Sr. Lectr.  
 Woolmington, E. R., MA Syd. Sr. Lectr.  
 Holmes, J. H., MA DipEd Syd. Lectr.  
 Plummer, B. A. G., MA Wales Lectr.  
 Warner, R. F., BA Burm. Lectr.  
 Robison, W. C., MA Calif., PhD Boston Lectr.  
 Sheppard, June A., MA PhD Lond Visiting Lectr.  
 Davis, I. H., BSc Lond. Temp. Lectr.  
 5 Demas., 1 Res. Asst.

**Geology**

Voisey, A. H., DSc Syd. Prof.  
 Williamson, J., MSc Q'ld., PhD Camb. Assoc. Prof.  
 Stanton, R. L., MSc PhD Syd. Sr. Lectr.  
 Harrington, H. J., MSc N.Z., DPhil Oson. Sr. Lectr.  
 Philip, G. M., MSc Melb., PhD Camb. Lectr.

Birns, R. A., BSc Syd. Lectr.  
 4 Demas., 2 Res. Assts

**German**

Coghlan, B. L. D., BA PhD Burm Prof.  
 Holloway, F., BA DipEd Wales, MA Oson Sr. Lectr.  
 McGill, I. K., MA AUA Adel Lectr.  
 Hasak, Lancel, BA Melb. Lectr.  
 Bonig, A. O., BA Melb Lectr.  
 1 Temp. Lectr.

**History**

Williams, C. M., BA Melb., DPhil Oson. Prof.  
 Tapp, E. J., MA N.Z. Assoc. Prof.  
 Ward, R. B., MA Adel., PhD A.N.U.,  
 DipEd Melb. Assoc. Prof.  
 Dalton, B. J., MA N.Z., DPhil Oson Sr. Lectr.  
 Turner, L. C. F., MA Rand Sr. Lectr.  
 Walker, R. B., MA Syd., PhD Lav. Sr. Lectr.  
 Getzler, L., BA Melb. Lectr.  
 Jones, G. F. T., MA N.Z., DPhil Oson Lectr.  
 McBryde, Isabel, MA Melb.,  
 DipProhistArch Camb Lectr.  
 Fraser, E. M., BA Camb., MA N.Z. Lectr.  
 Robertson, J. R., MA W Aust. & A.N.U. Lectr.  
 Dolan, J. A., MA Edm Lectr.  
 Neely, Mary, BA Adel., DipEd Melb. Lectr.  
 Nixon, C. E. V., BA Melb Temp. Lectr.  
 3 Tutors

**Mathematics**

Smith, R. C. T., MA BSc Melb.,  
 DPhil Oson Prof.  
 Taylor, N. W., MSc Syd., PhD Sr. Lectr.  
 Herodam, A. F., BEd Melb., MA PhD  
 DipEd Syd. Sr. Lectr.  
 Adkins, B. L., BSc Q'ld., MA Melb. Sr. Lectr.  
 Barr, E. J., MSc Q'ld. Sr. Lectr.  
 Herodam, Mrs. E. Molhe, MA Camb.,  
 BSc(Eng) Lond Lectr.  
 Mayatzenko, P., MA Copenhagen Lectr.  
 Lush, P. E., MA PhD Melb. Lectr.  
 5 Tutors, 1 Grad. Asst.

**Philosophy**

Goddard, L., MA BPhil St. And. Prof.  
 McInosh, G. F., BA Syd. Sr. Lectr.  
 Baswell, A. C., BA Syd. Sr. Lectr.  
 Londey, D. G., MA PhD Melb. Sr. Lectr.  
 Robinson, E. B., MA LLB N.Z. Lectr.  
 Llewelyn, J. E., BA Wales, MA Edm.,  
 Blatt Oson Lectr.  
 Kovesi, J. G., BA W. Aust., BPhil Oson. Lectr.  
 1 Temp. Lectr.

**Physics**

Scenerville, J. M., MA Camb., DSc Syd.,  
 FIP Prof.  
 Smith, R. A., BSc PhD Syd. Assoc. Prof.  
 Landecker, K., Ding Berl. Sr. Lectr.

**AUSTRALIA**

Hibbesd, F. H., BSc <i>W. Aust.</i> , MSc PhD <i>Syd.</i> , FIP	Sr. Lectr.
Haydon, S. C., MA <i>Oxon.</i> , PhD <i>Wales</i>	Sr. Lectr.
Fletcher, N. H., BSc <i>Syd.</i> , MA PhD <i>Horn.</i>	Sr. Lectr.
Setty, C. S. G. K., MSc <i>Ny.</i> , PhD <i>Canb.</i>	Sr. Res. Fellow
Blevin, H. A., MSc PhD	Lectr.
Schroder, G. A., DResNat <i>Hamburg</i>	Res. Fellow
Bourne, I. A., MSc	Res. Fellow
Bryant, G. W., ARCS, BSc PhD <i>Lond.</i>	Res. Fellow
Cresagh, D. C., MSc DipEd <i>Qld.</i>	Temp. Lectr.
4 Demos, 4 Res. Assis., 1 Lab. Manager	
<b>Psychology</b>	
Howe, D., MA DipEd <i>W. Aust.</i> , PhD <i>Lond.</i> , FBPaS	Prof.
Burratt, P. E. H., MA <i>Syd.</i> (on leave)	Sr. Lectr.
Gabriel, J., BA PhD <i>Lond.</i>	Sr. Lectr.
Forster, N. T., BA DipEd <i>Syd.</i> , PhD <i>Melb.</i> , MA	Sr. Lectr.
McDonald, R. P., BA MSc <i>Syd.</i>	Lectr.
Savage, R. D., BA <i>Durh.</i> , PhD <i>Lond.</i>	Lectr.
Barrett-Lennard, G. T., BA BSc <i>W. Aust.</i> , PhD <i>Chic.</i>	Lectr.
Marsh, M. C., BA DipEd <i>S. A.</i> , PhD <i>Rhodes</i>	Lectr.
3 Demos	
<b>Zoology</b>	
O'Farrell, A. F., BSc <i>Lond.</i>	Prof.
Stock, A., PhD <i>Frema &amp; Edin.</i>	Assoc. Prof.
Murray, P. D. F., BSc <i>Oxon.</i> , MA <i>Canb.</i> , DSc <i>Syd.</i> , FAA	Reader
Breerton, J. Le G., BSc <i>Syd.</i> , DPhil <i>Oxon.</i>	(on leave) Sr. Lectr.
Giles, E. T., MSc <i>N.Z.</i> , PhD <i>Lond.</i>	Sr. Lectr.
de Bary, J. M., BSc <i>Tas.</i>	Lectr.
McKenzie, R. J., MSc <i>Melb.</i>	Lectr.
7 Demos, 2 Res. Assis., 1 Lab. Manager	

## AGRICULTURAL ECONOMICS

<b>Agricultural Economics</b>	
Lewis, J. N., BSc <i>Syd.</i> , MPA <i>Harv.</i>	Prof.
Munro, W. F., MScAgr <i>Syd.</i>	Lectr.
Daley, J. H., BScAgr <i>Syd.</i>	Lectr.
Van der Molen, J., BSc <i>Syd.</i>	Lectr.
1 Res. Asst.	
<b>Farm Management</b>	
Waring, E. J., BScAgr <i>Syd.</i>	Sr. Lectr.
Herr, W. McIn., BSc PhD <i>Canb.</i> , MS <i>Ill.</i>	Sr. Lectr.
Possie, R. A., MScAgr <i>W. Aust.</i>	Lectr.
4 Demos	Res. Fellow
3 Res. Assis.	
<b>Public Administration</b>	
Richards, R. A., BA BSc DipPubAdmin <i>Melb.</i> , MA <i>Manc.</i> , PhD <i>Oxon.</i>	Sr. Lectr.

<b>Sociology</b>	
Bell, J. H., MA PhD <i>Syd.</i>	Assoc. Prof.
1 Tutor	
<b>Statistics</b>	
...	Assoc. Prof.
1 Tutor	Lectr.

## RURAL SCIENCE

<b>Agronomy</b>	
Veale, J. A., MSc <i>N.Z.</i> , DIC, PhD <i>Lond.</i>	Sr. Lectr.
McGarity, J. W., MScAgr PhD <i>Syd.</i>	Sr. Lectr.
Watkin, B. R., MScAgr <i>N.Z.</i> , PhD <i>Lond.</i>	Lectr.
...	Lectr.
2 Lectrs., 2 Demos, 1 Res. Asst.	
<b>Biochemistry and Nutrition</b>	
McClymont, G. L., BVSc <i>Syd.</i> , PhD <i>Canb.</i>	(on leave) Prof.
Anson, E. F., PhD <i>Lond.</i> , FRIC	Assoc. Prof.
Lindsay, D. B., BSc MA DPhil <i>Oxon.</i>	Sr. Lectr.
Passy, R. F., BScAgr <i>Syd.</i> , PhD <i>McG.</i>	Sr. Lectr.
Cumming, R. B., BVSc <i>Perth.</i>	Lectr.
Somers, M., BSc(Agric) PhD <i>W. Aust.</i>	Lectr.
White, R. R., BSc <i>N.Z.</i>	Res. Fellow
2 Demos	

<b>General Sections</b>	
Patchell, M. R., MScAgr <i>N.Z.</i>	Sr. Lectr.
Stephenson, S. K., MSc <i>N.Z.</i> , PhD <i>Syd.</i>	Sr. Lectr.
Kwapinski, J. B., MD <i>Poznan</i> , CandSc <i>Warsaw</i>	Sr. Lectr.
Mackinnon, M. M., BSc <i>Edin.</i>	Lectr.
1 Lectr., 1 Res. Asst.	

<b>Livestock Husbandry</b>	
Yates, N. T. M., PhD <i>Canb.</i> , DAGS <i>Qld.</i>	Assoc. Prof.
Ryder, M. L., MSc PhD <i>Leeds</i>	Sr. Lectr.
Hill, M. K., MScAgr <i>N.Z.</i>	Lectr.
2 Demos, 1 Res. Asst.	

<b>Physiology</b>	
Evans, J. V., BVSc <i>Syd.</i> , BSc <i>N.Z.</i>	Assoc. Prof.
Williams, J. V., MSc(Agric) <i>W. Aust.</i>	Lectr.
Webster, M. E. D., MSc <i>N.Z.</i>	Lectr.
Morris, R. J. H., MSc <i>Melb.</i>	Lectr.
Blunt, M. H.	Res. Fellow
1 Demr.	

## EXTERNAL STUDIES

Shewth, H. C., BSc <i>BE Syd.</i>	Du.
Hepper, M. W., BSc DipEd <i>Syd.</i> , BA	Asst. Dar.
Gilbert, L. A. J., BA	Res. & Information Officer

Lancaster, J. K.  
: Grad. Asst

Admin. Officer

Presd, J. M., BA *W Aust*  
Warburton, J. W., MA *N Z*  
Dunton, A. F., BA *Hed Qld*  
Shaw, J. H., MSc *DipEd Syd*  
Crew, N. D., BCom *Melb*  
James, B. C. J., BSc *Wales*,  
DipAgricEcon *Oven*  
: Admin. Asst., 2 Grad. Assts

Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.

### ADULT EDUCATION

Nelson, A. J. A., BA *Adel* (on leave) *Dis.*  
Howard, A. C. M., BA *Syd*, *BEd Melb.*  
Asst. Dir.

### ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE Accountant: W. Dodds  
Asst. Registrar: K. R. Long, BA *Syd*, R.  
McCrag, BA *Qld.*, F. P. Smith, BCom *Melb.*  
Clerk of Exams: Evangeline Harris, Asst.  
Accountants: S. T. Collinson-Smith, J. A.  
Rodgeis

CHAPLAINS Rev. J. O. Rymet, MA *Qld.*  
(Anglican), Rev. P. Knowles (R.C.); Rev. N.

McLeod (Presbyterian); Rev. J. S. Udy, BA  
*Syd.*, STB *Barton*, PhD *Harv* (Methodist);

BUILDINGS AND GROUNDS. Officer of Works:  
R. K. Lindsay, BE *Syd.*

LIBRARY. Assoc. Librarian: V. Crittenden,  
BA *Syd*, BLS *Tor.*, BSc(Econ) *London*.  
Librarians: Edith M. Tattersall, BA *W Aust.*;  
Winifred R. Richardson, BA *Qld.*, Archivist.  
R. J. McDonald, BA *DipEd Syd*

### COLLEGES WITHIN THE UNIVERSITY

DUVAL COLLEGE (tel.: Armadale 3528). For  
women. Principal—

MARY WHITE COLLEGE (tel.: Armadale 3140).  
For women. Principal—Mary F. Bagnall, MA  
*Melb.*

ROBE COLLEGE (tel.: Armadale 4403). For  
men. Master—B. C. J. Meredith, OBE, BA  
*DipEd Melb.*

WRIGHT COLLEGE (tel.: Armadale 3141). For  
men. Master—A. Treloar, MA *Melb.* & *Oven*.

### GENERAL INFORMATION

In 1918, at the request of the citizens of  
northern N.S.W., the New England Univ. Coll.  
was established as a branch of the Univ. of Sydney.  
The coll. thus became the first experiment in univ.  
decentralization in Australia. Teaching began in  
1938 in the fac. of arts with an enrolment of 19  
and in the fac. of sci. the following yr.

In 1953, following representations over a  
number of yrs, the Univ. of New England was  
established by act of the N.S.W. parliament and  
granted autonomy from Feb. 1, 1954.

CONSTITUTION. The univ. consists of the  
council, convocation, postgrad. and undergrad.  
students. The governing authority of the univ.  
is the council, which consists of 6 members apptd.  
by the governor of N.S.W., the director general of  
educn. of N.S.W., the principal of the Armadale  
Teachers' Coll., the vice-chancellor, 4 reps. of the  
teaching staff, 6 elected by convocation, one by  
undergrads. and 4 by members of council. The  
chancellor, who is elected by council, is the head  
of the univ. and the vice-chancellor is the chief  
executive officer. The ac. academic body of the  
univ. is the professional bd., which consists of the  
vice-chancellor, profs. and hds. of depts.

D

INCOME (1961) For general univ. purposes:  
£A1,445,094 (Commonwealth govt., 33 per cent;  
state govt., 51 per cent; residential fees & sale  
of farm products, 9 per cent; tuition fees,  
etc., 7 per cent). For bldgs., etc., state govt.,  
£A234,468, Commonwealth govt., £A158,310.

FACULTIES AND DEANS Agric. econ., Prof. J. N.  
Lewis, mtr., Prof. G. J. Butland (geog.); sci.,  
Dr. F. H. Hibberd (phys.); rural sci., Prof. G. L.  
McClymont (nuir & biochem).

UNIVERSITY PRECINCT. The univ. site consists  
of some 900 acres on the outskirts of Armadale,  
and includes a 400-acre farm. The original bldg.  
on the site, 'Bookoombah', an old country  
homestead, provides a headquarters for the admin.  
staff and a coll. dining room. A mod. univ. bldg.  
has been built together with a library, teaching  
and lab. blocks.

LIBRARY. Dixon library, about 92,000 vols.;  
subscribes to 1500 periodicals. Addnl. 20,000  
vols. (for use of external students) housed in pub.  
libr. of New South Wales, Sydney.

LABORATORIES. Agric. econ., bot., chem., geol.,  
phys., rural sci., zool.

AUSTRALIA

**FIELD STATION** for res into properties of the biosphere. In the univ. grounds are the lab. connected with a large C.S.I.R.O. field res. stn. of 4500 acres situated about 10 mi. from Armadale. The Univ. Farm of 400 acres provides facilities for field studies connected with the fac. of rural sci.

The **ARMADALE TEACHERS' COLLEGE** provides facilities for teacher trainees who are undertaking univ. courses and for grads. who are pursuing the dipl. in educ. course.

#### ADMISSION See Appendix III.

**NON-MEMBERS OF THE UNIVERSITY.** Anyone wishing to attend univ. lectures may do so upon payment of such fees as the council may from time to time direct, provided that any such person must obtain the approval of the fac. concerned before attending lectures and (if at time of entry he is qualified to do so) he matriculates.

**FIRST DEGREE.** 3 yrs.—BA pass, BSc pass, 4 yrs.—BA hon., BSc hon., BRurSc pass, hon.; BAgEc pass, hon.

Main specializations for first degrees. *Arts*: classics, Latin, Greek, econ., educ., Engl., French, German, geog., hist., maths., philos., psychol. *Sci*: bot., org. chem., phys. chem., geog., geol., maths., phys., sociol. *Rural sci.*: physiol., livestock husbandry, nutrition, biochem., agron., chem., pathol., genetics, pathol., microbiol. & livestock health. *Agric. econ.*: agric. econ., farm management, marketing & distribution, econ. stats., econ. pub. admin., sociol.

The lecture timetable is so arranged that reg. students may study pt.-time and complete a BA degree.

**HIGHER DEGREES.** LittB—1 yr. from BA pass, 1 yr. from BA hon.; MA—1 yr. from BA pass, 1 yr. from BA hon. (under new regns., MA is awarded in a class of hon., depending on merit); MSc—1 yr. from BSc hon., 2 yrs. for grads. of other univs.; MRurSc—1 yr. from BRurSc; MAgEc—2 yrs. from 1st degree; PhD (available in all facs)—3 yrs. from 1st degree; DLitt—3 yrs. from 1st degree, awarded for original contribution of distinguished merit adding to knowledge and understanding of any branch of learning with which fac. is concerned; DSc, DRurSc—awarded for substantial and original contribution to knowledge and understanding of a sub. within scope of respective facs. Grads. of other univs. are required to have at least a yrs' assoc. with the univ. before presenting a thesis for a higher degree.

DLitt and DSc also awarded as HONORARY DEGREES.

**EXTERNAL TUITION.** Courses leading to BA pass degree are offered by correspondence, but only persons resident in N.S.W. who cannot attend a local univ. (Sydney, Newcastle, Canberra, Armadale) can be considered for external enrolment. External courses leading to DipEd

(Secondary Teaching) and DipEdAdmin offered to grads. resident in N.S.W.

**DIPLOMAS.** DipEd (1 yr. for internal students, 2 yrs. for external students), offered internally in secondary, primary or infants teaching and externally in secondary teaching or admin. of educn. DipEdAdmin (external only, 2 yrs. postgrad.).

**RESEARCH.** The usual facilities for postgrad. res. are provided in the various depts.

**STUDY LEAVE.** 1 yr. on salary after completion of 6 yrs' service for full-time members of teaching staff.

**FEES** (excl. student orgn. fees). Internal students matric. £A3, degree courses in arts. (pass, 3 yrs) £A327, (hons. + 1 yr) £A145, degree courses in sci. (pass, 3 yrs) £A360, (hons. + 1 yr) £A478, degree courses in rural sci. (pass and hons. + 4 yrs.) £A478, degree course in agric. econ. (pass and hons. + 4 yrs) £A478, DipEd, £A118.

External students. degree courses in arts. (pass, 5-9 yrs) £A392-£A468 according to number of yrs. taken; DipEd and DipEdAdmin (2 yrs) £A135.

**ACADEMIC YEAR.** March to Dec 3 terms of 10 wks each.

**ADULT EDUCATION.** The dept. of adult educn. is responsible for a substantial programme of residential and non-residential courses, primarily in the fine arts, lit., rural sci., soc. sci., and community affairs. Experimental work in rural adult educn. is being undertaken. The dept. provides an advisory service to rural communities on their developmental problems.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS.** Commonwealth scholcs. (all facs., see p. 12); Teachers' College scholcs. (facs. of arts, sci. and rural sci.); State Dept. cadetships and traineeships (facs. of rural sci. and agric. econ.); Aust. Agric. Council scholcs. (facs. of rural sci. and agric. econ.).

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Commonwealth scholcs. (all facs.); I.C.I.A.N.Z. res. fellowships (all facs.); General Motors-Holden's Ltd. res. fellowships (all facs.); Wool res. fellowships (all facs.); C.S.I.R.O. postgrad. studentships (all facs.); Aust. Atomic Energy Commission postgrad. studentships (fac. of sci.).

**STUDENT RESIDENCES.** The univ. is completely residential. All internal students are required to live in univ. halls, or residences except those who live in Armadale with their family or guardian. At the 4 colls. within the univ. (see p. 65), there is accomm. for 612 students (Dural Coll., 122 women, Mary White Coll., 96 women, Robb Coll., 210 men, Wright Coll., 184 men). Full board and lodging in colls. or residences costs £A140 per academic yr. and £A5 per wk. out of term. Each college fellow or tutor acts as personal tutor to a number of undergrads. and is

responsible under the master or principal for their academic and gen. welfare

**STALE RESIDENCES.** The univ. has a small no. of furnished houses available for rent by new staff for short periods. Finance available on mortgage to full-time academic staff and other approved members through the univ. bankers to buy or build a house (max advance, 50 per cent of valuation)

**UNIVERSITY MILITARY FORMATION.** 'D' Co. of the Sydney Univ. Regiment is recruited at the univ.

**STUDENT HEALTH SERVICE.** Each student is required to contribute £A8. 11s. yearly to a med. fund which entitles him, under certain conditions, to free med. treatment while in residence

**THE STUDENTS' REPRESENTATIVE COUNCIL** is elected from and by students to speak and act

on their behalf in matters involving their relationship with other members and bodies of the univ.

**UNION.** T. R. Forster memorial union, built in 1956 and added to in 1961, provides reading rooms, common rooms, cafeteria, etc., for students and staff, post office, savings bank agencies and shopping facilities available. Governed by a bd of management representing staff and students

**SPORT.** An active sports union provides for all major sporting activities. The Cornett Davis memorial playing fields provide for cricket, football, hockey, tennis, baseball and basket-ball.

**PUBLICATIONS.** *Calendar* (biennially), *Handbook* (annually), *Res. Report* (annually), *Bulletin* (3 issues p.a.), *Newscum* (student newspaper, fortnightly, during term), *Monographs on New England Regional Research* (occasional)

## THE YEAR 1961

**PRINCIPAL BENEFICATIONS.** Wool Res. Cttee, £A32,250 for various res. projects in fac. of rural sci.

(Total value of all benefactions received £A60,403)

**MAJOR BUILDING DEVELOPMENTS.** Bldg. completed: bot./zool. sch. *Approaching completion*: second residence bldg., Robb Coll.

**RESIGNATIONS.** Dr K. S. W. Campbell (geol.), apptd. sr. lectr. in geol., A.N.U.; Dr W. V. Candler (stats), apptd. prof., Missey Agric. Coll.; C. C. Clark (Engl.); E. A. Fitzpatrick (geog.), apptd. climatologist, C.S.I.R.O.; Jenn M. Herd (psychol.), to postgrad. studies in educn., Stan.; Dr D. R. Lumsden (livestock hush.), to appt. in animal physiol., C.S.I.R.O.; Valerie Leech (French), to overseas studies, Dr A. F. McKee (econ.), apptd. lectr. in econ., Sudbury, K. Winterhalter (bot.), to U.K.

**DEATHS.** Prof. D. Gray (prof. of physiol., 1954-61).

**HONORARY DOCTORS.** *D.Litt.*—Lt.-Gen. Sir Eric Woodward, govt. of N.S.W.; Right Rev. J. S. Moyes, bishop of Armidale, dep. chancellor of N.E.

## Statistics

### STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time *	Total
Men	512	128	1418
Women	286	38	553
Total	798	166	1971

**Distribution by Faculties.** *Agric. econ.*, 70; *arts*, 2141; *rural sci.*, 118; *sci.*, 225. Postgrad. students (incl. 197 DipEd and 33 DipEdAdmn), 381. Total, 2933.

*Included in the figures above are—*

Postgraduate students, 381  
New admissions, 309 (internal), 702 (external).  
Students from other countries, 57 (Countries from which largest numbers came: Malaysia and Indonesia, 13)

**DEGREES AWARDED (1961)** *Agric. econ.*: BAgEc, 1; *Arts*: BA, 94; BA hons., 13; MA, 2. *Rural sci.*: BRurSc, 11. *Sci.*: BSc, 36; BSc hons., 11; MSc, 3. *PhD* (all facs): 2. Total number of first degrees awarded, 158.

**DIPLOMAS AWARDED (1961)** DipEd, 67; DipEdAdmn, 14

\* Part-time students are those taking half or less of the normal subjects in any year



# UNIVERSITY OF NEW SOUTH WALES\*

Founded in 1949 as The New South Wales University of Technology

Postal Address: Box 1, Post Office, Kensington, New South Wales, Australia  
Cables and Telegrams: Unitech, Sydney  
Telephone: 663 0351

CHANCELLOR—The Hon. Mr Justice J. S. J. CLANCY, LL.B. Syd.

DEPUTY CHANCELLOR—R. J. WEBSTER, CMG, OBE, MC, Hon. DSc, FASA

VICE-CHANCELLOR—J. P. BAXTER, CMG, OBE, BSc PhD *Burs.*, FAA, FRACI

PRO-VICE-CHANCELLOR—R. H. MYERS, MSc PhD *Math.*, FIM, FRACI

PROCTOR—G. L. MACAULEY, BEc Syd

RECTOR—J. O. A. BOUNNIE, BA Syd

LIBRARIAN—J. W. METCALFE, BA Syd, FLA

## TEACHING STAFF

Accountancy		Applied Psychology	
Smyth, E. B., FASA, FCAA	Prof	Clark, J. F., MA BSc DipEd Syd., PhD Lond.	Prof
Stewart, W. J. McK., BA BCom <i>Math.</i> , FCAA	Assoc. Prof	Martin, R. T., BA DipPubAdm <i>Syd.</i>	Assoc. Prof
Airey, C. R., BA BSc BSc DipEd Syd.	Sr. Lectr.	Davies, E. E., MA Syd	Sr. Lectr.
Bonita, R. L., LL.B. Syd.	Sr. Lectr.	Meadows, A. W., MA <i>Math.</i> , PhD Lond.	Sr. Lectr.
Burke, W. L., BA BSc Syd., FASA	Sr. Lectr.	RDPs	Sr. Lectr.
Deyen, R. G., FASA, FCAA	Sr. Lectr.	Olley, A. K., BA Syd	Sr. Lectr.
Forster, A. A., FCIS, FASA	Sr. Lectr.	Poroshaki, O., MA PhD Lond.	Sr. Lectr.
Keenally, G., LL.B. Syd	Sr. Lectr.	Carey, A. E., BSc Lond.	Lectr.
Lee, L. N., BA BCom <i>Q'ld.</i>	Sr. Lectr.	Clark, A. W., MA <i>Math.</i>	Lectr.
McPherson, L. A.	Sr. Lectr.	Edmonds, Irene A., MA Syd.	Lectr.
Bowles, G. N., BEc Syd	Lectr.	Gault, Una, MA Syd	Lectr.
Coch, W. G., BCom <i>Math.</i>	Lectr.	Jarvis, W. A. H., BA DipEd Syd., BED <i>Math.</i>	Lectr.
Dixon, J., BEc <i>Adel.</i>	Lectr.	Kenna, C. P., BA BSc Syd.	Lectr.
Howitt, G., BEc Syd	Lectr.	Llewellyn, K. R., BA Syd.	Lectr.
Levy, V. M., BEc Syd	Lectr.	Murray, J. C., BA Syd.	Lectr.
Willmet, S. J., BCom BEc <i>Q'ld.</i> , MA(BusAdm) <i>Georgia</i>	Lectr.	Yensen, R., MA <i>W. Aust.</i> , PhD <i>Canb.</i>	Lectr.
Binkett, W. P., BEc Syd	Assoc. Lectr.	1 Sr. Tutor, 1 Teaching Fellow, 1 Res. Asst.	
1 Sr. Tutor, 1 Tutor, 1 Teaching Fellow			
Anatomy		Architecture and Building	
Blunt, M. J., MB BS PhD Lond.	Prof.	Townsend, F. E., FRIBA, FRAIA	Prof., Hd. of Sch.
Wendell-Smith, C. P., MB BS Lond.	Assoc. Prof	Freeland, J. M., March DTRP <i>Math.</i>	Prof.
Molyneux, G. S., MDS Syd., FDSRCS	Sr. Lectr.	Anderson, N. J., March Syd., March <i>Lie.</i> , DipTP Lond., FRAIA	Assoc. Prof.
O'Brien, B. R. A., BSc PhD Syd.	Sr. Lectr.	Spooner, P., DipLandscapDes <i>Durh.</i>	Assoc. Prof.
Plemley, N. J. B., BSc Syd., MSc Tas	Sr. Lectr.	Baint, E., MCE <i>Math.</i> (Bridg.)	Assoc. Prof.
	Sr. Lectr.	Chalmers, R. D., BSc(Eng) Lond.	Sr. Lectr.
2 Tech. Officers, 2 Demos.			

\* Members of the Association of Universities of the British Commonwealth

Connet, J	Sr Lectr
Daniels, E C	Sr Lectr
Fraser, W A	St Lectr
McDonnell, G. H. B., BArch Syd., FRACI	
	Sr Lectr
Mack, A. H., BArch Syd	Sr Lectr
Phillips, R. O., BArch Syd, MArch	Sr Lectr
Shaw, J. H., BE DipTCP Syd, MCD Lw	
	Sr Lectr
Sutton, R. G., SM MIT	Sr Lectr
Busley, N. F.	Lectr
Gordon, D. L., BArch Syd, MArch Penn	Lectr
Head, R. A. G.	Lectr
Jack, A. A.	Lectr
King, J. L., BArch DipTCP Syd	Lectr
Kolli, L. P.	Lectr
Lawrence, Mrs. Anita B., MArch	Lectr
Lennon, D., BArch Syd.	Lectr
Niemmo, Lorna M.	Lectr
Puttock, I. R.	Lectr
Purkis, A. E. R.	Lectr
Stevens, C. W.	Lectr
Styles, J.	Lectr
Thackray, R. N.	Lectr
1 Sr Tutor, 1 Tech. Officer	

**Biological Sciences**

Ralph, B. J. F., BSc Tas., PhD Law	
FRACI (Biochem.) Prof, Hd of Sch	
Salton, M. R. J., BScAgr Syd,	
PhD Camb	(Microbiol.) Prof
	(Bee) Prof
	(Zool.) Prof
Barbour, R. G. H., BScAgr Syd, MSc	Sr Lectr
Brown, A. D., MSc Syd, PhD Monc	Sr Lectr
Hindmarsh, Mary M., BSc PhD Syd.	Sr Lectr
Moss, F. J., MB BS Melb	Sr Lectr
Rienits, K. G., MSc Syd., PhD Birm	Sr Lectr
Stephenson, Mrs. Elsie M., MSc N.Z.	
PhD Lond	Sr Lectr
Strahan, R., MSc W.Aust.	Sr Lectr
Teplitzky, D. R., BE BSc N.Z.,	
PhD Syd	Sr Lectr
Williams, J. F., MSc	Sr Lectr
Freer, J. H., BSc Dubl., MSc PhD Birm	Lectr
Goddard, C. K., BSc Edin., PhD St And	Lectr
Hannon, Nola J., BSc PhD Syd	Lectr
Ike, D., DSc Pret	Lectr
Mosey, M. J. K., BSc Lond.	Lectr
O'Gower, A. K., MSc PhD Syd	Lectr
Richards, Aola M., MSc PhD N.Z.	Lectr
Robinson, E. S., MSc N.Z., PhD Newasko	

	Lectr
Shipp, E., BSc Syd	Lectr
Snoswell, A. M., BSc PhD Adel	Lectr
Terrill, R., BSc Syd, PhD	Lectr
Willett, H. J., MSc Brist	Lectr
Wood, A. E., BScAgr Syd	Lectr
Wood, A., MA Oxon	Lectr
7 Teaching Fellows, 8 Tech. Officers, 2 Tutors,	
1 Sr. Tutor, 1 Res Asst	

**Business Administration**

Wills, N. R., BSc MSc Syd.	Prof
	Sr Lectr

**Chemical Engineering**

Fowler, R. T., BSc Wales, PhD Lond.,	
DScEng Syd.	Prof
Reutes, F. H., DrPhil Berl., FRIC, FRACI	
(Food Technol.) Assoc. Prof.	
Rochman, R. H., BSc Corn., PhD	Sr Lectr.
Roper, G. H., MSc PhD	Sr Lectr
Bowen, J. H., BA Camb., PhD Lond	Lectr
Dixon, D. C., BE MEngSc Syd	Lectr
Dogg, I. D., BSc(Eng) Lond	Lectr
Edwards, R. A., BSc	Lectr
Howard, F. O., BE Syd.	Lectr.
Hunt, C. H., MSc	Lectr
Norman, J. R., BSc PhD	Lectr.
Souter, P., MSc Syd	Lectr
Talldag, B. G., BSc Athos, MS Florida,	
PhD Florida State	Lectr
1 Tutor, 1 Teaching Fellow, 2 Tech. Officers	

**Chemical Technology**

Ayscough, F. W., BSc Syd, MSc	Prof
McCartney, E. R., BSc Syd, PhD	Assoc. Prof.
Connors, F. L., MSc PhD	Sr Lectr
Hastings, G. W., BSc PhD Birm.	Sr Lectr.
Fowler, H., MSc	Lectr
Haken, J. K., MSc	Lectr
Madden, B. G., BSc	Lectr.
4 Tech. Officers	

**Chemistry**

Mellor, D. P., DSc Tas., FRACI	
(Inorg. C.) Prof, Hd of Sch	
Angyal, S. J., PhD Bud., MSc, FAA,	
FRACI (Org. C.) Prof	
Barclay, G. A., BSc PhD DipEd Syd	
(Inorg. C.) Assoc. Prof	
Bosworth, R. C. L., PhD Camb, DSc Adel,	
FRACI (Phys. C.) Assoc. Prof	
Cavill, G. W. K., MSc Syd,	
PhD DSc Liv., FRIC (Org. C.) Assoc. Prof	
Green, J. H., MSc Q'ld., PhD Camb	
(Nuclear & Radiation C.) Assoc. Prof	
Werner, R. L., MSc PhD	
(Phys. C.) Assoc. Prof.	
Anderson, J. R. A., MSc, FRIC	Sr Lectr
Aylward, G. H., MSc	Sr Lectr.
Backhouse, J. R., MSc Syd, PhD	Sr Lectr
Bryson, A., MSc RappSc Q'ld., PhD	Sr Lectr
Buchanan, G. S., MSc Syd	Sr Lectr
Carswell, D. J., MSc PhD DipEd Syd	
	Sr Lectr.
Cole, E. R., MSc Syd, PhD	Sr Lectr.
Courtney, J. L., BSc PhD	Sr Lectr.
Davies, N. R., BSc PhD Lond., FRIC	Sr Lectr.
Dumstun, W. J., MSc Syd	Sr Lectr
Eade, R. A., MSc Syd, PhD Liv.	Sr Lectr
Garnett, J. L., PhD Chic., MSc	Sr Lectr
Gastagne, R. M., MSc Syd, PhD Liv.	Sr Lectr.
Graddon, D. P., MSc PhD Macq	Sr Lectr
Gutmann, F., PhD Vienna, FIP	Sr Lectr
Harris, C. M., BSc PhD	Sr Lectr
Lark, P. D., BSc Syd., MSc	Sr Lectr
Livingstone, S. E. M. R., BSc PhD	Sr Lectr
Martin, L. W. O., BSc Syd	Sr Lectr.

Martin, R. J. L., MSc Melb, PhD Lond.

O'Brien, K. G., MSc Syd, PhD

Simos, J. J., MSc DipEd Syd, PhD Lev

Sutton, G. L., MScPhD, FRACI, FRIC

Swanbourne, E. S., BSc PhD

Backer, N. T., MSc

Cleary, P. S., BSc PhD Tas

Craven, B. R., MSc

Crawford, B. R., BSc

Fendley, T. J. V., BSc PhD St. Aust

Goodwin, H. A., BSc PhD Syd

Gregor, I. K., MSc

Johnson, W. D., BSc Syd., MSc N E

Lennox, Mrs. Sidonie L., PhD Victoria

Martin, E. C., MSc

Morris, B. S., MSc Syd.

Stephenson, N. C., MSc Syd, PhD

Taylor, C. R., BSc Syd

Watson, E. C., BSc

10 Teaching Fellows, 13 Tech. Officers,

1 Sr Tutor, 2 Demos

### Civil Engineering

Munro, C. H., BE Syd. Prof., Hd. of Sch.

Shaw, F. S., BE W. Aust., BSc Gt. W.,

DEng Melb Prof.

Carmichael, A. J., BE PhD Assoc. Prof.

Hall, A. S., DIC, BSc(Eng) Lond Assoc. Prof.

Valentine, H. R., BE Syd, MS Iowa Assoc. Prof.

Archer, F. E., BSc BE Syd Assoc. Prof.

Armstrong, S., BScTech Manc, Sr Lectr.

PhD Sheff Sr Lectr.

Balint, P., BE Bud, ME Sr Lectr.

Battle, H. J., DIC, BE Syd, PhD Sr Lectr.

Hattersley, R. T. Sr Lectr.

Jenkins, J. L., DIC, BE Syd., ME Sr Lectr.

Kitchen, E. M., BE Syd Sr Lectr.

Nettleton, A. F. S., DIC, BSc BE Syd., Sr Lectr.

ME Sr Lectr.

O'Connor, D. C., BE Syd, ME Sr Lectr.

O'Neill, L. V., BE Syd. Sr Lectr.

Richardson, P., GradGradEng T.H. Delft, Sr Lectr.

ME Sr Lectr.

Ryan, P. W. S., DIC, ME Sr Lectr.

Watson, K. K., BE Syd., ME Sr Lectr.

Welch, G. D., BE Syd., ME Sr Lectr.

Wiesner, C. J., BSc Adel. Sr Lectr.

Woodhead, R. W., BE Syd., ME Sr Lectr.

Burton, J. R., BE Syd. Lectr.

Cridland, L., BE Lectr.

Douglas, A. G., ME Lectr.

Dudgeon, C. R., BE Lectr.

Edwards, L. S., BSc Melb., BE Syd Lectr.

Ellen, P. E., BE N Z Lectr.

Foster, T. R., BE Lectr.

Fischer, H. K., Diplng T.H. Hansen Lectr.

Foster, D. N., BE Syd Lectr.

Frisch-Fay, R. A., BE Bud, ME Lectr.

Harris, G. S., ME N Z Lectr.

Howell, D. T., BE Syd Lectr.

Jones, P. B., BE Syd. Lectr.

Jumars, T., BE Lectr.

Laurensen, E. M., BE Lectr.

Leamouth, J. R., BE Syd. Lectr.

Newman, W. M., DIC, BSc Lond Lectr.

Patten, B. J. F., BE Syd. Lectr.

Pilgram, D. H., BE Lectr.

Somerville, L. J., BE Lectr.

Ward, O. G. F. Lectr.

Werner, A. P. H., Diplng Baux Lectr.

Wood, I. R., BE N Z, ME Lectr.

4 Teaching Fellows, 6 Tech. Officers

### Economics

Kemp, M., BCom MA Melb, PhD

Johns, H. Prof., Hd. of Sch.

Hunter, A., MA Glas Prof.

Child, J., BCom MA N Z, DPhil Oxon.

Kubinski, Z. M., MA Leeds Sr. Lectr.

Lamberton, D. M., BE Syd Sr. Lectr.

Layton, R. A., MSc Syd Sr. Lectr.

Rivett, K. D., MA PhD Melb. Sr. Lectr.

Rowley, Sheila, MA W. Aust, MSc

PhD N. Carolina Sr. Lectr.

Runtz, N., BE Syd., PhD Lond Sr. Lectr.

Stalley, D. J., MSc Adel Sr. Lectr.

Ford, G. W., BA DupEd Syd,

MA(Econ) U.C. L.A. Lectr.

Gorday, I., BE Syd. Lectr.

McColl, G. D., BSc(Econ) Lond Lectr.

Swan, N. M., BSc(Econ) Lond Lectr.

2 Teaching Fellows, 2 Res. Asst.

### Electrical Engineering

Vowels, R. E., ME Adel Prof., Hd. of Sch.

Speedy, C. B., BE N Z, PhD Syd Prof.

Dewanap, G. C., MEE Melb Assoc. Prof.

Huey, R. M., BSc BE Syd. Assoc. Prof.

Blake, A. P., BSc BE Syd. Sr. Lectr.

Clarke, R. H. J., BE Sr. Lectr.

Donaldson, G. W., MA BSc Oxon.,

BE O'ld. Sr. Lectr.

Dunworth, A., BSc PhD Manc. Sr. Lectr.

Gilbert, C. P., MSc Durh. Sr. Lectr.

Harrison, H., BSc BE Syd., ME Sr. Lectr.

Miller, C. H., BE Tas. DPhil Oxon. Sr. Lectr.

Mortimer, E. L., BSc(Eng) Lond. Sr. Lectr.

Parker, G. J., BSc BE Syd. Sr. Lectr.

Roberts, J. E., BSc(EE) Durh.

MS(EE) M.I.T. Sr. Lectr.

Simpleton, C. A., BSc BE Syd. Sr. Lectr.

Bason, P. T., BE Lectr.

Brown, R. F., BE Liv. Lectr.

Chalton, W. H. Lectr.

Cole, D. J., BE Melb. Lectr.

Hill, L. C., BE Lectr.

Humphries, H. L., BSc BE BE Syd Lectr.

Johnson, G. J., MSc Syd. Lectr.

Lewin, F., BSc BE Syd. Lectr.

Pawloff, O., Diplng Berl. Lectr.

6 Teaching Fellows, 9 Tech. Officers

### English

Oliver, H. J., MA Syd. Prof.

Quentin, C. R. B., MA Oxon.

(Drama) Assoc. Prof.

Burgess, O. N., MA DipEd Syd	Sr. Lectr	Derrick, G. H., BSc Q'ld, PhD Syd	Sr. Lectr
Elkm, P. K., BA DipEd Syd, BLitt Oxon		Elliot, A. G. L., BSc W Aust	Sr. Lectr
	Sr. Lectr.	Graffius, J. L., BA MSc DipEd Syd	Sr. Lectr.
Geering, R. G., MA DipEd Syd	Sr. Lectr.	Groden, C. M., DipMath Zür	Sr. Lectr
Gunge, A. M., BA Syd	Sr. Lectr.	Kirkpatrick, C. B., MSc Syd	Sr. Lectr
Krmer, Mrs. Leonie, BA Melb., DPhil Oxon	Sr. Lectr	Lupton, S., MSc Lev	Sr. Lectr.
Weiner, A. B., BA Temple, PhD Yale	Sr. Lectr.	Low, A. H., MSc DipEd Syd, PhD	Sr. Lectr.
Allen, J. M., BA Rand & Oxon	Lectr	McKay, M. H., MA DipEd Syd.	Sr. Lectr
Castell, N. R., MA Syd	Lectr	Sandford, J. St. A., MSc Syd.	Sr. Lectr
Colman, E. A. M., MA Glas	Lectr	Sewes, S. A., MSc DipEd Lond	Sr. Lectr
Coupet, J. M., MA PhD Abert	Lectr	Smith, W. E., MSc Syd., BSc Oxon	Sr. Lectr
Heseltine, H. P., BA W Aust,		Cox, C. D., BSc DipEd Q'ld	Lectr
MA PhD Louisiana	Lectr	Eggar, M. A., DrNatSci DipEd Berl	Lectr
Tick, S., MA NY	Lectr	Greening, M. R., MA Lond.	Lectr
		Hanson, M. A., BSc Q'ld, MSc Melb	Lectr
		Lyness, J. N., MA DPhil Oxon	Lectr

**Highway Engineering**

Orchard, D. F., DIC, BSc PhD Lond.	Prof	McGillivray, C. A., BSc BEd Q'ld	Lectr.
Cagill, W. H., MSc Cape T. & Canb	Sr. Lectr	Mustard, D. A., BSc Syd.	Lectr
Cumming, D. A., MA Oxon.	Sr. Lectr.	Pretorius, W. J., DIC, MSc Rhodes	Lectr
Spencer, L. C., BE	Sr. Lectr.	Prokhavnik, S. J., BA BSc Melb	Lectr
Turney, D. G., BE NZ	Lectr	Ruschel, A., MSc DipEd Syd.	Lectr
2 Tech. Officers		Staff, P. J., BSc DipEd Syd.	Lectr
		Vagholkar, M. K., MSc Bom., DIC, PhD Lond	Lectr.
		2 Teaching Fellows	

**History**

Salmon, J. H., MA NZ, MLitt Camb.	Prof.	<b>Mechanical Engineering</b>	
Nairn, N. B., MA Syd.	Assoc. Prof	Willis, A. H., BSc(Eng) PhD Lond.	
Turnbull, M. R. M., MA NZ,			Prof., Hd of Sch
BLitt Oxon	Sr. Lectr	Kettleborough, C. F., BE PhD Sheff	Prof
Fletcher, B. H., BA Syd.	Lectr.	Bryant, R. A. A., ME	Nuffield Res. Prof
Ingham, S. M., MA Melb	Lectr.	Hall, N. A., BE BSc Syd., SM M.I.T.	Assoc. Prof
Meaney, N. K., MA Adel., PhD Duke	Lectr.	Hirschhorn, J., DipEng DrTechSc Vienna	Assoc. Prof.
O'Farrell, P. J., MA NZ	Lectr.	Wood, J. F. D., BSc BE Syd.	Assoc. Prof.
Packer, D. R. G., MA Melb.	Lectr	Allen, A. F., BE	Sr. Lectr.
Yarwood, A. T., BA DipEd Syd	Lectr	Barna, P. S., BE Bad., ME Syd	Sr. Lectr.
		Bonamy, S. E., BE Syd., MSc Biru	Sr. Lectr
	Prof	Carroll, A. J., BE Syd.	Sr. Lectr.
		Cosbett, R. E., DIC	Sr. Lectr.
		Davis, G. de Vahl, BE Syd., PhD Camb	Sr. Lectr
		Hool, J. N., BE Syd., DPhil Oxon.	Sr. Lectr.
		Knott, A. D., BSc BE Tas., MA Oxon.	Sr. Lectr.

**Hospital Administration**

Peira, A. J., BCom Melb.,		Munto, J., BE Syd.	Sr. Lectr.
MA(HospAdmin) Jono	Lectr	Sapsford, C. M., BSc(Eng) Lond., MB	Sr. Lectr.
Gillam, R. C., BA Syd., DipEd NZ		Szomassaki, E., MEngSc Poland, BEc Tas.	Sr. Lectr.
Supervisor, External Studies		Tobiaser, E. R., DipEng DrTechSc	
Asst. Supervisor, External Studies		Alberione	Sr. Lectr

**Industrial Arts**

Haynes, L. M., BA Med Syd	Assoc. Prof.	Tuft, R. J.	Sr. Lectr
Lodge, K. A., BE Syd.	Lectr.	Wass, K., DipEng Vienna, ME	Sr. Lectr
McDonald, G. K., BA Syd.	Assoc. Lectr	Baker, L. H., BE	Lectr
1 Tech. Officer		Bennett, G., BA Syd.	Lectr.

**Librarianship**

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Univ. Librarian, Hd of Sch		ME	Lectr
Radford, Wilms, BA Syd., BS Cal	Sr. Lectr	Bowditch, H. G.	Lectr.

**Mathematics**

Bosson, G., MSc Lond.	Prof., Hd. of Sch.	Byron, R. A. V., BE Syd.	Lectr.
Blatt, J. M., BA Chis., PhD Can. & Prin.,		Cisco, J. F. C., BSc BE Syd.	Lectr.
FAPS	(Appl. M.) Prof	Coake, N., BSc Lond.	Lectr.
	(Pure M.) Prof.	Craddock, H. S., BE Syd.	Lectr.
Douglas, J. B., MA BSc DipEd Melb	Assoc. Prof.	Harrison, J. Y., BE Syd	Lectr
Delves, L. M., MSc NZ, DPhil Oxon			
	Sr. Lectr		



## Physics

- Milner, C. J., MA PhD Camb, FIP  
(Appl P.) Prof, Hd. of Sch.  
(Exper P.) Prof.
- Lederer, J., BSc Syd, MSc  
(Optometry) Assoc Prof
- McConnell, J. F., MSc Syd, PhD Assoc Prof
- O'Dwyer, J. J., BSc BE Syd, PhD Lect.
- Assoc Prof.
- Cusnow, C. E., BA MSc Syd, Sr. Lectr
- Hansen, D., MSc Syd, PhD R'dy Sr. Lectr
- Hansen, N. R., BSc DipEd Syd, MSc Sr. Lectr
- Kelly, J. C., BSc Syd, PhD R'dy Sr. Lectr
- Lehmund, R. E., BSc PhD St. And Sr. Lectr
- Perry, L. G., BSc DipEd Syd, MSc Sr. Lectr
- Pollard, H. F., MSc W. Ass. Sr. Lectr
- Amigo, G., BSc Lectr
- Bowen, L. O., BE BSc W. Ass., MSc Lectr
- Barrows, K. R., BSc W. Ass. Lectr
- Gutierrez, J. E., BSc Syd Lectr
- Godfrey, G. H., MA BSc Syd, FIP Lectr
- Gainger, C. T., BSc DipEd Syd, Lectr
- MSc N.E.
- Hanscomb, J. R., BSc Q'ld Lectr
- Harris, L. B., BA Durh, BSc Lond Lectr
- Harris, R. W., BSc Syd Lectr
- Harting, E., BSc Lectr
- Lang, M. McN, BSc Lectr
- Marsden, K. H., BSc Lond, MSc Lectr
- Milledge, J. A., MSc DipEd Syd Lectr
- Schwartz, A., Dupling Vinnus, MSc Lectr
- Shepanski, J. R., MSc Syd Lectr
- 4 Teaching Fellows, 8 Tech. Officers, 1 Sr.  
Demr, 4 Donas

## Physiology

- Korner, P. I., MD BS MSc Syd Prof.
- Daman-Smith, L., MD BS Adel. Assoc. Prof.
- (Pharmacol.) Assoc. Prof.
- Edwards, A. W. T., MB BS Syd Sr. Lectr
- McKenzie, J. S., MSc Melb. Sr. Lectr
- Ryan, R. D., BSc BE Syd Sr. Lectr
- 3 Tutors, 1 Tech. Officer

## Political Science

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- Marchant, P. D., BA Syd., PhD A N U. Lectr
- Pallesman, A. C., LdsScPol Grewen, Lectr
- MA A N U.

## Psychiatry

- Assoc. Prof.\*

## Psychology, see Appl Psychol.

## Sociology

- Browe, M. S., MA DipEd Syd, PhD Lond Prof
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- Felding, H. J., MA BSc DipEd Syd., Sr. Lectr
- PhD A N U.
- Rennison, Geraldine A., MA Camb, Lectr
- CerSocSciAdm L S E

## Surgery

- Rundle, F. F., BSc MD BS Syd., FRCS, Prof.
- FRACS, FACS
- Tracy, G. D., MB BS Syd, FRCS, FRACS
- Assoc. Prof., Actg. Hd. of Sch.
- Johnston, J. B., MD ChB Aberd, MS Mdu., FRCSed
- (Cardiopulmonary S.) Assoc. Prof.\*
- Jones, C. S., MB ChB Cape T., MS Mdu., FFRCS (Anaesthesia) Assoc. Prof.\*
- Murnaghan, G. F., MD ChM Edin, FRCS, FRCSed (Urol.) Assoc. Prof.\*
- Hercus, V. M., MD BS Syd, MRCPed Sr. Lectr.\*

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- Chauhan, M., BSc PhD Lond, DipEng
- L I T Shinghai, FTI Prof
- Datymor, A., BSc PhD Lond., FTI Assoc. Prof.
- Skewchly, A. R. B., BSc Melb, MSc PhD Lond, BSc(Soc) Lond., FTI
- Assoc. Prof.
- Johnson, A., MSc Lond, FTI Sr. Lectr
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- Wood, F., BSc Lond. Sr. Lectr
- Dicks, A. D., BE Syd., DipTextInd Lond Sr. Lectr
- Kenny, P., BSc Lectr
- Samson, A., DipEng L.I.T. Shinghai, BE Lectr
- 4 Tech. Officers

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- Munro, R. D., BSc W. Ass., BA Melb. Sr. Lectr
- Turner, H. J. A., BSc Lond., ME Sr. Lectr
- Tindall, J. I., BE Q'ld. Lectr

## Wool Technology

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- Johnstone, I. L., BVSc Syd Assoc. Prof
- McManus, W. R., BScAgr Syd, PhD Sr. Lectr
- Roberts, F. M., MAgSci N Z, PhD Sr. Lectr
- Goldstone, C. L., BAgSci N Z Lectr
- McFarlane, J. D., BScAgr Syd Lectr
- Whately, K. J., PhD Lond, BSc Lectr
- 4 Tech. Officers, 1 Demr.

\* Conjoint appt. with Prince Henry Hosp

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Dep. Registrar (Student Services): J. B. Rowe,  
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Accountant: E. H. Davis. Officer-in-Charge,  
Bldg. Planning & Devel.: C. Parkes, Hon. DSc,  
FRIBA, FRAIA. Dir., Inst. of Admin.: S. C.  
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Res.: L. N. Short, MSc DipEd Syd, DPhil Oxon.  
Co-ordinator of Gen. Studies: P. K. Elkin, BA  
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Fraser. Supervisor of Amenities: I. R. Crack-  
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## ASSOCIATED COLLEGES

## NEWCASTLE UNIVERSITY COLLEGE

Established 1951

Postal Address: Tyne's Hill, Newcastle, 2N, New South Wales, Australia

Cables and Telegrams: Newuni

Telephone: Newcastle MA 0466

Warden—J. J. Auchmuty, MA PhD Dub.,  
FRHistS.

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Librarian—E. Flowers, MA Syd

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Hd. of Division of Arts—Assoc. Prof. B. Newton-  
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Hd. of Division of Engineering—Assoc. Prof.  
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## Teaching Staff

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W. R. Walker, MSc DipEd Syd.; F. L. Ward,  
MSc Q'ld. Lectrs.: K. A. Allen, MSc N.Z.;  
E. B. Jacobs, BSc Syd.; H. R. Tietze, MSc Lond.  
+ Teaching Fellow, + Tech. Officer.

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DipChmE Syd.; P. W. Kierman, BE Adm.  
Lectr.: W. G. Field, BE + Tech. Officer.

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Smith, MA DipEd Melsb. + Sr. Tutor.

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MA N.Z. Sr. Lectr.: K. W. Robinson, MA  
N.Z. Lectrs.: E. Desbryshere, BA. DipEd  
N.Staffs., MSc MG; W. F. Geyl, BSc Lond.,  
DipPhys-Geog Utrecht + Tutor.

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DipEd Syd, PhD Tas.; J. H. Rattigan, MSc  
Adm. Lectrs.: B. A. Engel, MSc NE; A. S.  
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Camb. Sr. Lectr.: J. M. Ritchie, MA Adm.,

DrPhil Tubogen. Lectrs : Marlene J Norst, BA DipEd Syd ; J. D Stowell, BA Melb

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PHILOSOPHY Sr. Lectr. : A. M. Ritchie, MA Syd., PhD Lond. Lectrs : A. J. Anderson, BA Syd., D. W. Dockrill, BA Syd.; W. V. Doucels, MA Syd., DrPhil Freib.

PHYSICS Sr. Lectr. : S. C. Baker, MSc Syd., PhD Lectrs : K. J. Auburn, BSc Syd., DIC, MSc Lond.; J. D. Balf, MSc Q'ld., J. E. Cleary, BSc; G. A. Harle, MSc Syd., J. A. Ramsey, MSc Melb

PSYCHOLOGY Sr. Lectrs : D. R. Martin, BA DipEd Syd., J. W. Staines, BA BEc Syd., BEc Melb., PhD Lond Lectrs : R. Fenelon, BA

Q'ld.; A. C. Hall, BA F'dg., J. A. C. Price, BA Q'ld

#### General Information

Under the terms of its act of incorporation the Univ. has power to establish colls. within the state of N.S.W. and under this power establish Newcastle Univ. Coll. in Dec. 1951. The govt. of the coll. is vested in the council of the Univ. A bd. of studies consisting of the 41 members of the academic staff of the coll. supervises the teaching and examining of courses at Newcastle and is responsible to the professorial bd. and the council of the Univ. In March 1962 a council for the coll. was appointed, consisting of 12 members. Operating within the act, regns., by-laws and decisions of the Univ. Council, the coll. Council will initiate and supervise the planning of the coll. bldgs. to be erected at Shortland.

LIBRARY. 49,288 vols

FIRST DEGREES (of Univ. of New South Wales) BA pass, hon.; BArch pass, hona., BCom pass, hona. (accty., econ.), BE pass, hona. (civil, electr., mech. engin.); BSc pass, hona. (chem. engin., indust. chem., sci.); BSc(Tech) no hona. (pt-time) (chem. engin., civil engin., electr. engin., indust. chem., mech. engin., metall.). For length of courses, see p. 77

HIGHER DEGREES (of Univ. of New South Wales) MA and, depending on particular field of study, ME, MCom, MSc and PhD. For length of courses, see p. 77

DIPLOMAS Postgrad. dipl. in educ. (DipEd).

STUDENT NUMBERS. Enrolments at Newcastle, 1962: 1266, consisting of higher degree, 31; DipEd, 31; 1st degree full-time, 410; 1st degree pt-time, 763; misc., 31

### WOLLONGONG UNIVERSITY COLLEGE

Established 1961

Postal Address : North Wollongong, New South Wales, Australia  
Telephone : Wollongong B 7301

Warden and Hd. of Division of Engineering—  
Prof. C. A. M. Gray, BSc ME Syd

Registrar—, . . .

Librarian—, . . .

#### Teaching Staff

CHEM. : E. Gullert, PhD Berke, Sr. Lectr.; F. M. Hall, MSc, W. K. Hannan, MSc Syd., I. H. Reece, MSc, Lectrs., 1 Sr. Tutor, 1 Teaching Fellow. ELECTRIC ENGIN. : O. W. Tinsucker, MEE Melb., Sr. Lectr., W. H. Charlton, Lectr. MATHEM. : T. S. Horner, BSc DipEd Syd., Lectr. MECH. ENGIN. : S. C. Bonamy, BE Syd., MSc Berke, PhD, Sr. Lectr.; P. C. Arnold, BE, M. J. Lowrey, BE, A. W. Roberts, BE PhD, R. W. Upfold, ME, P. Van der

Werff, BE, Lectrs.; 1 Tech. Officer. METALL. : G. Branson, MSc Melb., PhD Staff, Sr. Lectr., T. W. Barnes, R. G. Robins, MSc PhD, Lectrs. PHYS. : B. Mansbridge, BSc Tar, PhD A.N.U., A. I. Segal, BSc Melb., Lectrs

#### General Information

The coll. was established by the Univ. in 1961. The governing body is the Univ. Council and the professorial bd. supervises teaching and examination of courses.

LIBRARY. 5288 vols

FIRST DEGREES (on Univ. of New South Wales) BSc pass (chem.); BSc(Tech) no hona. (pt-time) (electr. engin., mech. engin., metall.). For length of courses, see p. 77



HIGHER DEGREES (of Univ of New South Wales). ME, MSc and PhD depending on particular field of study. For length of courses, see p. 77.

STUDENT NUMBERS Enrolments at Wollongong, 1962-3, 308, consisting of higher degree, 6, 1st degree full-time, 8, 1st degree pt-time, 288, msc, 6

## GENERAL INFORMATION

The univ was incorporated by act of the N.S.W. parliament on July 1, 1949—initially under the name of 'The N.S.W. Univ of Technology'—to meet the increasing demand in Australia for grads. in scientific and technol fields. In 1958 these original objectives were extended by the Univ. of N.S.W. Act, 1958, which gave the univ power to provide courses and res facilities and award degrees in the fields of med and humane studies and in such other fields as the council may from time to time determine. Courses for the BA degree were first offered in 1960, and in med (MB BS) in 1961.

The univ from its inception has provided courses in the traditional fields of scientific education and has built up schools in engin and in the physical, math and biol. sciences. On this foundation the univ. has in recent yrs. extended its activities into such specialized technol fields as wool technol., textile technol., fuel technol., and highway and traffic engin. Courses are offered for degrees in most fields on both a full-time and a pt-time basis. The first coll of the univ was establd at Newcastle in 1951. A second univ coll was establd. at Wollongong in 1961, with its own bldgs at North Wollongong. At Broken Hill pt-time courses in mining engin., mech. engin. and metall for BSc(Tech) degree, and in chem. for BSc degree, are available. The univ staff and equipment are accommodated in the tech coll.

The univ has establd. within its academic structure a no. of sp insts to develop res. and conduct courses in fields which overlap the traditional subv divs. There are insts. of admin., highway & traffic res., nuclear engin and rural technol.

The univ has also establd a company, Uni-search Ltd, controlled by the univ council, to provide a res. and testing service to industry. All profits are given to univ.

Sydney (pop 2,181,311) is the capital and metropolitan city of the state of N.S.W.

CONSTITUTION. The univ. is governed by a council of 37 members representing the state parliament, industrial, commercial and agricultural bodies, employee organizations, tech educn., professl orgns, the Univ. of Sydney and the univ.'s own academic staff and its undergrads. and grads. The professional bdy is the main academic body of the univ. There are 7 fca whose membership is made up of the sr. members of the constituent achs.

INCOME (1961) Operating, £A1,993,348 (state parliament grants, 49.81 per cent. Commonwealth parliament grants, 33.81 per cent.; fees & contributions from industry and other sources,

16.38 per cent.). Also in 1961 the state parliament provided £A1,075,000 and the Commonwealth parliament £A1,420,000 to meet capital expenditure of bldgs, furnishings and equipment. In addition contributions from industry, comm and other sources towards sp insts and other purposes amounted to £A1,095,814.

FACULTIES AND DEANS (1962) *Appl. sci.* Prof. M. Chaslen (textile technol.), *archit.* Prof. F. E. Townsend; *astr.* Prof. M. S. Brown (social); *comm.* Prof. E. B. Smyth (economy); *engin.* Prof. A. H. Willis (mech. engin.); *wood.* Prof. F. F. Rundle (surg.); *sci.* Prof. J. F. Clark (appl. psychol.)

UNIVERSITY PRECINCT. The main site of the univ is in the Sydney suburb of Kensington where the original area of 70 acres was in 1960 enlarged to 95 acres with the acquisition of an adjoining golf course. Development at Kensington has reached the stage where all of the univ.'s achs except elect., mech. and civil engin. are located on this main site. The engin. achs are at present located in the grounds of the Sydney Tech. Coll. but bldgs to accommodate the achs of elect. and mech. engin. are under constrcn at Kensington. The 1st bldg. of the med. sch. is nearing completion on the campus at Kensington.

LIBRARY. Central lib. at Kensington and jt. collections in univ. coll. and tech. coll. librs. used by staff and students. Univ. holdings in all collections. 193,841 vols.

LABORATORIES. In addition to teaching labs. in the sci. and engin. achs, there are a no. of specialized labs. including a radiochemical res. lab., the UTECOM computing lab and, at Manly Vale, the water res. lab.

HOSPITALS. Teaching Hospitals—Prince Henry H., Little Bay; Prince of Wales H., Randwick. Other hospis associated with univ.: Canterbury District H.; Mater Misericordiae H., North Sydney; Royal H. for Women, Paddington; St. Margaret's H. for Women, Darlinghurst.

EDUCATIONAL RESEARCH UNIT. Establd 1961. Undertakes res into teaching of univ. educn practices and techniques, and study of problems of higher educn. Includes teaching aids service.

ADMISSION. See Appendix III.

ADMISSION OF NON-MATRINS. With the approval of bdy of achs. concerned, unmatriculated students may attend classes and take exams., but such study cannot be counted as meeting the requirements for a degree.

PUBLIC EXAMINATIONS. See Appendix III.

**FIRST DEGREE** 3 yrs.—BA pass (4th yr for hons in Engl, hist, philos, sci thought, psychol, social, econ, maths), BSc pass (4th yr for hons in appl. chem., biochem., chem., geol., maths, microbiol., entomol., phys., psychol., theory of stats, zool.), BCom pass (4th yr. for hons in accty., appl. psychol., indust. relns, econ, stats, wool comm.). 4 yrs.—BBuild, BOptom, BSc pass, hons (appl. geol., ceramic engin., chem. engin., food technol., fuel technol., indust. arts, indust. chem., metall., polymer sci., textile technol., wool technol.). BE pass, hons (civil, elect., mech., mining, indust. engin.). BSurv pass, hons., 5 yrs (6th yr. for hons.)—BSc (appl. psychol.) (pt-time), BArch pass, hons., combined BSc BE (civil, elect., mech. and indust. engin.), 6 yrs—MB BS pass, hons., BSc(Tech) (pt-time), no hons (aeron. engin., ceramics, chem. engin., civil engin., elect. engin., food technol., fuel technol., indust. arts, indust. chem., indust. engin., mech. engin., metall., naval archit., polymer sci.) Courses for the BCom, BArch, BSurv and BSc (gen. sci. and appl. chem.) degrees may also be taken by pt-time study. Candidates for hons. do work addnl. to that required for pass degrees.

Students in face of appl. sci., engin., med and sci. study the common 1st-yr subjs., maths, phys. chem plus a 4th subj. from psychol., engin., gen. biol. or geol. Choice of 4th subj. depends on course being taken.

Full-time and pt-time courses leading to degrees in appl. sci., archit., arts, comm., engin. and sci. are conducted at Newcastle Univ. Coll. (see p. 74).

A limited number of courses leading to degrees in appl. sci., engin. and sci. are conducted at Wollongong Univ. Coll. (see p. 75).

In all undergrad. courses a certain amount of time is devoted to the study of subjs. of a gen. educ. character outside the student's particular field. Students in facs other than arts take courses in the humanities and soc. sci., while arts students take 2 courses in scientific subjs. A 2nd feature is the inclusion of periods of practical trng. in industry as an essential part of the scientific and technological courses to supplement the lab. and lecture room work.

**HIGHER DEGREES** Research degrees: MA, MSc, ME, MArch, MCom, MBuild, at least 2 yrs. from bachelor's degree of this or other approved univs. Candidates for these degrees may register either as full-time or pt-time students or as students working externally to the univ. (Pt-time students normally take more than 2 yrs to complete the requirements.) Under certain conditions grads. may submit theses for the award of MSc or ME without supervision, PhD (available in facs of arts, appl. sci., archit., comm., engin. and sci.), at least 3 yrs from bachelor's degree with hons. or equivalent from this or other approved univs MD, at least 3 yrs from MB BS with hons. or equivalent from this or other approved univs. DSc (also hon.) in facs. of appl. sci., engin. or sci., 5 yrs or more from 1st degree. Degrees with formal instruct. MTech (available in facs. of

engin. and appl. sci.), 1 yr full-time, 2 yrs pt-time (chem. engin., concrete structures, elect. engin., highway engin., hydraulics & hydrol., machine design, nuclear engin., pub. health engin., structural analysis, traffic engin.), MHA, 2 yrs. (1 yr at univ., 1 yr admin. experience in hospo.), MAdm (sch. of business admin.), 2 yrs pt-time.

**DIPLOMAS** Postgraduate Coal and mineral processing, food and drag analysis, food technol., fuel technol., highway engin., indust. engin. and wool technol., open to grads in appropriate fields, 1 yr full-time, 2 yrs pt-time Librarian-ship, 2 yrs pt-time Educn (DipEd), at Newcastle Univ. Coll., 1 yr full-time.

**Undergraduate** The univ. since 1951 has provided the student in dipl. courses in fields of comm., engin., sci. and technol. leading to the N.S.W. dept. of tech. educn's dipl. award (ASTC). Commencing in 1961 these courses are being gradually withdrawn and replaced by 6-yr pt-time degree courses leading to the univ.'s new pass degree BSc(Tech).

Dipl. in sociol. (3 yrs pt-time).

**SPECIAL POSTGRADUATE COURSES** In addition to courses leading to a higher degree, the univ. presents series of lectures designed to keep grads in touch with latest devels in their respective fields. Less intensive courses on specific technol. problems are given to personnel in industry. The univ. operates its own radio station, VLaUV, and through this medium presents special courses covering a wide field. The 'med sch. of the air' provides courses of interest to med. practitioners. The station's broadcasting range is 100 miles.

**STUDY LEAVE** Academic and sr. admin. staff, one yr after 6 yrs' service, or in the case of profs., 6 mos. after 3 yrs' service. Provision is made for special cases.

**FEE** Payable by all students: univ. union membership, £A6 p.a.; students' union and sports assocn. membership, £A3 p.a.; library fee, £A5 p.a. Undergrad., intric., £A3; graduation, £A3; full-time course fee (except comm. and arts), £A120 p.a.; pt-time course fee, £A60 p.a.; comm. full-time and pt-time course fees, £A60 p.a.; arts course fees, (pov.) £A27 p.a. per subj. (hons.) £A36 p.a. per subj. DSc, £A31; 10s. PhD: registration, £A2; graduation, £A21; supervision, £A30 p.a. MSc, ME, MArch, MCom: registration, £A2; graduation, £A15; internal students, full-time, £A30 p.a.; pt-time £A15 p.a.; external students, £A20 p.a. MHA: registration, £A2; graduation, £A3; course fees, 1st yr., £A12, 2nd yr., £A30 MTech and grad. dipl., registration, £A2; graduation, £A3; course fee, term payment of £A2 multiplied by no. of weekly hrs. of instructn. involved.

**ACADEMIC YEAR** March to Nov.: 3 terms of 10 wks each.

**VACATION COURSES** (a) Summer sch. for chem. teachers in Jan. Proceedings publ'd. annually as

*Approach to Chemistry*, (b) Summer sch. for maths teachers.

**PRINCIPAL 'OPEN' ENTRANCE SCHOLARSHIPS** (For candidates reading for a first degree) Commonwealth scholships (see p. 13) awarded by Cwth. govt., fees & living allowance, all fees. Jt. Coal Bd. & Aust. Coal Assocn. (Res.), Ltd. £A300-£A500 p.a. plus fees for 4 yrs. in electr., mech. or mining engin., or fuel technol. The John Heine £A100-£A150 p.a. for final 2 yrs. in mech., electr., or chem. engin., appl. chem. or metall. Wool Industry scholships in wool technol. £A500 p.a. for 4 yrs. Wool Res. Trust Fund (6) £A400 p.a. for 4 yrs. in text. technol. or wool technol. Text industry scholships in text. technol. £A500 p.a. for 4 yrs. Food technol. scholships: £A400 p.a. for 3 or 4 yrs. Colonial Sugar Refining Co. Ltd. scholship in comm., £A600 p.a. for full-time study.

**POSTGRADUATE FELLOWSHIPS, ETC.** I.C.I.A.N.Z. res. fellowship for British Commonwealth grads. £A1100 p.a. for a yrs. for study in fields related to interests of I.C.I.A.N.Z., Consolidated Zinc Metall. scholship for graduates in metall., £A600 p.a. for 1-3 yrs. for res. in the industry with which the co. is associated, Australian Atomic Energy Commission res. studentships, £A500 p.a. for 1-3 yrs.; Harold G. Conde Memorial fellowship, £A800 for 1-3 yrs. for study or res. in electr. indust., Arthur Newbold Memorial res. fellowship, £A1000 for 1-3 yrs. for study of refrigeration; General Motors-Holden's res. fellowships, £A800-£A1200 p.a. for 1-3 yrs.; atmospheric pollution res. fellowships, £A1000-£A1200 p.a. for 1-3 yrs.; Commonwealth postgrad. awards (see p. 13), £A700-£A900 p.a. for 1-4 yrs.

**STUDENT COUNSELLING AND RESEARCH UNIT** Established 1961. Provides counselling services incl.

individual and group counselling and study skills programmes. Also conducts res. into factors affecting student progress.

**STUDENT EMPLOYMENT SERVICE** Established 1961. Assists undergrads to obtain part-time and vac. employment. Also arranges indust. trg. programmes annually.

**RESIDENCE** Accommod. is provided at Kensington in Besser Coll. for 200 men students in residence. Tutorial assistance available for resident students. (Address: Box 24, P.O. Kensington).

**UNIVERSITY REGIMENT** Established in 1951, the univ. regiment is organized as an infantry bn. with an establ. of 35 officers and 805 other ranks. It consists of Bn. H.Q. (3 platoons), support coy (4 platoons) and 4 rifle coys. C.O.: Lt.-Col. J. F. Whittle, MBE.

**UNIVERSITY UNION** Established 1960, the union is located in a large circular bldg. at Kensington and provides dining rooms, common rooms, bank agencies, shopping and hairdressing facilities. Membership compulsory for all students (annual fee: £A6). Governed by bd. of management representing univ. council, staff, grads. and undergrads.

**PUBLICATIONS** *Calendar with Annual Report* (10s.), *Research Report* (annually); *Faculty Handbooks*, *Newcastle Univ. Coll. Handbook*, *Technology*, *University News*; *Pace-Chancellor's Letter to Graduates*. Student Publications: *Tharwa* (fortnightly during term), *Engineering Yearbook*, *Science Yearbook*, *Orientation Handbook*.

**UNIVERSITY FILMS** Established 1961 as a company limited by guarantee, consisting of 10 members nominated by univ. council and students' union.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** N.S.W. Dept. of Main Roads, £A62,500 to establish inst. of highway and traffic res.; Wool Res. Ctr., £A46,660 for res. in wool and textile technol.; Nuffield Foundation, £A26,840 for Nuffield res. chair of mech. engin.; Aust. Inst. of Nuclear Sci. & Engin., £A15,477 for res.; Aust. Atomic Energy Commission, £A10,754 for res.; Sir Adolph Besser, £A10,000 for Besser residential coll. (Total value of all benefactions received. £A326,534).

**MAJOR BUILDING DEVELOPMENTS** Bldgs. approaching completion: chem. bldg., Kensington.

**NEW CHAIRS** Architect (and chair), bot., exper. phys., mod. lang., obstet. & gynecol., ped., psychiatry, sociol., chem. (Newcastle Univ. Coll.).

**RETIREDMENTS.** E. W. Dodds (mech. engin.); D. W. T. H. Ehlers (electr. engin.); H. McDi. McLachlan (mech. engin.).

**RESIGNATIONS.** W. E. C. Andersen (appl. psychol.), apptd. lectr. in educn., Syd.; M.

Bernasek (econ.), to further studies; V. Bofinger (maths.), apptd. lectr. in mathl. stats., Syd.; B. Chiswell (chem.), to further studies; Dr. G. T. Cassidy (mech. engin.), apptd. assoc. prof. in mech. engin., Ararat; H. N. Edwards (electr. engin.), apptd. to post with C.S.I.R.O.; Prof. S. B. Hatfield (hosp. admin.), to private practice; L. Hession (archit.); Dr. Helen Hughes (econ.), apptd. lectr. in econ., Adel.; G. Karoly (electr. engin.), apptd. to post in indust.; Assoc. Prof. A. Keane (maths.), apptd. to post with A.A.E.C.; C. St. J. Lamb (electr. engin.), apptd. to post in indust. (Gt. Britain); Prof. D. G. Lampard (electr. engin.), apptd. to post with C.S.I.R.O.; J. W. McCarty (econ.), apptd. lectr. in econ., Syd.; B. J. Ogilthorpe (chem. technol.), apptd. to post in indust.; J. W. Paull (civil engin.), to further studies; R. G. Smart (electr. engin.), apptd. to post in indust.; C. S. Soper (econ.), apptd. reader in econ., Melb.; Assoc. Prof. F. Woulard (archit.), apptd. to foundation chair of archit. constrcn., Auckland; N. F. Wood (mech.

engin.), apptd to post in indust; Prof L C Woods (mech. engin.), apptd demr, Balhoi Coll, Oxford. *Newcastle University College* Dr. I P Barke (French), apptd as lectr in French, Melb, T Gluchareff (electr engin.), apptd to post in indust.

# Statistics

## STUDENT NUMBERS, 1962\*

(as at July 31, 1962)

	Full-Time	Part-Time	External
Men	2505	5433	34
Women	477	275	1
Total	2982	5708	35

Distribution by Faculties *Appl sci*, 1159; *archit*, 646; *arts*, 830; *comm.*, 1364; *engin.*, 2777; *med*, 136; *sci*, 1578; *bd. of vocational studies*, 215 Total 8725

Included in the figures above are —

New admissions, 2322

Postgraduate students, 746 (530 higher degrees, 187 dipla)

Students from other countries, 711 (Countries from which largest numbers come: Malaya, 215, Hong Kong, 155, Singapore, 120, Indonesia, 33; India, 30)

DEGREES AWARDED (1961). *Appl sci*: BSc, 52, BSc (hons), 30; BE, 4, BE (hons), 5, MSc, 13; PhD, 4. *Archit*: BAArch, 7; BArch (hons), 2; MArch, 1. *Arts*: BA, 31, BA (hons.), 10, MA, 1. *Comm*: BCom, 43, BCom (hons.), 3. *Engn*: BE, 109; BE (hons.), 31, MTech, 28, ME, 14; PhD, 2. *Sci*: BSc, 75, BSc (hons.), 8; MSc, 12; PhD, 9

DIPLOMAS AWARDED (1961). DipEd, 15; DipFoodTech, 1, DipHE, 1

\* Excluding 430 msc students (352 men, 87 women)

# UNIVERSITY OF QUEENSLAND\*

Founded 1909

Postal Address · St. Lucia, S.W. 6, Brisbane, Queensland, Australia

Cables and Telegrams · University, Brisbane

Telephone · Brisbane 72021

VICED-CHANCELLOR—H. E. Col. Sir HENRY ARTHUR SMITH, KCMG, KCVO, DSO, Hon. LL.D.  
 CHANCELLOR—Sir ALBERT ARON, KBE, Hon. DEng. Melb., MBE, MBEAust.  
 DEPUTY-CHANCELLOR—H. G. WATKIN, BA DipEd. Hon. LL.D.  
 VICE-CHANCELLOR—Professor Sir FRED SCHONELL, MA Birk., PhD D.Lit. Lond., FBP&S.  
 WARDEN OF COUNCIL—Sir ALAN MANSFIELD, KCMG, LL.B. Syd.  
 REGISTRAR—C. J. CONNELL, BCom AAUQ, FASA, FCAA.  
 LIBRARIAN—H. BRYAN, MA.

## TEACHING STAFF

[†=Part-Time]

<b>Accountancy</b>		Fallon, G. R., BVSc	Leet.
Gynther, R. S., AAUQ, FASA, FCAA		2 Demrs., 1 Sr. Res. Fellow, 3 Res. Fellows,	
	Sr. Lectr.	5 Lectrs.	
Beck, G. W., BCom AAUQ	Lectr.	<b>Architecture</b>	
Hajek, E. J., JuDr. Prague	Lectr.	Cummings, R. P., Hon. BArch, FRIBA,	Prof.
Sanderson, L. R., AAUQ	Lectr.	FRAIA	
Meredith, G. G., BComm BEc	Temp. Lectr.	Lucas, F. B., BArch. Syd.	Reader
2 Jr. Lectrs., 10 Lectrs. †		Juppenlatz, M.	Sr. Lectr.
<b>Agriculture</b>		Marquis-Kyle, S. J., DipArch	Lectr.
Teakle, L. J. H., BScAgric W. Aust., MS		Graig, W. A.	Lectr.
PhD Canb.	Prof.	Carr, W. H., BAArch. Melb., MA Canb.	Lectr.
Skerman, P. J., MBE, BA DAgSci	Reader	9 Lectrs. †, 1 Sr. Demr., 6 Sp. Demrs.	
McCarthy, W. O., MAgrSci N.Z.,		<b>Biochemistry</b>	
PhD Iowa	Sr. Lectr.	Webb, E. C., MA PhD Canb.	Prof.
Wood, H. L., MSc Adel., BSc PhD, FRACI	Sr. Lectr.	Hines, H. J. G., BSc Lond.	Assoc. Prof.
Tully, Miss Joan, BSc W. Aust.,		MacDonald, K., MSc Syd.	Sr. Lectr.
PhD Lond.	Sr. Lectr.	Dunstone, J. R., MSc DipEd. Syd.	Lectr.
Waring, S. A., BAgrSci Syd. (Agron.)	Lectr.	Masters, C. J., MSc N.Z.	Lectr.
Fox, W. E., BSc	Lectr.	Doherty, Miss M. D., MSc PhD	Lectr.
Hughes, J. D., BSc	Lectr.	2 Sr. Demrs., 2 Demrs., 4 Teaching Fellows,	
1 Sr. Res. Fellow, 8 Res. Fellows, 4 Lectrs. †,		1 Res. Fellow	
1 Demr.		<b>Botany</b>	
<b>Animal Husbandry</b>		Herbert, D. A., DSc Melb.	Prof.
Dowling, D. P., BVSc BSc Syd.,		Langdon, R. F. N., MAgrSci PhD	Reader
PhD Canb.	Prof.	Wilson, G. L., DPhil Oxon., BAgrSci	
Campbell, E. A., BSc Edu., MA		(on leave)	Sr. Lectr.
PhD Canb.	Sr. Lectr.	Aberdeen, J. E. C., MAgrSci PhD	Sr. Lectr.
Pryor, W. J., BVSc Syd.	Sr. Lectr.	Cribb, A. B., MSc PhD	Sr. Lectr.
Mellin, G., BAgrSci Adel., PhD Edu.,		Clifford, H. T., MSc Melb., PhD Durh.	Lectr.
MAgrSci	Sr. Lectr.	Barlow, B. A., BSc PhD Syd.	Lectr.
Spanghail, J. A., MBE, BVSc Syd.	Lectr.	Priest, D., BSc PhD Lond.	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Slater, W. G., MSc Melb., DPhil Oxon. Lectr  
1 Sr Demer., 9 Demers., 4 Demers.†

**Chemistry**

Jones, T. G. H., CBE, DSc Syd., Hon LLD, FRACI Prof  
Lahay, F. N., DSc, FRACI Res Prof  
Edmondson, E. S., BSc BScApp, FRACI (Indust. C.) Assoc. Prof  
Lauder, I., MSc N.Z., PhD Maw., DSc, FRACI Assoc. Prof.  
Flowerman, R. A., BSc PhD Lond., FRACI (Inorg. C.) Reader  
Sutherland, M. D., MSc N.Z., DSc, FRACI Reader  
Jenkins, G. H., BSc MScApp, FRACI (Sugar Technol.) Sr Lectr  
Grigg, E. C. M., MSc Sr Lectr.  
Alexander, D. M., MSc PhD N.Z. St. Lectr.  
Hall, J. R., DPhil Oxon., MSc Lectr.  
White, E. T., BScApp (on leave) Lectr  
Wells, P. R., BSc PhD Lond., FACS Lectr  
Carmen, R. M., MSc PhD N.Z. Lectr.  
Broomhead, J. A., MSc Syd (on leave) Lectr  
Thompson, M. J., BSc PhD Lectr  
Barnea, G. T., BSc PhD (Phys. C.) Lectr  
MacDennott, T. E., BSc Syd Lectr  
George, M. H., BSc PhD Edin Lectr  
Rathowsky, D. A., BChE N.Y., PhD Wash.  
3 Sr Demers., 5 Demers., 9 Teaching Fellows, 6 Demers.†

**Classes**

Cooper, C. G., MA St. And Prof.  
Pryor, A. D., MA Camb Sr Lectr.  
Barrett, D. S., MA Lectr.  
Howes, J. R., BA Melb. & Oxon Lectr.  
Wilkinson, Beryl M., MA PhD Bryn Mawr, BA Lectr.  
Kelly, R. A., BA N.S.W. Lectr.  
1 Lectr.†

**Dentistry**

Sagar, J. A., DDS Tor., BDSr Prof.  
Pearn, J. O., MDSr Reader  
Remsey, E. D., MDSr Reader  
Kruger, B. J., DDS Northwestern, DDSr Reader  
McDougall, W. A., MDSr BSc (on leave) Sr Lectr.  
Martin, K. H., MDSr Sr Lectr.  
Junner, B. A., MDSr Lectr.  
Grimes, W. D., MDSr Lectr.  
Roper, M. G., MDSr Lectr.  
Wizman, C. F., MDSr Lectr.  
13 Temp. Lectrs., 8 Lectrs.†

**Divinity**

13 Lectrs.†

**Economics**

Gifford, J. K., MA Glas. Prof.  
Lane, W. R., MA Camb., MCom Sr Lectr.  
Reitens, A. J., DEcon Rotterdam Sr Lectr.  
Palmer, G. R., BSc Melb., BSc Syd Sr Lectr.  
Price, G., BCom Lectr.  
Harris, C. P., MCom BCom AAUQ Lectr.  
Hughes, Mrs. H., MA Melb., PhD Lond Lectr.  
Gurton, R. J., BCom Lectr.  
3 Jr Lectrs., 5 Lectrs.†

**Education**

Bassett, G. W., MA DipEd Syd., PhD Lond Prof.  
Campbell, W. J., MA DipEd N.Z., PhD Lond Reader.  
Meddleton, I. G., PhD Lond., BCom Sr Lectr.  
Lang, R. C., BSc BEd BA IF Aust Sr Lectr.  
McLeod, J., BSc Mon., EdB St. And. Sr Lectr.  
Smith, Hazel M., DipSocStud Syd., BCom (Soc. Stud.) Sr Lectr.  
Cochrane, R. G., BA MED Lectr.  
Denniswater, D. J., MA Syd & Lond (on leave) Lectr.  
Hallewell, L. M., BA DipSocStud DipEd Melb. (Soc. Stud.) Lectr.  
Bowker, E., MA DipEd Lic Lectr.  
Evans, G. T., BSc BEd DipEd Lectr.  
Watts, Betty H., BA BEd Lectr.  
McRae, Jean I., BA DipSocStud Syd (Soc. Stud.) Lectr.  
Leary, J. R., BA DipEd Melb. Lectr.  
Wise, J. H., BSc Lectr.  
Hartshorn, Alma E., DipSocStud Syd, BA (Soc. Stud.) Half-time Lectr.  
1 Sr Demer., 4 Demers., 12 Lectrs.†, 2 Demers.†

**Engineering, Civil**

Lavery, J. H., BSc Oxon., ME, MIEAust Prof.  
McKay, G. R., BEng PhD Liv., MIEAust Reader  
Stoney, A. J. McC., BEE Melb Sr Lectr.  
O'Connor, C., BE St. Lectr.  
Brickbeck, G. H. M., DIC, BE (on leave) Sr Lectr.  
Apelt, C. J., DPhil Oxon., BE Sr Lectr.  
Meek, J. L., MS Calif., BE BSc Sr Lectr.  
Mapp, W. A., BE Lectr.  
Gourley, M. R., BSc BE Syd. Lectr.  
Nilsson, R. D., BE BSc Lectr.  
Boffing, H. E., BE N.S.W. Lectr.  
1 Demer., 12 Lectrs.†

**Engineering, Electrical**

Prentice, S. A., MEE BSc Melb., MIEAust Prof.  
Dunnell, T. M., PhD Lond., BSc BE Reader  
Darveniza, M., PhD Lond., BE Sr Lectr.  
Jordan, T. A., BSc(Eng) Lond Lectr.  
Mages, B. I., BE Lectr.  
Fraser, S. G., BE Lectr.  
Mackerras, D., BSc Syd., BE Lectr.

Bogner, R. E., ME *Adel*  
1 Sr. Demr., 4 Demrs., 5 Lectrs.†

## Computer Centre

Overheu, D. L., BSc *IP Aust.*  
Kelly, R. E., BE  
2 Programmers

## Engineering, Mechanical

Shaw, M., ME *Sheff.*, MMEchE *Melb.*,  
MIMechE  
Lashy, T. F., BE DipMEE Sr. Prof.  
Sheidan, N. R., MSc *Burn.*, BE DipMEE Sr. Lectr.  
(on leave) Sr. Lectr.  
Krok, T. V., BE *Syd.* Sr. Lectr.  
Bullock, K. J., BE PhD Sr. Lectr.  
Clark, D. J., BE DipMEE Sr. Lectr.  
Gilmour, C., BSc BE Lectr.  
Hooker, R. J., BE *Adel* Lectr.  
Pester, G. A., MA *Canb.* Lectr.  
Juler, P. A., BMechE *Melb.* Lectr.  
1 Sr. Demr., 4 Demrs., 7 Lectrs.†

## Engineering, Mining and Metallurgical

White, F. T. M., BMetE *Melb.*, FIM, FGS Prof.  
Gregory, C. E., BE BA *Adel.*, ME BEcon Sr. Lectr.  
Waring, J., BScTech *Manc.*, MSMetEng Sr. Lectr.  
Wit, FIM Sr. Lectr.  
Hogan, L. McN., MSc *Melb.* Sr. Lectr.  
Russell, B., BEMet *N Z.*, PhD *Burn.* Sr. Lectr.  
Ball, W. R., BScEng DipMD&CP *Leeds*  
(on leave) Lectr.  
Brewer, C. W., MSc *Melb.* Lectr.  
Vance, W. E., MSc *Nott.* Lectr.  
1 Demr., 3 Teaching Fellows, 1 Res. Officer,  
2 Lectrs.†

## Chemical Engineering

Brooks, P. C., MScApp IndChem Sr. Lectr.  
SMChemEng *M I T.*, FRACI Lectr.  
Howarth, W. J., BSc *N.S.W.*

## English Language and Literature

Cawley, A. C., MA PhD *Leeds*. Prof.  
Thomson, A. K., MA Prof.  
Hadrup, C. H., BEd *Melb.*, MA DipEd Reader  
Cochrane, G. R., MA *Melb.*, DipEdPhon  
Libl. *Paris* (Phonetic) Sr. Lectr.  
Flint, E. H., MA Sr. Lectr.  
Hamilton, K. G., BEd MA (on leave) Sr. Lectr.  
Henger, Eunice, MA Lectr.  
Wilson, R. B. J., MA DipEd *Syd* Lectr.  
Gorton, S. H., BA *Leeds* Lectr.  
Harris, J. W., MA *Canb.* Lectr.  
Goodwin, K. L., BA DipEd *Syd.* Lectr.  
Bonnell, Valma M., BA AEd Lectr.  
Kybars, H. E., CanDis *Aust.* Lectr.  
6 Jr. Lectrs., 1 Res. Fellow

## Entomology

Peckins, F. A., BAqSc *Syd* Reader  
Woodward, T. E., DIC, MSc *N Z.*, PhD Sr. Lectr.  
Exley, Elizabeth M., DIC, MSc Sr. Lectr.  
1 Sr. Res. Fellow, 3 Demrs., 1 Demr.†

## French

Mahoney, J. C., BLitt MA *Oxon.*, BA Prof.  
Dunat, A. H. M., L&SL DipEd *EtSup Toulouse* Sr. Lectr.  
Campbell-Brown, Kathleen, MA Sr. Lectr.  
Coe, R. N. C., MA *Oxon.*, PhD *Leeds* Sr. Lectr.  
McWatters, K. G., DUG *Grenoble*, BA Lectr.  
Dowling, J. K., DU *Arx-Marseille*, BA Lectr.  
AED Lectr.  
Currie, M., BA *Oxon* Lectr.  
2 Jr. Lectrs.  
Russian  
Coe, Mrs. V. S., BA *Syda*, DipEd *Oxon* Sr. Lectr.

## Geography

Greenwood, R. H., MA *Canb.* Prof.  
Duncan, C., MA *N Z.*, PhD *Ohio State* (on leave) Sr. Lectr.  
Duck, R. S., MSc *N Z.* Sr. Lectr.  
Lloyd, P. E., BA *Burn.* Lectr.  
Tagby, Mrs. E. E., MSc *Syd* Lectr.  
Slaven, A., MA *Glas* Lectr.  
3 Demrs.

## Geology and Mineralogy

Wilson, A. F., MSc *Adel.*, DSc *W. Aust.*,  
FGS Prof.  
Hill, Dorothy, PhD *Canb.*, DSc, FAA, FGS Res. Prof.  
Jones, O. A., MSc *Canb.*, DSc Reader  
Byrn, W. B., BA *Dartmouth*, MA Sr. Lectr.  
PhD *Wit.*  
Krens, R., BASe *Br. Col.*, MSc *Qu.* Sr. Lectr.  
PhD *Chce.*  
Maxwell, W. G. H., DIC, BSc PhD, FGS Sr. Lectr.  
Robinson, E. V., BA Lectr.  
Webb, J. P., PhD *St. Louis*, BSc Lectr.  
Stevens, N. C., BSc PhD *Syd.* Lectr.  
Layton, W., BSc PhD *Durk.* Lectr.  
... Lectr.  
3 Demrs., 5 Teaching Fellows, 5 Lectrs.,  
3 Demrs.†

## German

Leopold, K., MA *Syd.*, PhD Reader  
Bonnin, G. M., BA *Leeds*, MA PhD *Stan.* (on leave) Sr. Lectr.  
Powell, A. W., BA Lectr.  
McInnes, M., MA DipEd *Edm.* Lectr.  
1 Jr. Lectr.

**History and Political Science**

- Greenwood, G., MA *Syd.*, PhD *Lead*  
 McCaughey Prof  
 Neale, R. G., MA DipEd *Melb* Reader  
 Schaffner, B. B., BScEcon PhD *Lead*  
 (on leave) Reader  
 Rawson, D. W., MA PhD *Melb* Reader  
 Morrison, A. A., MA St Lectr  
 Joyce, R. B., BA LLB *Syd.*, MLitt *Camb* Sr Lectr.  
 Truman, T. C., BA *Melb*, MA (on leave) Sr Lectr  
 Singhal, D. P., BA *Pony*, MA *Pony (I)*, PhD *Lead* Sr Lectr.  
 Grimshaw, C., BA DipEd *Syd*, MA Sr Lectr  
 Tarling, P. N., MA PhD *Camb* Sr Lectr.  
 Knight, K. W., MSc *Syd* Sr Lectr.  
 Staveley, R. W., BSc *Syd*, MA PhD *Chic* Sr Lectr.  
 Stoodley, June, BA Lectr.  
 Bredt, C. B., BA *Melb* Lectr.  
 Richardson, J. P., BSc(Econ) *Lead* Lectr.  
 Kay, M. L. M., BA *Maryville*, PhD *Manu.* Lectr.  
 5 Jr Lectrs, 2 Res. Fellows, 2 Lectrs †

**Journalism**

7 Lectrs †

**Law**

- Harrison, W. N. L., BA *Oxon.* & *Q'ld*, LL.M. Gairick Prof  
 Sykes, E. I., LL.D. *Melb.*, BA (Pub. L.) Prof.  
 Ryan, K. W., PhD *Camb*, BA LLB Sr Lectr.  
 Morris, J. M., MB BS LLB Sr Lectr.  
 Garber, P., LLB St Lectr.  
 Lamb, R. D., LL.M. *Melb*, DPhil *Oxon.* Lectr.  
 McPherson, B. H., BA *Natal* & *Camb*, LL.B. Lectr.  
 Hocker, P. J., LLB Lectr.  
 6 Lectrs. †

**Mathematics**

- Davis, C. S., DFC, MSc *Syd*, PhD *Camb* Prof.  
 Mahony, J. J., BA BSc *Melb.*, PhD *Manu.* (Appl. M.) Prof.  
 McCarthy, J. P., MA Assoc. Prof.  
 Pinocan, H. M., MA *Oxon.*, BA Reader  
 Morris, G. R., BSc *Syd*, BA PhD *Camb* Reader  
 Powell, H. K., MA BSc Sr Lectr.  
 Oguztoreli, M. N., PhD *Istanbul* Sr Lectr.  
 O'Donnell, M. P., MSc Sr Lectr.  
 Stiller, E. T., MSc *DeMath. Ley.* Sr Lectr.  
 Woolcock, W. S., PhD *Camb.*, BSc Sr Lectr.  
 Howard, L. E., BSc Lectr.  
 Poppo, Myra A., BA Lectr.  
 Kelly, L., OBE, BSc *Lead*, MIMechE Lectr.  
 Cvetkov, B., *DeMath. Sofia* Lectr.  
 Greenhalgh, H., MA Lectr.  
 ... Lectr.  
 6 Jr Lectrs, 1 Teaching Fellow, 2 Lectrs †, 2 Demos †

Medicine, see below

Metallurgy, see Engin., Mining and Metallurgical

Mineralogy, see Geol.

Modern Languages, see Inst. of Mod. Langs., below

**Music**

- Shandon, H. E., FTCL Sr Lectr.  
 Spensatti, G. D., MusBac *Melb*, BA Lectr.  
 1 Lectr. †

**Parasitology**

- Sprent, J. F. A., PhD DSc *Lead*, FRCS Prof.  
 Passon, J. C., MA PhD *Tor* Sr Lectr.  
 Hoyte, H. M. D., BSc *Edin.*, PhD *Camb* Lectr.  
 3 Sr Res. Fellows, 3 Lectrs. †

**Pharmacy**

- Dare, J. G., PhD *Lead* Reader  
 Williams, C. H., BSc DipPharm *Syd*, MSc Lectr.  
 Harris, W. A., BSc Lectr.  
 Buckley, D., MSc *Manu.* Lectr.  
 1 Demo.

**Philosophy**

- Presley, C. F., BA *Wales*, BLitt *Oxon.* Prof.  
 James, G., BD *Melb*, MA Sr Lectr.  
 Valke, V. T., PhD *Lead*, MA Sr Lectr.  
 Owend, R. G., MA *Edin* Lectr.  
 Smith, B., BA Lectr.  
 2 Lectrs †

**Physical Education**

- Burge, I. C., BPhysEd *Springfield*, BCom BA PhD Dir.  
 Simpson, K. E., BA DipPhysEd AEd Asst. Dir.  
 2 Instrns., 8 Lectrs †

**Physics**

- Webster, H. C., CMG, PhD *Camb.*, DSc *Tor*, FIP Prof.  
 Reimann, A. L., PhD *Berl*, DSc *Adel.*, FIP Res. Prof.  
 Robertson, D. F., MSc Reader  
 Parsons, R. W., BSc *Adel.*, DPhil *Oxon.*, FIP Reader  
 Thomas, J. A., BSc *Adel.*, PhD Reader  
 McNicol, R. W. E., MSc *Camb* & *Q'ld*, PhD (on leave) Sr Lectr.  
 Crouchley, J., BSc *W. Aust.*, MSc *Adel.* Sr Lectr.  
 Noon, J. H., PhD *Roch*, MSc Sr Lectr.  
 Muggleston, D., BSc *St. And*, PhD *Lead* Sr Lectr.  
 Lench, W. B., MSc PhD *Melb* Sr Lectr.  
 Burke, M. J., BSc *Syd.*, MSc Lectr.



Singleton, D. G., MSc	(on leave)	Lectr.	Tucker, R., BVSc <i>Warraw</i>	
Stevens, K. A., BSc		Lectr.	DVMHabit <i>Mumukh</i>	Lectn.
Taylor, R. G. S., BA MSc		Lectr.	Watson, J. W., BVSc	Lectn.
Forrest, B. J., BSc Lond.		Lectr.	1 Sr. Demr., 1 Demr., 1 Sr. Res. Fellow,	
Goodman, G. L., BA MSc Adel.		Lectr.	2 Lectrs.†	
McGiverny, J. F., BSc		Lectn.		
Bowman, G. G., MSc PhD		Lectr.		
Mosley, W. A., MSc PhD N.Z.		Lectr.		
Hammons, J. S., BSc PhD Adel.		Lectr.		
McInnes, B. A., BSc Syd.		Lectr.		
Lande, A. T., BSc		Lectr.		
Monro, P. E., BSc		Lectr.		
3 Sr. Demrs., 7 Demrs., 6 Half-time Demrs.,				
11 Teaching Fellows, 8 Demrs.†				

**Physiology**

Hawker, R. W., BS Syd., MD Syd. & Q'ld.,	Prof.
PhD, MRACP	
Budtz-Olsen, O. E., ChB MD Cape T.	Prof.
Ladd, R. J., BVSc BSc Syd., PhD Lond.	Reader
Kratzberg, C. C., MSc Syd., PhD Lond.	Reader
Blackshaw, A. W., DVSc Syd.	Sr. Lectr.
Cross, R. B., PhD Edin., BSc MB BS	Sr. Lectn.
Lapton, A., BSc PhD Lond.	Sr. Lectr.
	Sr. Lectr.
Klomen, G. H., BSc	Sr. Lectr.
Whyte, J. M., BSc Melb.	Lectr.
Harvey, Nancy E., MSc	Lectr.
Booth, Mollie, MB BS Syd., PhD Lond.	Lectr.
1 Sr. Demr., 11 Demrs., 2 Res. Fellows,	
3 Demrs.†	

**Political Science, see Hist. and Pol. Sci.****Psychology**

McElwain, D. W., MA N.Z. & Melb.,	
PhD Lond., FBP&S	Prof.
Naylor, G. F. K., MSc MA DipEd Syd.,	
PhD, FBP&S	Reader
Kents, J. A., BSc Adel., BA Melb., AM	
PhD Prin.	Reader
Harwood, Elsie, MA PhD	Sr. Lectr.
Tagboy, D. J., BSc Syd., BA Melb.,	
PhD A.N.U.	Sr. Lectr.
Mangan, G. L., BEd Melb., MA N.Z.,	
PhD Lond.	Sr. Lectr.
Mortimer Tanner, R. S., BA	Lectr.
Enticknap, L. E., MA	Lectr.
Dumms, J. T., BA BEd	Lectr.
1 Demr., 6 Half-time Demrs., 12 Lectrs.†	

**Russian, see French****Surveying**

Buley, J. V., BSc Melb.	Reader
Miller, P. C., BSurv	Lectr.
Harley, I. A., DipPhotogrammetry U.C.	
Lond., BSurv	Lectr.
6 Lectrs.†	

**Veterinary Anatomy**

May, N. D. S., MSc	Sr. Lectr.
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(on leave) Lectr.	
Lectr.	
Lectr.	
Lectr.	
Lectr.	

**Veterinary Clinical Studies**

Burns, R. H. G., BVSc Syd.	Reader
Osborne, H. G., BVSc Syd.	Reader
English, P. B., MVSc	Sr. Lectr.
Bernman, J. A., BVSc Syd.	Lectr.
Grono, L. R., BVSc Syd.	Lectr.
Lectr.	

1 House Surgeon, 1 Res. Offices, 7 Lectrs.†

**Veterinary Preventive Medicine**

Francis, J., DSc Lond., FRCVS	Prof.
Winters, H., DMedVet Vienna	Sr. Lectr.
Seawright, A. A., BVSc BSc	Sr. Lectr.
Olds, R. J., PhD Camb., BSc Bact. <i>Melb.</i>	
BVSc	Sr. Lectr.
1 Demr., 1 Sr. Res. Fellow, 2 Res. Fellows	

**Zoology**

Stephenson, W., BSc PhD Durh.	Prof.
Blakely, M. C., MSc N.Z., DPhil Oxon	
	Sr. Lectr.
Endean, R., MSc Syd., PhD	Sr. Lectr.
Mather, W. B., BSc Tas., MSc Melb.,	
PhD	(on leave) Sr. Lectr.
Dell, W., MSc	Lectr.
Bayly, I. A. E., MSc N.Z.	Lectr.
Steenhouse, D., MA BSc N.Z.	Lectr.
Lee, A. K., BSc W.Aust.	Lectr.
Hulstone, T. S., BSc	Lectr.
Greenwood, J. G., MSc N.Z.	Lectr.
2 Sr. Demrs., 7 Demrs., 3 Teaching Fellows,	
1 Res. Fellow	

**MEDICINE****Anatomy**

Hickey, M. F., MA MB BS	Prof.
Arnold, M., MB BCh Lond., FRCSEd	Reader
Ramsell, J. R., BSc MD ChB St. And	Reader
Hwang, U. K., MD Kewen, PhD <i>Mum</i>	
	Sr. Lectr.
Mitchell, Miss R. E., BMedScAnat	
MB ChB N.Z.	Lectr.
7 Temp. Lectrs., 1 St. Demr., 1 Demr.†	

**Child Health**

Rendle-Short, T. J., MA BChn MD Camb.,	
MRCP	Prof.
Jackson, D. C., DSc MB BS Melb.	
(Paediatrics) Half-time Sr. Lectn.	
2 Teaching Registrars, 1 Soc. Worker, 1	
Half-time Occupat. Therapist, 7 Clin.	
Lectrs., 27 Asst. Clin. Lectrs., 2 Sp.	
Lectrs., 5 Tutors	

**Medicine**

Tyrer, J. W. H., BS MD Syd., MRCP,	
FRACP	Prof.

Lloyd, H. M., BCh MA DM Oxon.,  
PhD Lond, MRCP (Cln) Reader  
Parfitt, A. M., BA MB BChr Camb.,  
MRCP (Cln) Sr Lectr  
Emmerson, B. T., MB BS, MRACP  
(Cln) Sr Lectr  
Sanders, Dorothea F., MSc IP Aust.,  
PhD Lond Half-time Sr Lectr  
5 Teaching Registrars, 1 Dentr., 12 Cln  
Lectrs., 19 Asst Cln Lectrs., 16 Sp  
Lectrs., 26 Tutors

**Microbiology**

Sherman, V. B. D., BAgSc DSc Prof  
Reader  
Beck, K. J. C., MSc Syd, PhD Sr Lectr  
Halliday, W. J., BSc Med, PhD War  
(on leave) Sr Lectr  
Atherton, J. G., BScApp(MedSc) PhD Sr Lectr  
Brightman, V., PhD Chic, MDSc Sr Lectr  
Skyring, G., BSc Lectr  
1 Sr. Dem., 1 Dentr., 6 Teaching Fellows,  
1 Sr. Res. Fellow, 2 Res. Fellows, 3  
Lectrs., 8 Dentr.†

**Obstetrics and Gynaecology**

Shadden Adam, G. W., MB BS Syd,  
FRCSed, FRCOG Half-time Prof  
Ester, E. J., MB BS Half-time (Cln.) Sr Lectr.  
Cary, I. E., MB BS Half-time (Cln) Sr Lectr  
3 Teaching Registrars, 8 Cln Lectrs., 21  
Asst. Cln. Lectrs., 6 Sp Lectrs., 5  
Tutors

**Pathology**

Cheney, A. J., BSc MB BS Syd, FRACP Prof  
Ingles, J. A., MB BS Syd, MRCP (Cln P.) Reader  
Vickers, T. H., MB Syd (Cln) Sr Lectr  
Halliday, Mrs. J. W., PhD IPAs, BSc  
Half-time Lectr.  
Lectr  
Lectr  
1 Dentr., 1 Dentr.†

**Physiotherapy and Occupational Therapy**

Forster, Aura L. (Physiotherapy) Lectr.  
Philcox, Mrs. Sara (Occupnl. Therapy) Lectr  
Gesson, U. J. (Occupnl. Therapy) Lectr  
Fyfe, Margaret C., Teacher's Cert Lond  
(Physiotherapy) Lectr  
4 Dentr., 19 Lectrs., 2 Dentr.†

**Social and Preventive Medicine**

Gordon, D., MB BS Prof.  
Silverstone, H., MA N.Z., PhD Edin Sr. Lectr.  
Williams, M., MB BS Half-time Lectr  
1 Dentr., 27 Lectrs.†

**Surgery**

Mitchell, R. M., BMedSc MB ChM N.Z.,  
FRCS, FRACS (Cln) Reader  
Lanning, D. B., MB BS Durb., FRCS Sr Lectr  
3 Teaching Registrars, 9 Cln Lectrs., 35  
Asst Cln. Lectrs., 20 Sp Lectrs., 19  
Tutors

**EXTERNAL STUDIES**

Olsen, F. J., MEd Medb., BSc PhD Dir  
Goodman, R. D., BA BEd Medb.  
PhD A.N.U. (Educn) Sr Lectr  
Elliott, C. J., BSc(Econ) S'ton (Econ) Lectr  
McFarlane, B. J., BEd Syd (Econ) Lectr  
Gunn, J. M., BSc BA (Educn) Lectr  
Needham, Rev. G., MA Lond (Educn) Lectr  
Andrews, R. J., BA (Educn) Lectr  
Glad, A. H., BA (Engl) Lectr  
Sykes, Alrene M., BA Syd (Engl) Lectr  
Barry, Elaine F., MA S. Carolina, BA  
DipEd (Engl) Lectr  
White, Olive N., BA (French) Lectr  
Corfield, Mrs. N. C., BA (Hist) Lectr  
Dignan, D. K., BA DipEd (Hist) Lectr  
Lavery, J. R., BA (Hist) Lectr  
Ruddell, Caroline M., BA (Latin) Lectr  
Capell, K., BSc  
(Temp. Townsville) (Maths) Lectr  
Hardy, G. J. H., BSc (Maths) Temp. Lectr  
Rusdell, F., MA W. Aust (Philos) Lectr  
Theonten, N. S., BA Syd (Pol. Sci) Lectr  
2 Jr. Lectrs., 48 Lectrs.†

**INSTITUTE OF MODERN LANGUAGES**

Mitchell, W. F. (Chinese)†Tutor  
Pantchenko, A. (Chinese)†Tutor  
Bowker, Mrs. E., BA Lev (French)†Tutor  
Cochrane, G. R., MA Medb., DipEd Phon  
LisL Paris (French)†Tutor  
Dowling, J. K., DUAss-Marseilles, BA  
AEd (French)†Tutor  
McWatters, K. G., DUGrenoble, BA  
DipEd (French)†Tutor  
Bannan, G. M., BA Reed, MA PhD Staw.  
(German)†Tutor  
Bowker, E., MA DipEd Lev (German)†Tutor  
Cull, C. H., BA (German)†Tutor  
Powell, A. W., BA (German)†Tutor  
Kothari, N. M., BSc Bow. (Hindi)†Tutor  
Tan, S. H., BA (Indonesian)†Tutor  
McDonnell, R. E. (Italian)†Tutor  
Rusdell, F., MA W. Aust (Italian)†Tutor  
Sierco, F. (Italian)†Tutor  
Mathieson, K. M. (Japanese)†Tutor  
Jossiffe, R. J. (Malay)†Tutor  
Patson, N. (Mod Greek)†Tutor  
Pappadopoulos, Mrs. E., BA DipEd  
(Russian)†Tutor  
Young, Mrs. S. (Spanish)†Tutor

**AUSTRALIA**

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar S. A. Rayner, MEd Melb, EdD Ill., MA. Buser. L. N. Livingston, FASA Student Counsellor: H. W. Thiele, PhD Lond, MA. Manager of Univ Press: P. W. Thompson, MA Macb State. Univ. Architect: J. P. Burrell, BArch Melb. Asst. Registrars: H. B. Green; K. N. P. Chester, BCom Dep Librarian: D. B. Scott, BA. Asst. Student Counsellor: C. Williams, BA BEd. Student Health Officer: M. Williams, MB BS Admin Officer (Overseas Students): Helen Paterson, BA.

PRINCIPALS OF RESIDENTIAL COLLEGES: Crom-

well (Congregational) Rev G. L. Lockley, MA Syd; Duchesne (R.C. Women) Joan Percy-Dove, MA DipEd Syd; Emmanuel (Presb.) Rev. L. J. Douglas, BA BD Syd, King's (Methodist), master Rev. I. H. Gummelt, BD Melb, Dip Coll, ThD UT S.(N.Y.), MA, St John's (C of E), warden Canon A. L. Sharwood, MA Melb, ThD ACT, DipTh Oxon; St. Leo's (R.C.), rector: Rev Fr Johnston, MA N.U.I.; Univ. of Queensland Union Coll. (und denominational), hon warden: Prof. M. F. Hickey, MA MB BS, Women's (und denominational) Mary C. Niven, MA Syd

## ASSOCIATED COLLEGE

UNIVERSITY COLLEGE OF TOWNSVILLE

Established 1961

Postal Address: P. O. Box 499, Townsville, Queensland, Australia

Telephone: Townsville 92193

Warden—

Librarian—Jennepher North, BA

Sr Admin. Officer—J. W. Marshall

TEACHING STAFF: 807: Margaret M. Mackay, BSc St And, MSc Syd CHEM. J. T. Baker, MSc, Sr Lectr.; W. F. Power, BCom BSc, Lectr. EDUC. E. Scott, PhD BA Syd, Lectr. ENGRG. K. P. Stark, BE, Sr Lectr. B. S. Best, BE, Lectr. INGL. R. S. Smith, BA, J. R. Strugnell, MA Leeds, Lectr. PHYS. R. K. Moss, BA DipEd Melb, Lectr. GEOG. P. H. Bauer, MA Calif, PhD A.N.U., Lectr. GEOL. P. J. Stephenson, DIC, PhD Lond, BSc, Sr Lectr. HIST. I. N. Moles, MA, Sr Lectr. MATHS. K. Capell, BSc, Sr Lectr. B. B. Newman, BSc

DipEd, Lectr. PHYS. E. H. Carman, MSc PhD Melb, Sr Lectr.; B. C. Gibson-Wilde, BSc, Lectr. ZOOL.: R. P. Kenny, BSc W. Aust 4 Sr Demia, 3 Demia

GENERAL INFORMATION: In 1962, 1st-yr. classes provided in all facs. except archit., and 2nd-yr. classes in facs of arts, engin., sci. (incl. chem., educn., Engrl., hist., pure & appl. maths, phys.) also offered.

Student Residences: Men: Stuart House, Stuart Drive, Wulgara, Townsville (tel.: Stuart 321), £A6 p.w., 44 students; Principal—I. N. Moles, MA. Women: Dunsagan, Melton Hill, Townsville (tel.: Townsville 6247), £A6 p.w., 22 students; Principal—Margaret M. Mackay, BSc St And., MSc Syd

## GENERAL INFORMATION

The Univ. was establd. in Brisbane, the capital of Queensland, by an act of the state legislature in 1909 and teaching in the facs of arts, sci. and engin. commenced in 1911. Other facs. establd. were comm. 1926: agric. 1926; law 1930, dent. 1935; vet. sci. 1936; med. 1936; archit. 1948; educn. 1948. Provision for external students has been made since 1911.

The move from the temp. bldgs. to the permanent site at St. Lucia was planned in 1936 but as a result of war-time delays the transfer began only in 1949.

Enrolments first reached the following levels in the years indicated: 1000 (1934), 2000 (1945), 3000 (1946), 4000 (1948), 5000 (1956), 6000 (1958), 7000 (1959), 8000 (1960), 9000 (1961), 10,000 (1962)

Special strengths in engin., vet. sci. and agric. sci. have been developed through close connexion with and support from indust.

Recent devels. incl. the installation of a electron microscope and a digital computer centre.

A programme of interservice training for academic staff is held each year, incl. a course in teaching for dems. and jr. lectrs., a conference on teaching for new lectrs. and a seminar for sr. staff members.

The Univ. serves the state of Qld (pop. 1,522,329; area 667,000 sq. mi.) and enrolls external students from adjacent Commonwealth territories.

CONSTITUTION. The governing body, the senate, consists of 27 members, 14 apptd. by the governor in council, 9 elected by the Univ. Council.

(consisting of all grade, all teaching staff, benefactors, etc.), 3 ex-officio members (the director-general of education, vice-chancellor and the pres. of the prof. bd.) and an elected member of the staff assocn. A full-time vice-chancellor is the exco officer of the senate and the chief admin. officer of the univ.

The Univ. Coll. of Townsville is an associated coll.

INCOME (1962) £A3,098,000 (state govt., £A1,224,000, Commonwealth govt., £A1,050,486, fees, £A699,000, other, £A114,514).

FACILITIES AND DEANS (1962). Agric., Prof. L. J. H. Teakle, *archt.*, Prof. R. P. Cummings, *arts*, Prof. A. C. Cawley (Engl.), *comm.*, *econ.*, W. R. Lane, *educn.*, *dent.*, Prof. S. P. Lamb, *educn.*, Prof. G. W. Bassett, *engin.*, Prof. J. H. Lavery (civil engin.), *law*, Prof. W. N. L. Harrison, *med.*, Prof. N. G. Sutton (surg.), *sci.*, Prof. H. C. Webster (phys.), *vet. sci.*, Prof. J. F. A. Sprent (parasitol.).

UNIVERSITY PRECINCT. The St. Lucia site of 244 acres lies in a pocket of the river some 3 mls. from the centre of Brisbane (pop. 683,400). The facs. of arts, sci., comm. & econ., agric., law, vet. sci., educn., and archt., are accommodated in bldgs. on an elevated ridge. On the river flats are 5 ovals, 16 tennis courts, boat shed and other sporting facilities. Other bldgs. house admin., library, electr. engin., students' union, civil engin., surg., phys. educn. Extensions and new bldgs. for chem., biochem., anat., bot., entomol., engin. were brought into use in 1961-62. Further bldgs. for facs. and depts. now at other sites will be built at St. Lucia.

LOCATION OF OUTSIDE DEPTS. Child health, med., microbiol., obstet. & gynocol., pathol., soc. & prev. med., surg., at med. sch., Heaton Rd., Herston, Brisbane; med. & surg., Princess Alexandra H., Ipswich Rd., Wiggins, physiotherapy, occupnl. therapy and speech therapy, Herston Rd., Herston, Brisbane; exper. farm, Redland Bay, exper. mans., Indooroopilly, Brisbane, remedial educn. centre, depts. of mech. engin., mining and metall. engin., pharm. and music, George St., Brisbane, dent. coll., Turbot St., Brisbane, dept. of physiol., William St., Brisbane.

LIBRARY. 262,000 vols. incl. Fryer lib. (Aust.) 5800 vols., Thatcher lib. (ext. studies) 23,000 vols., Ringrose lib. (in country towns) 2300 vols., Darnell Pacific Inst. collection (hist. and culture of countries bordering Pacific ocean) 5700 vols. and depth librs. incl. musical scores and gramophone records.

LABORATORIES. Serenol. room and vault, radio res., radon, X-ray, hydraulics, high voltage engin. structures, soils and concrete, and normal dept. labs.

FIELD STATIONS. Redland Bay exper. farm (vegetable crops, sugar cane, tropical fibres, root crops, castor beans, tropical pastures and demon-

strations, 14 acres), Moggill exper. farm (150 mixed cattle grazing 450 acres of improved pastures, and cows, sheep, horses, pigs and poultry on 127 acres of which 90 acres improved pastures), univ. lab. for marine and field studies, Dunwich, Stradbroke Island, facilities for biochem., bot., geol., physiol. and soil res. available at marine res. sta., Heaton Island, Great Barrier Reef.

MUSEUMS. Anthropol. museum contains a high-quality collection of material from Australian aborigines and from New Guinea; geol. museum contains teaching and res. material with sp. collections in paleozoic corals and permian fossils; museum of pathol. has collection of specimens used for undergrad. and postgrad. teaching, teaching and hist. museums in various depts.

DARNELL ART COLLECTION. About 250 paintings and other works of art, mostly by Australian artists. Periodical exhibns of the collection held in Darnell Art Gallery. Darnell Library of the Fine Arts, reference books and art lit., 550 vols.

TEACHING HOSPITALS (and average teaching beds). Brisbane (930), Brisbane Children's (800), Brisbane Women's (200), Princess Alexandra (880), Mater Misericordiae (380), Chermide Chase H. (700), Goodna Mental H.

DEPARTMENT OF EXPERIMENTAL STUDIES. Facilities available incl. printed lectures, study guides, a lending library, an annual vacation sch. and individual guidance. The larger Q'ld. cities have univ. centres for tutorial classes. Staff members visit country centres periodically.

ADMISSION. See Appendix III. Enrolments close Jan. for new students. Overseas students should apply before Nov. and forward full credentials.

FIRST DEGREES (\* indicates degree can be completed wholly or in part by avg. study). 3 yrs.—BA\*, BCom\*, BEcon\*, BPharm\*, BSc\*, 4 yrs.—BA. hon., BCom. hon., BEcon. hon., BSc. hon., BAgSci, BScApp. (induct. chem. or geol.), BPhy., BE. (except in chem.), BSocSci, BSocSci, 5 yrs.—BVS, LLB\*, BE. (in chem.), BScFor, BDCSci; 6 yrs.—MB BS, BACh.\*

BA—10 units covering not less than 5 subjs. incl. at least 2 subjs. passed in 3 pts and 1 subj. passed in 2 pts or 1 subj. passed in 3 pts and at least 1 subj. passed in 2 pts. Subjs. to be taken from at least 4 different groups, incl. compulsory lang. group. Each subj. is 1 unit (see Handbook for full particulars). BA. hon. incl. in undergrad. course. Psychol. postgrad. hon. only.

BSc—28 units incl. 8 from 1st-yr. subjs., 8 from 2nd-yr. subjs., 6 from 3rd-yr. subjs. (all 3rd-yr. subjs. in one group). Remaining 6 from any subjs. but may not incl. more than 3 1st-yr. subjs. A 'subj.' is usually only one section of a discipline (e.g. phys. III is subdivided into 3 subjs.). Choice of subjs. is restricted. BSc. for prospective teachers is slightly different. BSc. hon. maths incl. hon. work in 1st 3 yrs. of course, other hon. in 4th yr. only.

BA. hon. may be taken in classics, econ., Engl.,

French, geog., German, hist., Latin, maths, music, philos., pol. sci., psychol.

BSc hons. may be taken in bacteriol., biochem., bot., chem., entomol., geol., maths, metall., parasitol., phys., psychol., psychol., zool.

BCom hons. may be taken in accty., econ. stats., geog., hist., pol. sci., psychol., pub. admin.

B Econ hons. may be taken in accty., econ., econ. stats., geog., hist., pol. sci., pub. admin.

**HIGHER DIPLOMAS** Open to grads BEd, BD Open to bachelors of 2 yrs' standing of this or other approved univs. MA, MCom, MEcon, MSc, MEd, MScApp, LL.M., MArch, MEd, MSt, MTh, MEngSc, MSocSt., of 3 yrs' standing. MScFor, ME, MVSc, MAgSc, MD, of 4 yrs' standing. DDSc, of 5 yrs' standing. DAgSc, DSc, DD, DVSc, DScFor, of 7 yrs' standing. DLitt, DEcon, DE. Open to masters of 3 yrs' standing. DE, of 5 yrs' standing. LL.D. Standing required before admission to the PhD course varies according to fac. in which prior degree taken. PhD can be awarded in all facs. Master's degrees and PhD degrees may be taken pt.-time. These higher degrees are obtained by exam and/or thesis.

**HONORARY DEGREES.** All first and higher degrees may be awarded as hon. degrees.

**EVENING AND EXTERNAL STUDENTS** In the courses available to them, evg. and external students are permitted to spread their studies over a longer period than day students and pay a proportionate amount of fees each yr. Degrees available to ext. students incl. BA, BCom, BEcon, LL.B., BEd, MA, MCom, MEcon, LL.M., MEd. Degrees available to evg. students incl. BA, BCom, BEcon, LL.B., BEd, MEd. Students for higher degrees must have completed honours course or equivalent (normally as internal students). The first 1 yr. of the BE course may be completed by pt.-time study. External enrolments are accepted from students resident in Q'ld, the Northern Territory and the Territory of Papua & New Guinea, holders of Colombo Plan Australian correspondence scholships in S-E Asia; 25 other appor. students from S-E Asia.

**DIPLOMAS** Comm. (on unit basis, approx. 3 yrs.); journalism, approx. 4 yrs.; physiotherapy, occupational therapy, phys. educ., soc. studies, speech therapy, 3 yrs.; pub. admin., 2 to 3 yrs.; div., 2 yrs.; educn., educnl. psychol., extension educn. (dept. of agric.) sugar technol., sugar sci., 1 yr. postgrad.

**CERTIFICATES** (pt.-time, evg. and ext.) educn. (AEd), on subject basis, approx. 3 yrs.; accty. (AAUQ), 3 yrs. plus 2 yrs' experience (provisional cert. awarded after completion of academic requirements); teaching & trg. of sub-normal children, 1 yr. for trained teachers (CTTSC); course in diagnostic testing & remedial teaching (2nd term).

**REFRANCH.** Facilities available in most depts. for postgrad study and res. Postgrad. students may be admitted to attend courses of tuition or to

pursue res. not leading to a qualif. of the univ. Arrangements should be made with hd. of dept. Prelim. enquiries about fees, etc., should be addressed to registrar. Annual res. report containing summary of work on each project is available free on request. Res. grant £490,173 from univ. funds plus outside sources.

The univ. has a mod. punch-card installation and a GE 225 computer which is available at sp. times for res. purposes. Two electron microscopes (Elmiskop I and Akashi Transscope) are used for teaching and res.

**STUDY LEAVE** Leave for 12 mos. on full pay may be granted after 3 yrs' service (readers and above) or 6 yrs' service (sr. lectrs. and lectrs.). An allowance based on number of dependants may be made.

**FIRST DEGREE** dent. engin., indust. chem., med., vet. sci., £A144 p.a.; agric., appl. geol., archit., educn., for., pharm., physiotherapy, sci., surv. (final hons. arts, comm., econ., sci., soc. studies), £A120 p.a.; stat., comm., econ., law, soc. studies, £A105 p.a.; div., £A75 p.a.

**ACADEMIC YEAR.** March to Nov., 3 terms of 12, 9, 9 wks.

**ADULT EDUCATION** Inst. of Mod. Langs. organizes courses and conducts exams in mod. foreign langs. for persons of any age not served by sec. schs. or univ. Evg. classes at elem., inter., advanced and higher advanced levels in 14 langs. conducted by tutors apptd. by the univ. No previous knowledge of lang. to be studied required. Advanced courses reach standard of approx. univ. st. pub. exam.

**VACATION COURSES.** Phys. educn. for teachers; lectures in certain subjs. provided for external students. Both during Aug. vac.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS** Open scholships (for Q'ld residents), Commonwealth scholships (see p. 13) and fellowships to those bonded to serve govt. or other employer.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Commonwealth postgraduate awards (see p. 13), Baillies Res. scholsh., Fred Z. Eager postgrad. fellowship in vet. sci., I.C.I.A.N.Z. res. fellowship, Zinc Corp. scholsh.

**GRADUATES' ASSOCIATIONS.** Men grads' assocn.: sec., H. W. O'Don, 106 Leura St., Elkhin. Women grads' assocn.: sec., Miss Y. M. Hestey, 17 Paradise St., Highgate Hill.

**STUDENT RESIDENCES.** Men's colls.: Cromwell Coll., Wilcott St., St. Lucia (tel. 7-1151), £A7 p.w., 104 students; Emmanuel Coll., Upland Rd., St. Lucia (tel. 7-1151), £A6 p.w., 175; King's Coll., Upland Rd., St. Lucia (tel. 7-1151), £A6:10s. p.w., 166; St. John's Coll., College Rd., St. Lucia (tel. 7-5730), £A6:10s. p.w., 110; St. Leo's Coll., College Rd., St. Lucia (tel. 7-5730), £A5:10s. p.w., 73; Union Coll., Wickham Tce., Brisbane (tel. 2-4992), £A6 p.w., 110. Women's colls.: Duchesne Coll., College Rd., St. Lucia (tel. 7-6212), £A6:10s. p.w.,

57, Women's Coll., College Rd., St. Lucia (tel 7-1171), £A6 16s. p.w., 164

**UNIVERSITY MILITARY AND AIR FORMATIONS** Q'ld Univ Regiment founded in 1948. Primarily Officer and NCO trg unit. Q'ld Univ Squadron founded in Nov 1950. Five flights, tech., med., equip., works and admin. Cadets allocated according to faculty.

**STUDENT COUNSELLOR** Educational and personal counselling service provided by staff of 2 student counsellors. Accommodation officer inspects lodgings and aids students in obtaining living accomm.

**STUDENT HEALTH SERVICE** Half-time med officer-in-charge available for free consultation by appt., free specialist advice and pathological tests; visiting consultant psychiatrist, close liaison with student counsellors. Other functions incl anti-TB campaign, vaccination service for all students, promotion of health surveys using med student assistance.

**STUDENT LOAN ASSISTANCE SCHEME** Limited assistance is given by univ to able students suffering financial disability, by granting small loans for purchase of books and apparatus and for living expenses, or permission to defer payment of fees.

**UNIVERSITY UNION** Administered by students, provides refectory and common room facilities, controls union bldg. (opened 1961) by agreement with senate, established Union Coll. in 1945. Organises social functions mostly during orientation and common periods, and other extra-curricular activities; publishes newspaper and other student publications. Financed entirely by membership subs (compulsory for internal students). Permanent staff comprises sec., treasurer and exec. officer, refectory supervisor and shop manager.

**STUDENTS' SPORTS UNIONS** Active sports unions provide for all major sporting activities

and incl 24 men's clubs and 17 women's clubs. Extensive grounds with pavilions are at the service of the sports unions.

**PUBLICATIONS** Official—*Calendar*, £A1, postage 1s 2d, fac. *Handbook*, 3s.—4s., postage 8d., *Matriculation Manual*, 4s., postage 8d., *Music Exam Manual*, 2s., postage 8d., *Australian Journal of Pol and Hist*, £A1, 1s p.a. (2 issues), postage 4s 4d outside British Commonwealth, *Slow Learning Child*, 15s p.a. (3 issues); *Law Journal*, 7s 6d p.a. (1 issue), *Gazette* (academic news), 3d per copy (3 p.a.), fac and dept *Papers in series*; *Occupat Surveys* No 1, *Deal in Q'ld* (1960, 3s.); No 2, *Vet sci. in Q'ld* (1962, 4s.), *John Murtagh Macrossan Lectures*, *John Thomson Lectures*, *English, Scottish and Australian Bank Ltd Res Lectures*; *The Univ. and its Courses* (entrance requirements, courses of study and vocational opportunities); *Guide to the Library*; *Statistics*, *Exam. Papers*, 6d. per copy loose, 2s 6d.—4s. in booklet form covering 10 yrs. Student—Students' Union *Semper Parat*, free fortnightly newspaper, *Whacks* (student songs and humour), 2s 6d (annual), *Gabbaroo* (literary), 4s. (irregular), *Orientation Handbook*, free (annual). Facs. and socs: *Trophine* (med fac), free (annual), *E.U.S. Journal* (engin fac), free (annual); *Toughie* (dent fac), 3s (annual), *Apogee* (vet sci fac), annual, *Symbion* (agric. sci fac), free (annual), *Makoo* (Engl soc), 1s per copy (4 p.a.)

**UNIVERSITY BOOKSHOP** Under univ admin. Specialises in students' text-books, apparatus, etc.

**UNIVERSITY OF QUEENSLAND PRESS** Established in 1948. Publishes official publications, text-books, lab manuals and works of cultural and scholarly interest as approved by the publishers. cttee, and maintains the univ bookshop for sale of text-books, stationery, apparatus and other student requisites.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS** Pub appeal, £A162,900 for construction of Great Hall. (Total value of all benefactions received, £A287,954)

**MAJOR BUILDING DEVELOPMENTS** Bldgs completed: sch. of art; extension to chem bldg., biochem. bldg.; St Leo's Coll; extension to Women's Coll; biol scis. (accomm. for bot and entomol. depts.), extension to bookshop, computer centre; high voltage lab annex. *Approaching completion* engin. admin. bldg.

**NEW DEPARTMENTS AND CHAIRS** Dept of accountancy, chair of biochem.

**RETIREMENTS** Prof W M Kyle (philos.)

**RESIGNATIONS** R T. Hinkley (electr engin), due to ill health; A W Steenbeck (med.), apptd to N.S.W.

**DEATHS** P L Adams (lectr in mining and metall engin), Prof H R. Anderson (prof of pub law, 1960-61)

**HONORARY DEGREES** LL.D.—Rt. Hon. R G Menzies, prime minister of Australia, R B Madgwick, vice-chancellor, N.E.

AUSTRALIA

## Statistics

## STUDENT NUMBERS, April 1962 \*

	Full-Time	Part-Time Internal ‡	Part-Time External ¶
Men	3303	2518	2041
Women	1075	1086	508
Total	4378	3604	2549

Distribution by Faculties Agric., 260, archit., 199, arts, 2467, comm. & econ., 1367, dent., 249, educ., 1857, engin., 645, law, 273, med., 1045, phys. educ., 63, sci., 1785, vet. sci., 302  
Total 10,531

Included in the figures above are:—

Higher degree students, 388

New admissions, 2873

Students in New Guinea, 292

Students from other countries, 537. (Countries from which largest numbers came: Fed. of Malaya, 167, Hong Kong, 65, Singapore, 50, N.Z., 48, Fiji, 36, Borneo, 34; Ceylon, 31, Indonesia, 23)

\* Includes students at Univ. Coll. of Townsville.

‡ Includes agric., 36; archit., 111, arts, 1078, comm. & econ., 537, dent., 10; educ., 761, engin., 82, law, 250; med., 24, phys. educ., 63, sci., 686, vet. sci., 27. Total, 3604

¶ Includes agric., 21, archit., 816, comm. & econ., 557, dent., 2, educ., 979, engin., 5, law, 60, sci., 100 of sci., 6. Total 2549

DEGREES AWARDED (1961). Agric. BAgrSc 31; MAgrSc, 3, BScFor, 9; MScFor, 1. Archit. BArch, 2; BArch hon., 4. Arts. BA 117, BA hon., 17, BD, 1. Comm. & econ. BCom, 51, BEcon, 22. Dent. BDS, 38. Educ. BEd, 14, MEd, 2. Engin. BE, 66. EE hon., 30, BSuiv, 4; MEngSc, 5. Law LLB, 22. Med. MB BS, 60, MB BS hon., 3. MS, 1. Sci. BSc, 136; BSc hon., 3; BScApp (Geol), 4, BScApp (IndChem), 1, BScApp (Physio), 1; MSc, 9, BScApp (Geol) hon., 2; BScApp (IndChem) hon., 4. Vet. sci. BVSc, 17; BVSc hon., 4; MVSc, 3, PhD (all facs) 8. Total number of first degrees awarded, 648

DIPLOMAS AWARDED (1961) DipSugSc, 2; DipSugTech, 3; DipEd, 57; DipCom, 27; DipMus, 1; DipPhy, 20; DipDiv, 4; DipDoc. Thy, 2, DipSocSt, 1, DipPubAd, 7, DipPhys. Ed, 15

CERTIFICATES AWARDED (1961) Educ. (AEd) 96, socy (AAUQ), 53; (AAUQ prov.), 43. teaching & trg. of subnormal children (CTTSC) 10.

# UNIVERSITY OF SYDNEY\*

Founded 1850

Postal Address: Sydney, New South Wales, Australia

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Telephone 68 0522

VISITOR—H E. THE GOVERNOR OF NEW SOUTH WALES

CHANCELLOR—Lt-Col Sir CHARLES B. BLACKBURN, KCMG, OBE, BA *Adel*, Hon DSc N.S.W.,  
Tas & Qld., Hon DLitt N.E., Hon LLD *Melb*, MD ChM, FRCP, Hon FRCPEd, FRACP

DEPUTY-CHANCELLOR—Major-General I. N. DOUGHERTY, CBE, DSO, ED, BEC

VICE-CHANCELLOR AND PRINCIPAL—EMERITUS Professor S. H. ROBERTS, CMG, MA LittD *Melb*,  
DSc(Econ) *Leid*, Hon LLD *Brist*, Bt Col. & McG, Hon DCL *Durb*, Hon DLitt N.E.

DEPUTY VICE-CHANCELLOR—EMERITUS Professor A. G. MITCHELL, PhD *Leid*, MA

ASSISTANT PRINCIPAL—W. H. MAZE, MSc (on leave)

REGISTRAR—MARGARET A. TELFER, OBE, BA DipEd

LIBRARIAN—

## TEACHING STAFF

[†=Part-Time]

**Agriculture**, see also Animal Husb. and  
Vet. Sci.

McMillan, J. R. A., MS Corn., DScAgr Prof.  
Campbell, K. O., AM PhD *Chic*, MPA *Harv*,  
BScAgr (Agric. Econ.) Res Prof

Watson, I. A., PhD *Mann*  
(Agric. Bot. Plant Breeding) Prof

Collis-George, N., PhD *Cambr*, MSc *Mann*  
(on leave) (Soil Sci.) Prof

Vincent, J. M., DipBact *Leid*, DScAgr  
(Agric. Microbiol.) Assoc. Prof.

White, N. H., DSc *Tas*, MSc  
(Plant Pathol.) Assoc. Prof

Tehan, Y. T., DSc *Paris*  
(Agric. Microbiol.) Laureate Macleay Sr.  
Lectr.

Baker, E. P., PhD *Calif*, BScAgr  
(Genetics & Plant Breeding) St. Lectr.

Jacobson, S., PhD MSc  
(Agric. Chem.) St. Lectr.

Crofts, F. C., MS *Oregon*, BScAgr  
(Agron.) Sr. Lectr.

Griffin, D. M., MA PhD *Cambr*  
(Plant Pathol.) St. Lectr.

Bauer, H. H., PhD MSc  
(Agric. Chem.) Sr. Lectr.

Anderson, R. H., BScAgr  
(For.) † Lectr.

Jackson, D. L., BScAgr  
(Agric. Bot.) Lectr.

Bunt, J. S., PhD BScAgr  
(Microbiol.) Lectr.

Derry, B. G., PhD *Aberin*, BScAgr  
(Soil Sci.) Lectr.

Polish, R. M., BScAgr  
(Agric. Econ.) Lectr.

Balsam, L. N., BSc *Qld*.  
(Biometrical Methods) Lectr.

Carter, O. G., PhD MS *Corn*, BScAgr  
(Agron.) Lectr.

McPhillips, J., PhD BScAgr  
Res. Officer

North West Wheat Res. Inst.,  
Narrabri, N.S.W.

Jenkins, H. V., BScAgr  
Din

Fawcett, R. G., BAgSc *Adel*.  
Agronomist

Philpotts, Helen R., MScAgr  
Agrostologist

Dereen, N. F., DipAgrSc *Bnd*  
Plant Breeder

**Anatomy**

Macintosh, N. W. G., MB BS DipAnat  
Chairs Prof.

Gabriel, A. C., DDSce  
(Topographical A.) Assoc. Prof

Perritt, J. W.  
Se. Lectr.

Froedman, L., PhD BSc *Cape T*  
Se. Lectr.

Munro, R. R., MB BS, FRCSed  
Sr. Lectr.

Fuller, K. M., MB BS, FRCS  
Se. Lectr.

**Animal Husbandry**

Robinson, T. J., PhD *Cambr*, MSc(Agric)  
W. Anst. Prof

Geddes, H. J., MAgSc N.Z.  
Garland Sr. Lectr., Dir. of Animal  
Husb. Farms

Whittlestons, W. G., DSc N.Z.  
(Dairy Husb.) Reader

McNary, H. W., PhD MS BSA *Pariss*  
(Poultry Husb.) Dm.

Walker, D. M., MSc *Leid*, PhD BSc *R'dg*  
(A. Nutr.) Reader

\* Member of the Association of Universities of the British Commonwealth



Barker, J. F. S., BAgSci Q'ld, PhD  
(A. Genetics) Sr Lectr  
Ryan, R. K., MVSoc (A. Management) Lectr  
Wardrop, I. D., PhD MScAgr Metb. Lectr

### Anthropology

Geddes, W. R., MA N.Z., PhD Lond  
(Soc. A) Prof  
Hogbin, H. I. P., PhD Lond, MA Reader  
Capell, A., PhD Lond, MA  
(Oceanic Langs) Reader  
Neggitt, M. J., MA PhD (on leave) Sr Lectr  
Jayawardena, C., BA PhD Lond, BA Ceyl Lectr  
Swift, M. G., PhD BSc(Econ) Lond Lectr  
Wright, R. V. S., BA Camb Lectr

### Archaeology

(Middle Eastern A) Hall Prof.  
Birmingham, Mrs Jean M.,  
MA St Aust. & Lond (on leave) Sr Lectr  
Cambitoglou, A., BA Thessalonika, MA Manc.,  
DPhil Oxon, PhD Lond St. Lectr  
Megaw, J. V. S., MA Edu Lectr

### Architecture

Ashworth, H. I., OBE, MA BArch Manc.,  
FRIBA, FRATA Prof  
Cowan, H. J., PhD Sheff, MSc Manc.,  
MIEAust (Archit. Sci.) Prof  
Winston, D., BArch Leu., AM Haux.,  
FRIBA (Town & Country Planning) Prof  
Baldwinson, A. N., FRATA Sr Lectr  
Molnar, G., DipIngArch Bud. Sr Lectr  
Meyer, A. R., BArch Sr Lectr  
Collard, M., BCE BArch Metb., FRIBA,  
FRAIA Sr Lectr  
Woffenden, H. G., MA Lond. Sr Lectr  
Boileau, I. E., MA Camb., PhD Manc.  
(Town & Country Planning) Sr Lectr  
Ross, L., (Hist. of Sculpture & Painting) Lectr  
Trevor-Jones, E., BArch Lectr  
Clarke, J. H., BSc N.Z. (Archit. Sci.) Lectr  
Bunlet, R. C., MA Birm.  
(Town & Country Planning) Lectr  
Toon, J. G. (Town & Country Planning) Lectr  
Dug, G. D., BE BArch N.Z.,  
MTech N.S.W. (Archit. Sci.) Lectr  
Thorne, R. H., BArch Lectr  
Davis, B. E., BArch Lectr

### Biochemistry

Stull, J. L., PhD Camb., BSc McCaughey Prof  
Hensley, W. J., MD BS, MRACP Sr Lectr  
Pollak, J. K., PhD McG., BSc Sr Lectr  
Kellerman, G. M., MB BS MSc Sr Lectr  
Wehster, H. L., PhD Camb., BSc Sr Lectr  
Done, J., PhD MSc Lond Sr Lectr  
Hunt, A. L., PhD BSc Adel. Lectr  
Dougall, D. K., DPhil Oxon, MSc W. Aust. Lectr  
Wake, R. G., PhD MSc Lectr

### Botany, see also Agric.

Crocker, R. L., DSc Adel Prof  
Mercey, F. V., PhD Camb., BSc Adel,  
(Plant Physiol) Assoc. Prof.  
Smith-White, S., DScAgr, FAA Reader  
Newman, I. V., PhD Lond, MSc, FLS Sr Lectr  
Carolin, R. C., BSc Lond, PhD Sr Lectr  
Martin, A. R. IL, MA Camb., PhD Lond Lectr  
Dennis, G. K., PhD Lond, BSc Manc. Lectr  
Webster, Jeanie A., BSc Sr Tutor

### Chemistry

Le Fèvre, R. J. W., DSc PhD Lond,  
FRIC, FRSc, FRACI, FAA Prof, Hd of Sch  
Shoppee, C. W., DPhil Baile, DSc  
PhD Lond, FRIC, FRSc, FRACI,  
FAA (on leave) (Org. C) Prof  
Alexander, A. E., BSc R'dg., MA PhD  
ScD Camb., FRACI, FAA (Phys. C) Prof  
Green, R. A. W., DSc N.Z., FRIC,  
FRACI (Inorg. C.) Assoc. Prof  
Lawn, F., PhD Manc., BSc Reader  
Iredale, T., DSc Lond., BSc, FRIC, FRACI  
Ritchie, E., DSc, FRACI Reader  
Lyons, L. E., PhD Lond, BA MSc Reader  
Booe, J. J., MSc DipEd Q'ld Sr Lectr  
Rosa, I. G., PhD Lond, MSc Sr Lectr  
Gibson, N. A., MSc PhD Sr Lectr  
Freeman, H. C., MSc PhD Sr Lectr  
Parks, A. G., DPhil Nat. Dr. Inbal  
MagChem Techn. Tutor, FRACI  
Taylor, W. C., PhD Manc., MSc (on leave) Sr Lectr  
Hurler, A. J., MSc DipEd Sr Lectr  
Holland, H. G., PhD Camb., MSc Lectr  
Stevenson, Brenda J., MSc N.S.W. Lectr  
Sullivan, E. P. A., PhD MSc Lectr  
Robertson, A. V., MSc Metb., PhD Lectr  
Aroney, M. J., PhD MSc Lectr  
Armstrong, R., BSc St. Tutor-Demc  
Williams, A. J., MSc Sr Tutor-Demc

### Dentistry, see below

### Divinity, see below

### Economics

Butlin, S. J., MA Lond Camb., BEc Prof.  
Spenn, R. N., MA Oxon.  
(Govt & Pub. Admin) Prof  
Chambers, R. J., BEc (Acctg.) Prof.  
Rutherford, R. S. G., MA Oxon. (E. Stats) Prof  
Edwards, H. R., DPhil Oxon, BA  
(E. Theory) Prof.

### Senior Lecturers

Black, H. D., MSc  
Kewley, T. H., MA DipSocStud  
DipPubAdmin (Govt & Pub. Admin)  
Gates, R. C., MA Oxon., BCom Tas  
Laffer, K. M., BA W. Aust.  
Simpson-Lee, G. A. J., BSc

Ginswick, J., BSc(Econ) *Land* (E Hist)  
 Mayer, H., MA *Math* (Govt. & Pub Admin)  
 Wheelwright, E. L., DFC, MA *Str And*  
 Wilson, J. R., MEd  
 Buckley, K. D., BA *Land* (E Hist)  
 Birch, A., MA *PhD Alanc.* (E Hist)  
 Konega, H. S., AM Col., PhD *Calc* (E Stats)  
 Shaw, A. E., BEc, FASA (Acctg)  
 Dineen, N. T., AM *Havo*, BEc  
 Mills, C. P., LLB BEc (Comm. & Indust Law)

## Lecturers

Kolsen, H. M., BEc  
 Loveday, P., BA (Govt & Pub Admin)  
 Kmenta, J., AM *Stat.*, BEc (E Stats)  
 Westerway, P. B., BEc (Govt. & Pub. Admin)  
 Horner, D. T., BSc(Econ) *Land*  
 Standish, P. E. M., BA BEc (Acctg)  
 Brown, R. S., BEc (Acctg)  
 Conn, N. R., BEc  
 McCarty, J. W., PhD *Comm.*, BCom *Math* (E. Hist)  
 Bell, Coral M., PhD MSc(Econ) *Land*, BA (Govt & Pub. Admin)  
 Aisy, V. E., BA BEc (Econ)

## Education

Connell, W. F., PhD *Land*, MA *III*, MA MEd *Math* (on leave) Prof  
 Horne, G., MA EdB *Abord.*, PhD *Leeds* Sr Lectr  
 Campbell, W. J., PhD *Land*, MA *DipEd NZ* Sr Lectr  
 Wylie, Joyce F., PhD *III*, BA MEd Sr Lectr  
 Miller, T. W. G., DFC, PhD *Birm*, BA Sr Lectr  
 Spearritt, D., MA MEd *Q'ld.*, EdD *Havo* Sr Lectr  
 Neale, Marie D., MA *DipEd NZ*, PhD *Bom.* Sr Lectr  
 Le Maistre, E. H., EdD *Calc.*, MEd  
 SS *Springfield* (Phys E.) Lectr-on-Charge  
 Swain, Majorie O. B., BA (Phys E.) Lectr  
 Debus, R. L., PhD *III*, BA *DipEd* Lectr  
 MacLaine, A. G., PhD *Land*, MA *Tar*, BEc *Math* Lectr  
 Andersen, W. E. C., MA *DipEd* Lectr  
 Turney, C., BA MEd Lectr

## Engineering, see below

## English

Russell, G. H., PhD *Comm.*, MA *NZ* (Early E Lit & Lang.) McCaughey Prof  
 (E. Lat.) Challis Prof  
 Wilkes, G. A., DPhil *Oxon.*, MA *DipEd* (Aust. Lit.) Prof  
 Cross, K. G. W., MA PhD *DipEd Dnd.* (on leave) Sr. Lectr.  
 Rogers, H. L., MA *Oxon.* Sr Lectr  
 Marsh, D. R. C., BA PhD *Natal* Sr Lectr  
 Hastings, Thelma G., MA *Oxon.* & *Syd.* Lectr.  
 Martin, B. K., MLitt *Comm.*, MA *N.Z.* Lectr.  
 Dunlop, R. T., BA *DipEd* Lectr.

Delbridge, A., MA *Land*, BA *DipEd* Lectr  
 Masdment, W. M., BA Lectr  
 Fiench, A. L., MA MLitt *Comm.* Lectr  
 Davison, P. H., MA *Land* Lectr.  
 Gunn, J. S., MA Lectr  
 Little, G. L., BA *N Staffr*, MA *Math* Lectr.  
 Summons, J. D., MA *Math*, BA *W Aust.*  
 PhD *Leumann* Lectr  
 Edwards, P. D., MA *Q'ld.*, PhD *Land* Lectr  
 Talip, J. G., BA *Q'ld* Lectr  
 Burrows, J. F., BA *DipEd* Sr. Tutor  
 Bernard, J. R. L., BA BSc *DipEd* Sr Tutor

## Forestry, see Agric.

## French

Henning, I., DU *Paris*, BA McCaughey Prof.  
 Giesch, K. J., DU *Paris*, BA *DipEd* Sr. Lectr.  
 Radley, L. A. H., BA Lectr  
 Chambers, L. R., MA *DipEd* (on leave) Lectr.  
 Martin, A. A., DU *Paris*, BA *DipEd* Lectr  
 Walker, D. C., DU *Paris*, BA Lectr  
 Davey, Mrs Leath G., L&L *Moutpeller*, BA *DipEd* Sr. Tutor

## Geography

Dury, G. H., MA PhD *Land*, FGS  
 Devesy, P. J., BSc *DipTCP* Sr Lectr.  
 Langford-Smith, T., BA *Math*, MSc *Add.*, PhD *ANU*, BSc Sr Lectr  
 Rutherford, J., PhD *ANU*, BA Sr Lectr  
 Mathieson, R. S., PhD BSc(Econ) *Land*, MA *Wash* Sr Lectr  
 Legon, M. I., BA *DipEd* Lectr  
 Jeans, D. N., BA PhD *Land* Lectr.  
 Tilley, P. D., BA *Birm*, DrPhil *Bonn* Lectr

## Geology and Geophysics

Marshall, C. E., DSc *Birm*, PhD *Durk.*, FGS  
 David Prof of Geol., Howell Lectr.  
 Dulhanty, J. A., DSc Reader  
 Vallance, T. G., PhD BSc Sr Lectr.  
 Glasson, K. R., MSc (on leave) Sr Lectr.  
 Day, A. A., PhD *Comm.*, BSc Sr Lectr.  
 Packham, G. H., PhD BSc Sr Lectr.  
 Phapps, C. V. G., PhD *Tor.*, BSc Lectr  
 Jenkins, T. B. H., PhD BSc *Wales* Lectr  
 Bremigan, D. F., MSc Lectr  
 Vernon, R. H., MSc *N E* Lectr  
 Threshold, L. M., PhD *Wis*, MSc *W Aust.* Lectr  
 Tompkins, D. K., PhD MSc Coal Res. Officer  
 Mahoney, J. A., BSc Curator of Collections

## German

Farrell, R. B., DrPhil *Berl*, MA McCaughey Prof.  
 McGlashan, L. R. P., DrPhil *Mun.*, BA Sr Lectr.  
 Ryan, L. J., DrPhil *Tubingen*, BA Sr Lectr  
 Sedler, A., DrPhil *Zagreb*, MA *W Aust.*, *DipEd* Lectr

**Greek**

- Shipp, G. P., MA Camb, BA DLitt Prof  
 Trowick, A. P., PhD Lond., BA Sr Lectr.  
 Quincey, J. H., MA Oxon. Sr Lectr.  
 Hutchins, W., MA PhD Camb, BA Sr Lectr.

**History**

- Ward, J. M., MA LLB (on leave) Challis Prof  
 McManners, J., MA Oxon, DipTheol Dubl.,  
 FRHist Prof  
 Bramsted, E., PhD Lond., DrPhil Berl Reader  
 Jacobs, Maurice G., MA Sr Lectr.  
 Shaw, A. G. L., MA Oxon., BA MEd. Sr Lectr.  
 Mansfield, B. E., MA Sr Lectr.  
 Evans, D. G., BA Wales & Lond.  
 (on leave) (Anc. H.) Sr Lectr.  
 Jodice, E. A., MA Camb. & N.Z. (Anc. H.) Sr Lectr.  
 MacCallum, D. M., BA Sr Lectr.  
 Cable, K. J., MA Camb. & Syd. Sr Lectr.  
 Stephens, J. F. M. D., MLitt Camb, BA Lectr.  
 Nish, I. H., MA Edu. & Lond., PhD Lond. Lectr.  
 Sinclair, R. K., MA Camb., BA DipEd (Anc. H.) Lectr.  
 Stambrook, F. G., BA Oxon, PhD BSc(Econ) Lond. Lectr.  
 Rose, R. B., MA Manc. Lectr.  
 King, A. Hazel K., DPhil Oxon., MA Lectr.  
 Jack, R. I., MA Glas., PhD Lond. Lectr.  
 Kerr, Jill K., BA Lectr.  
 Mitchell, T. J., BA Adel. Sr. Tutor

**Indonesian and Malayan Studies**

- van Naerssen, F. H., DrPhil&Litt Ley, MA Reader  
 Jones, R. A., BA Lond. Lectr.  
 Remane, H. W., Milin Ley. Lectr.

**Italian**

- Shaw, R. A., MA MEd. Sr. Lectr.-in-Charge  
 Lectr.

**Latin**

- Dunston, A. J., BA R'dg., MA Camb Prof.  
 Nicholls, J. J., MA Camb., BA Sr Lectr.  
 Duhigg, J., MA Camb., BA Sr Lectr.  
 Lucas, I. M., BA Camb. & N.Z. (on leave) Lectr.  
 Begbie, Cynthia M., MA DipEd Lectr.  
 Jocelyn, H. D., MA Camb., BA (on leave) Lectr.

**Law**

- Sharwell, K. O., MA BCL Oxon. Challis Prof.  
 Stone, J., BA DCL Oxon., LL.M. Leeds, SJD Harv.  
 (Internat. L. & Jurisp.) Challis Prof.  
 Benjfield, D. G., DPhil Oxon., LLB Prof.  
 Morison, W. L., DPhil Oxon., BA LLB Prof.  
 Parsons, R. W., BA LLB Prof.  
 Alexandrovicz, C. H., LL.D. Jagellonian  
 (Internat. Legal Orgn.) Assoc. Prof.

- Thomson, D. C., BA LLB W.Aust. (also Hyman Lectr in Indust. L.) Sr Lectr.  
 Tennels, I., DrJur Moskow, DPhil Harv. Lectr.  
 Hadel, Magda Tann, MA MEd (Internat. L. & Jurisp.) Sr Lectr.  
 MacDougall, D. J., JD Chic., LLB MEd

- Roulston, R. P., LL.M. Tor., LLB Sr. Lectr.  
 Lane, P. H., BA LLB Sr. Lectr.  
 Campbell, End M., PhD Duke, LLB BSc Tor. Sr. Lectr.  
 Whitmore, H., LL.M. Yale, LLB Lectr.  
 Barracough, F. E., MA LLB (Lunney)  
 Hutley, F. C., BA LLB (Successn. & Admiralty)  
 Tease, R. C., QC, MA LLB (Legal Ethics) Perry Lectr.  
 Rath, A. F., QC, BA LLB (Pleading) Challis Lectr.  
 Selby, D. M., QC, BA LLB (Divorce & Domestic Relations) Challis Lectr.  
 Riley, B. B., QC (Bankruptcy) Challis Lectr.  
 Badham, L. C., QC (Evidence) Challis Lectr.  
 Hope, R. M., QC, LLB (Property) Lectr.  
 Needham, G. D., BA LLB (Const. L.) Lectr.  
 Tebbutt, H. W., BA LLB (Conveyancing) Challis Lectr.  
 St. John, E. H., QC, BA LLB (Legal Interp.) Challis Lectr.  
 Conacher, R. D., LLB (Equity Proceed.) Challis Lectr.  
 Mason, A. F., BA LLB (Equity) Challis Lectr.  
 Street, L. W., LLB (Proceed.) Challis Lectr.

**Mathematical Statistics**

- Lancaster, H. O., BA PhD MB BS, FAA Prof.  
 Mulhall, H., PhD Camb., BSc Sr. Lectr.  
 Bofinger, V. J., MSc DipEd Lectr.

**Mathematics**

- Ream, T. G., ScD Camb., FRS, FAA (Pure M.) Prof.  
 Bullen, K. E., ScD PhD Camb., MA N.Z. & MEd., BSc N.Z., FRS, FAA (Appl. M.) Prof.  
 Smith-White, W. B., MA Camb., BSc (Pure M., Analysis) Assoc. Prof.  
 Wall, G. E., PhD Camb., BSc Adel. (Pure M.) Reader

**Senior Lecturers**

- Fletcher, G. C., PhD BSc Lond. (on leave) (Appl. M.)  
 Williams, J. L., MA Camb., MSc (Pure M.)  
 Kelly, G. M., BA PhD Camb., BSc (on leave) (Pure M.)  
 Buchwald, V. T., PhD MSc Lond., BSc Manc. (Appl. M.)  
 Siasatsis, L., DrMath MagHabil MagScintMath Letovs, DrMath T.H. Stuttgart (Appl. M.)

- Bolt, B. A., PhD MSc DipEd (Appl. M) Lectr.  
 Lecturers  
 Wilson, P. R., BA MSc Melb (Appl. M)  
 Smith, R. J., PhD Tennessee, MSc (Pure M)  
 Mack, J. M., BSc (Pure M)  
 Conlon, S. B., BA Camb., BSc (Pure M)  
 Barnes, D. W., DPhil Oxon., BSc (Pure M)  
 Fackrell, E. D., MSc (Appl. M)  
 Senior Tutor Demonstrators  
 Ritter, M., BSc Q'ld. (Appl. M)  
 Kangaroo, L., MSc (Appl. M)  
 Senior Tutor  
 Hammer, J. A., Dipl E.L.Bud (Pure M)
- Medicine, see below**
- Minng, see Engineering, below**
- Music**  
 Peart, D. R., MA BMus Oxon., FRCM Prof.  
 Harris, S. J. M., BA BMus Oxon. Lectr.  
 Gross, E., MA Abad. Lectr.  
 Spink, I. W. A., MA Bmus, BMus Lond., FTCL Lectr.
- Oriental Studies**  
 Davis, A. R., MA Camb Prof.  
 McKillop, B. C., MA Camb., BA Sr Lectr.  
 Sargent, G. W., BA PhD Camb. Sr Lectr.  
 Liu, W. F., BA Awa, MA Lectr.
- Pharmacology**  
 Thorp, R. H., PhD BSc Lond. Prof.  
 Johnson, E. A., MD ChB Sheff Sr Lectr.  
 Cobban, L. B., BSc Melb, PhD Lectr.
- Pharmacy**  
 Wright, S. E., MSc Q'ld., PhD DipPharm (Pharmaceut. Chem.) Prof.  
 Watson, T. R., MSc NZ, PhD Sr Lectr.  
 O'Reilly, W. J., PhD Calif., BSc Sr Lectr.  
 Anderson, R. A., BSc Adel. Sr Lectr.  
 Large, Dorothy K., BSc DipPharm Lectr.  
 Cosmbe, R. G., MSc NZ Lectr.  
 Thomas, R. E., MSc Lectr.  
 Hawke, J. G., MSc NZ, BSc Adel, PhD (Phys. Chem.) Lectr.
- Philosophy**  
 Stout, A. K., MA Oxon Prof.  
 Meckie, J. L., MA Oxon, BA Chaslin Prof.  
 Walker, Alice R., BA Sr Lectr.  
 Rose, T. A., MA Sr Lectr.  
 Baker, A. J., BPhil Oxon, BA Sr Lectr.  
 McCallum, D. M., MA BPhil Oxon., BA Sr Lectr.  
 Nerlich, G. C., MA Adel, BPhil Oxon Sr Lectr.  
 Rixon, E., BA Lectr.  
 Bonney, W. L., BA BPhil Oxon, MA Tas. Lectr.  
 Stone, D. C., BA Lectr.  
 Gimane, W. J., MA Melb., BPhil Oxon Lectr.  
 Khamara, E. J., BA Lond. Lectr.
- Routley, F. R., MA NZ Lectr.  
 Suchting, W. A., MA PhD Melb., BA Q'ld. Lectr.
- Physics**  
 Messel, H., PhD NZ, BA BSc Qw. Prof., Hd of Sch.  
 Butler, S. T., PhD Burn, DSc ANU, MSc Adel (Theoret. P) Prof.  
 Watson-Munro, C. N., OBE, MSc NZ, FIP (Thermo-nuclear P) Prof.  
 Bennett, J. M., PhD Camb, BSc BE Q'ld. (Electronic Computing) Prof.  
 McCusker, C. B. A., MSc Manc. (High Energy Nuclear P.) Prof.  
 Love, W. H., PhD Camb, BSc. Du., 1st & 2nd yr Courses  
 Makinson, R. E. B., PhD Camb., BSc Reader.  
 Mills, B. Y., DScEng BSc, FAA Reader.  
 Fraser, M., MA DPhil Oxon. Sr Lectr.  
 Rathgeber, H. D., Ding TH Stuttgart Sr Lectr.  
 Guest, P. G., PhD MSc Sr Lectr.  
 Twiss, R. Q., MA Camb, ScD M.I.T. Sr Lectr.  
 Millar, D. D., PhD Dub, BSc St And Sr Lectr.  
 Buckingham, M. J., PhD Lev, MSc Sr Lectr.  
 May, R. M., PhD BSc Sr Lectr.  
 Elliott, D., PhD Adel, MSc Lond, MSE Prae Sr Lectr.  
 Swire, B. E., BSc BE Sr Lectr.  
 Wann, M. M., PhD Burn, MSc Sr Lectr.  
 Wallace, C. S., BSc PhD Lectr.  
 Brennan, M. H., PhD BSc Lectr.  
 Hazard, C., PhD BSc Manc Lectr.  
 Little, A. G., BSc NZSW Lectr.  
 Davis, J., PhD BSc Manc. Lectr.  
 Murdoch, H. S., PhD MSc Lectr.  
 McAdam, W. B., PhD Camb, MSc NZ Lectr.  
 Robinson, L. C., MSc Adel, BSc Lectr.  
 Nicol, Phyllis M., MSc Sr Tutor-Demr.  
 Salter, D. G., BSc Tas. Sr Tutor-Demr.
- Physiology**  
 Bishop, P. O., MB BS (on leave) Prof.  
 Taylor, M. G., PhD Lond., MD BS Adel. Prof.  
 Burke, W., BSc PhD Lond. Sr Lectr.  
 Hayhow, W. R., MB BS (on leave) Sr Lectr.  
 Dunlop, C. W., PhD Adel, MSc Adel. Sr Lectr.  
 Everett, A. V., PhD BSc Lectr.
- Psychology**  
 O'Neil, W. M., MA DipEd McCaughey Prof.  
 Hammes, A. G., MA (Abnormal & Clin. P.) Assoc. Prof.  
 Champson, R. A., MA Iacon, BA Sr Lectr.  
 Sutcliffe, J. P., MA PhD Sr Lectr.  
 Radcliffe, J. A., BA Sr Lectr.  
 Day, R. H., PhD Brit., BSc W Aust. Sr Lectr.  
 Lyle, J. G., MA Melb, PhD Lond Sr Lectr.  
 Rodger, R. S., MA Edin., PhD Belf. Sr Lectr.

Enrie, A. E., MA <i>Canb</i>	Lectr	Sinkovic, B., D <sup>3</sup> VetMed <i>Gasteron</i>	(V. Med.)
Maze, J. R., MA	Lectr.	Rex, M. A. E., BA VetMB <i>Canb</i>	(V. Surg)
Gray, K. C., BA DipEd	Lectr.	Martin, L., PhD BSc	(V. Physiol)
Montmei, Yvonne S., BA <i>Bent</i> , PhD <i>Lead</i>	Lectr	Edwards, M. J., MVSc <i>Lea</i> , BVSc	(Dairy Mod)
Nash, J., PhD BSc <i>Edw</i>	Lectr	Gordon, H. M., BVSc	†(V. Parasitol)
Thomson, R. J., MA DipEd	Lectr	Keep, J. M., BVSc	Supt., V. Hosp.
Campbell, Alison C., MA	(on leave) Lectr.	Hutchins, D. R., BVSc	
Over, R. F., BA PhD	Lectr.		Supt., Rural V. Centre, Camden
Hopca, W., BA	Sr Tutor	Hvne, R. H. J., BVSc	Clin. Instr., Rural V. Centre, Camden

**Semitic Studies**

MacLaurin, E. C. B., MA <i>Canb</i> , BA BD	Lectr
Crown, A. D., MA <i>Leeds</i>	Sr Lectr

**Social Work**

Brennan, T., MA <i>Canb</i>	Dir.
Parker, Norma, MA <i>W. Aust</i> , DipSocSci <i>Wash.</i>	Supervisor of Professional Trg.
Battle, Betty, BS <i>Col</i> , DipPhysEd <i>Melb.</i>	Supervision of Group Work
McLalland, Mary S., AM <i>Chae</i> , BA <i>Q'ld.</i>	DipSocStud (Sec. Case Work) Lectr
Ogilvie, F. Katharine, MBE, BA	(Med. Soc. Work) Lectr
Lawrence, R. J., MA <i>Oxou</i> , BA <i>Adel.</i>	(Soc. Admin.) Lectr
Langlev, Doreen, MBE, BSc DipDiet <i>Melb.</i>	†Lectr
Gutzmer, Margaret E., BA DipSocStud <i>Melb.</i>	(Psychiatric Case Work) Lectr
Nash, J., PhD BSc <i>Edw</i>	Lectr
Beams, F. H., MB BS, MRACP	Lectr.
Barnes, Lesley H., MB BS DPM	Lectr.
Wyatt, W., MB ChB <i>Edw.</i> , DPM <i>Lead.</i>	†Lectr
Scott, G. C., MB BS DPH DTM&H	†Lectr.

**Veterinary Science**

Carne, H. R., DVS	(V. Pathol. & Bacteriol.) Hughes Prof.
Emmens, C. W., DSc PhD <i>Lead</i> , FAA	(V. Physiol.) Prof.
McFarlane, D., BSc <i>Glas.</i>	(V. Med.) Prof.
Lassen, L. H., MS <i>Colorado</i> , PhD BVSc	(V. Surg.) Assoc. Prof.
White, I. G., PhD BSc	(V. Physiol.) Reader
	Senior Lecturers
Webb, R. M., BVSc	(V. Anat.)
Bian, R. V. S., MSc <i>Adel.</i> , BVSc	(V. Pathol. & Bacteriol.)
Steel, J. D., BVSc	(V. Med.)
Loonin, L. N., DVM MS <i>Mich.</i>	(V. Pathol. & Bacteriol.)
McClure, T. J., BVSc	(V. Med.)
Haughy, K. G., BVSc	(V. Med.)
Johnston, K. G., DipBact <i>Lead</i> , BVSc	Sr. Clin. V. Pathologist
	Lecturers
Osborne, Virginia E., BVSc	(V. Anat.)
Lawrence, W. E., BVSc	(V. Pathol. & Bacteriol.)
Walica, R. G., PhD BVSc	(V. Physiol.)
Wright, A., PhD BSc <i>Lea</i>	(V. Anat.)

**Zoology**

Burch, L. C., DSc <i>Adel.</i> , BAgrSc <i>Melb.</i>	Challis Prof.
Woodhill, A. R., DScAgr	(Entomol.) McCaughy Reader
Stephenson, N. G., PhD <i>Lead</i> , MSc <i>N.Z.</i>	Sr. Lectr
Dawbin, W. H. I., MSc <i>N.Z.</i>	Sr. Lectr
Lamb, K. P., PhD <i>Canb</i> , MSc <i>N.Z.</i>	Sr. Lectr
Anderson, D. T., PhD BSc <i>Lead</i>	Sr. Lectr
Salter, K. E. W., BSc	(Entomol.) Lectr
Simons, J. R., PhD <i>Lead</i> , MSc	Lectr
Roeck, A. A., D <sup>3</sup> ResNat <i>Bono</i>	Lectr
Reames, A. H., AB <i>Stan.</i> , PhD <i>Indiana</i>	Lectr
Meyer, G. R., PhD <i>Lead</i> , BA MEd BSc	Lectr.
Minsh, M. P., MA PhD <i>Calif.</i> , AB <i>Forno</i>	Lectr
Stanbury, P. J. T., BSc <i>Adel</i>	Lectr
Jamason, B. G. M., PhD BSc <i>Bent</i>	Sr. Tutor

**DENTISTRY**

Arnot, A. J., DDS, FDSRCS, FADC	McCaughy Prof.
Jolly, M., MDS	Sr. Lectr.

**Ceramics**

Grainger, W. A., MDS	†Lectr
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**Dental Anatomy**

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**Dental Histology**

Giffin, C. J., DDS	Sr. Lectr.
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**Dental Jurisprudence**

Ash, W. P., BA LLB	†Lectr
--------------------	--------

**Dental Materia Medica and Therapeutics**

Carne, L. G., DDS	†Lectr.
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**Dental Pathology**

Campton, D. A., PhD MDS	Assoc. Prof.
-------------------------	--------------

**Operative Dentistry**

Lyell, J. S., MDS, FADC	Prof
Bull, A. W., DDS <i>Northwestern</i> , BDS	Sr. Lectr.
Wing, G., DDS	(on leave) Lectr

Barkes, B. C. W., MDS, FDSRCS  
Hewitt, G. H., BDS, FDSRCS

Lectr  
Lectr.

#### Orthodontics

Henry, R. G., MDS

†Lectr.

#### Pedodontics

Hunrichsen, C. F. L., MDS

Lectr.

#### Periodontics

Levine, S., MDS

†Lectr.

#### Preventive Dentistry

Martin, N. D., MDS, FACD

Prof.

Godfrey, K., MDS

Sr. Lectr.

Bernard, P. D., MPH Mich., BDS

Sr. Lectr.

#### Prosthodontics

Graham, C. H., DDS *Northwestern*, MDS

(Prosth. D.) Prof.

Earnshaw, R. G., PhD *Mawo*, MDS *Q'ld.*

Sr. Lectr.

Bevan, E. M., MDS

Lectr.

Murphy, Barbara I., MDS

Lectr.

Seeman, Sybille K., MDS

Lectr.

Gillings, B. R. D., MS *Roch.*, BDS

Lectr.

### DIVINITY

#### Ecclesiastical History

Arnot, Rev. F. R., MA *Oxon.*, ThD *A.C.T.*

†Hd. of Dept.

#### New Testament Language and Literature

Brown, Rev. J. H., MA BD PhD *Glas.*

†Hd. of Dept.

#### Old Testament Language and Literature

MacLaurin, E. C. B., MA *Cambr.*, BA BD

†Hd. of Dept.

#### Philosophical and Historical Theology

Hayward, Rev. S. R. B., MA *Cambr.*

†Hd. of Dept.

### ENGINEERING

#### Aeronautical Engineering

Witnick, W. H., MA *Cambr.*, PhD, FRAeS,

F.A.A. Lawrence Hargrave Prof.

Bird, G. A., BSc ME Sr. Lectr.

Popperton, E. D., DIC, MSc(Eng) *Leam.*

Sr. Lectr.

Davies, G. A. O., BEng *Leam.*

Lectr.

#### Chemical Engineering

Hunter, T. G., DSc PhD *Birm.*, FRACI Prof.

Wood, T., MSc *Birm.*, PhD Sr. Lectr.

Prance, R. G. H., BSc BE(Chem) *N.Z.*,  
PhD

Sr. Lectr.

McManamey, W. J., PhD ME

Sr. Lectr.

Parker, H. H. S., BSc

Lectr.

Elms, J. N., BE

Lectr.

Coillet, D. W., MSc *Melb.*

Lectr.

Glastonbury, J. R., MEngSc

Lectr.

#### Civil Engineering

Roderick, J. W., MA *Cambr.*, MSc PhD *Bost.*

MIEAust, F.A.A. Chas. Prof.

Aston, R. L., MSc PhD *Cambr.*, BSc BE,

MIEAust

(Geodesy & Surveying) Assoc. Prof.

Campbell-Allen, D., MA *Cambr.*, MIEAust

(Concrete Technol.) Assoc. Prof.

Potter, O. S., BSc BE

Sr. Lectr.

Davis, E. H., BSc(Eng) *Leam.*

Sr. Lectr.

Watkins, R. D., PhD *Aberd.*, BE *Q'ld.*

Sr. Lectr.

Rawlings, B., BSc MEngSc

Sr. Lectr.

Harrison, H. B., MEngSc BSc

Sr. Lectr.

Butcher, W. S., MS *Calif.*, BE

Sr. Lectr.

Hawkins, C. A., BE, MIEAust (Road E.)

†Lectr.

Stewardson, P. H., BSc *Durk.*

Lectr.

Dunlop, N. M., BE

†Lectr.

(Water Supply & Sewerage) †Lectr.

Vickery, B. J., MEngSc

Lectr.

Tishaur, N. S., BSc MEngSc

Lectr.

Jones, P. B., MEngSc

Lectr.

Hawkins, N. M., PhD MS *Ill.*, BSc BE

Lectr.

Bowie, I. G., MSc *Mawo*

Lectr.

Griffiths, D. M., PhD *Wales*, BE

Lectr.

#### Electrical Engineering

Christiansen, W. N., DSc *Melb.*, FIP,

F.A.A. Russell Prof.

Aitchison, R. E., MSc, FIP, MIEAust

(Communication E.) Assoc. Prof.

Messersmith, H. K., MEngSc *Melb.*, PhD Reader

Doe, A. G., BSc BE Sr. Lectr.

Robinson, R. B., BSc BE (on leave) Sr. Lectr.

Murray, C. T., BSc BE (Electronics) Sr. Lectr.

McKernan, A. P., BE, MIEAust Sr. Lectr.

Eynns, P. J., BSc BE Sr. Lectr.

George, D. W., BSc BE Sr. Lectr.

Wilson, T., BSc(Eng) *Leam.* Sr. Lectr.

Smith, D. H., PhD *Mawo*, MSc *N.Z.* Sr. Lectr.

Goddard, B. R., BSc BE Sr. Lectr.

Docherty, I. S., BSc Lectr.

Wong, D. G., MEngSc BSc Lectr.

Pike, D. B., BSc BE Lectr.

Taylor, G. W., PhD *Leam.*, BE *W.Aust.* Lectr.

Munro, G. H., DSc *N.Z.*, FIP Hon. Lectr.

#### Mechanical Engineering

Fink, P. T., BE, FRAeS

Russell Prof.

Nelson, H. M., BSc *Belf.*

Assoc. Prof.

Hart, K. R. M., BSc ME

Sr. Lectr.

Vonwiller, G. B., BSc BE

Sr. Lectr.

(E. Des. & Drawing) Sr. Lectr.

Axelson, D. R., Dupling *Vicmas*, MEngSc

(on leave) Sr. Lectr.

Peterson, V. R., BA BSc BE BEc Sr. Lectr.

Shetwood, A. A., BSc(Eng) <i>Laund</i>	Sr. Lectr	Stening, M J L, VD, MD BS, FRCS, FRACS	†Clin. Lectr
Tanner, R L., PhD <i>Medic</i> , BSc <i>Biol.</i> , MS <i>Calif</i>	Sr. Lectr	Jasper, W. G., MB BS	†Clin. Lectr
Henderson, L. F., MEngSc <i>Meib</i>	Sr. Lectr.	Meares, S. D., MB BS, FRCOG, FRCSEd, FRACS	†Asst Clin Lectr
Boomsma, M., Ing <i>Anst</i> (Mech E Des)	Lectr	Loxton, J. C., MB BS, FRCSEd, FRACS	†Asst Clin Lectr.
Bayley, H. G., MSc <i>Biom</i> , BE	Lectr.	Pfanner, D. W., MB BS, FRCSEd, FRACS	†Asst. Clin. Lectr.
Halliday, R. F., BA BE	Lectr.	Mulvey, Margaret, MB BS	†Tutor
Lutton, R. E., PhD <i>Laund</i> , BE <i>Adel.</i>	Lectr	Knos, J. W., MB BS, FRCSEd, FRACS	†Tutor
Cottrell, B., PhD <i>Comb</i> , BSc(Eng) <i>Laund</i>	Lectr.	Pagett, P. P., MB BS DGO	†Tutor
		Piddis, K. W., MB BS, FRCS, FRACS	†Tutor

**Mining Engineering**

Hargreaves, A. J., BME <i>Mech.</i>	Temp. Sr. Lectr.
...	†Russell Lectr.

**MEDICINE**

(for subjects of first 2 yrs —  
Anat., etc., see above)

**Anaesthetics**

Shen, L. T., MB BS DA	†Lectr., †Tutor
Dwyer, B. E., MB BS, FFARCS	†Clin. Lectr.
Jobson, P. L., MB BS DA	†Clin. Lectr.
Roddick, J. R., MB BS, FRIC, FRACI	†Asst. Clin. Lectr
O'Shea, B. D., MB BS DA	†Asst. Clin. Lectr.
McDonnell, L. E., MB BS, FFARCS	†Asst. Clin. Lectr.
Spears, R. B., MB BS DA	†Tutor
Bowen, Janet M. C., MB BS DA	†Tutor
Hodge, A. H., MB BS DA	†Tutor
Shaw, W. R. M., MB BS DA	†Tutor
Gunner, B. W., MB BS DA	†Tutor
Berry, F. R., MB BS	†Tutor

**Bacteriology**

de Burgh, P. M., MB BS	Bosch Prof.
Chailion, G., MD	Sr. Lectr.
Fenne, S., DPhil <i>Oxon</i> , MD ChB BMedSc <i>N.Z.</i>	Sr. Lectr.
Ellem, K. A. O., PhD <i>Pratt</i> , MB BS BSc(Med)	Sr. Lectr.

**Child Health**

Stapleton, T., MA DM BCh <i>Oxon</i> .	Prof.
Clements, F. W. A., MD BS DTM DPH, FRACP	Sr. Lectr.

**Diseases of Ear, Nose, Throat**

Bulteau, V. G., MB BS DLO, FRACS	†Lectr.
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**Diseases of the Skin**

Perkins, R. B., MB BS BSc, FRACP	†Lectr
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**Embryology, see Histol.****Gynaecology**

Stening, G. G. L., ED, MB BS, FRCSEd, FRCOG, FRACS	†Clin. Lectr.
McGarrahy, K. A., ED, MB BS, FRCOG	†Clin. Lectr.
Moan, A. A., MBE, MB ChM, FRCSEd, FRCOG, FRACS	†Clin. Lectr.

**Histology and Embryology**

Cleland, K. W., MB BS	Bosch Prof.
van Lennep, E. W., NatPhilDrs <i>Utrecht</i>	Sr. Lectr.
Sapaford, C. S., DVSc	Sr. Lectr
Griffin, C. J., DDSc (Dent. H. & E.)	Sr. Lectr.
Sullivan, G. E., MSc <i>N.Z.</i> , PhD	Lectr.
Rae, Mrs. Clive A., PhD <i>N.E.</i> , BSc	Lectr

**Infectious Diseases**

Symington, N. J., MB ChM	†Lectr
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**Medical Ethics**

Hunter, J. G., CMG, MB ChM BSc	†Lectr
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**Medical Jurisprudence**

Percy, C. E., MB ChM	†Lectr.
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**Medicine**

Blackburn, C. R. B., MD BS, FRCP, FRACP	Prof.
Read, J. R., MD BS, MRACP	Sr. Lectr.
Piper, D. W., MB BS, MRACP	Sr. Lectr.
Hickox, J. B., MB BS, MRACP	Sr. Lectr.
McRae, J., PhD <i>Calif</i> , MB BS BSc(Med), MRACP	Sr. Lectr.
Poson, S., MB BS <i>Adel</i> , MRACP	Sr. Lectr.
Fowler, W. K. T., PhD <i>Laund</i> , MSc <i>N.Z.</i>	Biophysicist
Morrow, Sir William, DSO, ED, MB BS, FRCP, FRACP	(Therapeutics) †Lectr.
Harrison, K. S., MB BS DTM, FRACP	(Therapeutics) †Lectr.
Brown, K. S. M., MB ChM	(Hist. of M.) †Lectr.

**†Clinical Lecturers**

Brodzick, I. A., MB BS, FRACP	
Greenaway, T. M., MB ChM, FRCP, FRACP	
Hall, G. V., MB BS, MRACP	
Stapleton, T., MA DM BCh <i>Oxon</i> .	
Morrow, Sir William, DSO, ED, MB BS, FRCP, FRACP	
Spark, T. E. H., MB BS, FRACP	
Sibree, E. W., MD BS	
†Assistant Clinical Lecturers	
Denkin, J. H., MB BS, MRACP	
Epps, R. G., MB BS BSc	
Geddes, B. L., MB BS, MRACP	

Piper, D. W., MB BS, MRACP  
 Selby, G., MB BS, MRACP  
 Stuckey, D. S., MD BS, FRACP  
 Thomas, I. D., MB BS, MRACP  
 Goulston, S. J. M., MC, MB BS, FRACP  
 Harrison, K. S., MB BS DTM, FRACP  
 Corlette, E. L., MBE, MB BS

## †Tutors

Haynes, B. G., MB BS  
 Puftlett, R. D., MB BS, FRACP  
 Curtin, B. A. D., MB BS, MRACP  
 Robertson, T. I., MB BS, MRACP  
 Raftos, J., MB BS, MRACP  
 Stuckey, D. S., MD BS, FRACP  
 Dalton, W. R., MB BS, MRACP  
 Burns, F. H., MB BS, MRACP  
 Harvey, H. P. E., MB BS, MRACP  
 Richards, J. G., MB BS, MRACP  
 Epps, R. G., MB BS BSc  
 Bauer, G. E., MB BS, MRACP  
 Hicins, J. B., MB BS, MRACP  
 Hurt, B. R. M., MB BS, MRACP  
 Greenaway, J. M., MB BS, MRACP  
 Packard, R. S., MB BS, MRACP  
 Wolfenden, W. H., MB BS, MRACP  
 Dowd, B. T., MB BS, MRACP  
 Tink, A. R., MB BS, MRACP  
 Vines, R. H., MB BS, MRACP  
 Bateman, T. P. G., MB BS, MRACP  
 Church, D. T., MB BS, MRACP  
 Mulhearn, R. J., MB BS  
 Selby, T., MB BS, MRACP  
 Skyring, A. P., MB BS, MRACP  
 Lewis, R. G., MB BS, MRACP  
 Reed, C. S. H., MB BS, MRACP  
 Thomas, I. D., MB BS, MRACP  
 Beneche, J., MB BS, MRACP  
 Hennessy, W. B., MB BS, MRACP  
 O'Connell, B. P., MB BS  
 Alstad, K. S., MD ChB BSc DPH Glas  
 Hassall, J. E., MB BS, MRACP  
 Jeffers, J. E., MB BS, MRACP  
 Sands, J. R., MB BS, MRACP  
 Read, F. H., MB BS, MRACP  
 Deskin, J. H., MB BS, MRACP  
 Francis, P. N., MB BS, MRACP

## Newborn, Care of

Stening, S. E. L., DSC, MB BS, FRACP  
 †Lectr.  
 Ishster, Mrs. Clair, MB BS, FRACP  
 †Lectr.  
 Bellmanne, S. P., MB BS, FRACP  
 †Lectr.  
 McDonald, J. D., MB BS, MRACP

## Obstetrics

Mayes, B. T., MVO, MB BS, FRCSed, Prof.  
 FRACS, FRCOG  
 Shearman, R. P., MB BS DGO, Assoc. Prof.  
 Read, B. L., M.D. BS BVSc DTM&H, Sr Lectr.  
 Booth, E. A., MB BS DDR  
 (Radiol. in Obstet.) †Lectr.  
 Heseltine, Mary J., MB BS Med., FRACP  
 (Bacteriol. & Pathol. in Obstet.) †Lectr.

## †Clinical Lecturers

Cunningham, W. D., MB BS, FRCOG  
 Moon, A. A., MBE, MB ChM, FRCSed,  
 FRCOG, FRACS  
 Richardson, K. S., MB BS DGO, FRCOG,  
 FRACS  
 Grant, A. M. B., LM Dab, MB BS, FRCSed  
 †Assistant Clinical Lecturers  
 Jasper, W. G., MB BS  
 Meares, S. D., MB BS, FRCSed, FRCOG,  
 FRACS  
 Syed, R. H., MB BS DGO, MRCOG  
 Drummond, M. T., MB BS  
 Collins, E., MB BS  
 Holman, E. D., MB BS  
 McGarity, K. A., ED, MB BS, FRCOG  
 Mackey, R., MB BS DGO

## †Tutors

Cope, T. I., MD BS, FRCS, FRACS  
 Benson, Lou E., MB BS DGO  
 Cammisa, G. E., MB BS  
 Garrett, W. J., DPhil Oxon, MD BS, FRCSed,  
 FRACS  
 Scheumack, D. R., MB BS  
 Farrar, J. M., MB BS DGO  
 Young, G. N., ED, MB BS, FRACS

## Ophthalmology

Armstrong, K. B., MB BS, FRACS †Lectr.

## Pathology

Magarey, F. R., MD BS Adel, FRACP Prof.  
 Cameron, D. A., PhD MDS  
 (Dental P.) Assoc. Prof.  
 Finckh, E. S., MB BS DCP, MRACP  
 (Exper. P.) Assoc. Prof.  
 Smith, K. V., MB BS Adel, MRACP Sr Lectr.  
 Cox, R. W., DPhil Oxon, MD ChB NZ.  
 Sr Lectr.  
 Gilder, E. Mary, MB BS BSc Lectr.

## Preventive Medicine

Ford, Sir Edward, OBE, MD BS Melb.,  
 DPH Lond., DTM, FRCP, FRACP Prof.  
 Scott, G. C., MB BS DPH DTM&H Lectr.

## †Honorary Lecturers

Park, C. L., MD BCh DPH Melb.  
 Southwood, A. R., CMG, ED, MD MS Adel,  
 FRACP  
 Fryberg, A., MBE, MB BS Melb., DPH DTM  
 Hensell, L., MD BS DPH Lond.  
 George, W. E., MB ChM, FRACP  
 Heydon, G. A. M., MC, DPH DTM&H Camb.,  
 BA MB ChM, FRACP  
 Fairley, Sir Neil Hamilton, KBE, MD DSc  
 Hon. LL.D. Melb., Hon. DSc, FRCP,  
 FRCSed, FRACP, FRS  
 Cruickshank, J. M., CMG, OBE, MD CM  
 DPH McG., DTM Lond., FACP, FACS  
 Wunderly, Sir Harry, MD BS Melb., FRCP,  
 FRACP  
 Backhouse, T. C., MB BS Melb., DPH Oxon.,  
 FRACP



**Psychiatry**

Maddison, D. C., MB BS DPM, MRACP Prof.  
 Duncan, G. M., MB BS BSc Sr Lectr.  
 Grutner, Margaret E., BA DipSocStud  
 Melb (Psychiatric Soc. Work) Lectr.

**Surgery**

Loewenthal, J. I., MS Melb., MB BS, FRCS, FACS, FRACS Prof.  
 Bolliger, A., D.Phil Basle, DSc (Exper. S.) Reader, Res Dir of Gordon Craig Urol. Res. Labs.  
 Milton, G. W., MB BS Adel., FRCS, FRACS Assoc. Prof.  
 Mackenzie, D. C., MB BS, FRCS Sr. Lectr.  
 Hailday, J. P., MB BS, FRCS, FRACS Sr. Lectr.  
 Reeve, T. S., MB BS, FACS Sr. Lectr.  
 Stephens, F. O., MB BS, FRCS Sr. Lectr.  
 Burling, E. V., MBE, MB BS, FRCS, FRACS †Lectr & Tutor to dent. students

**†Clinical Lecturers**

Goulston, E. H., MB BS, FRCS, FRACS  
 Wyndham, N. R., MD MS, FRCS, FRACS  
 McGrath, W. S., MB BS, FRCS, FRACS  
 Findlay, A. P., MB ChM  
 Loewenthal, L. S., MB ChM, FRACS  
 Stuckey, E. S., MB BS, FRACS

**†Assistant Clinical Lecturers**

Lovell, S. H., ED, MB MS, FRACS  
 Malcolm, R. J. W., MB ChM, FRCS, FRACS  
 Johnson, A. S., MB MS, FRACS  
 Cumberland, V. H., MB MS, FRCS, FRACS  
 Fagan, K. J. B., MB MS, FRACS

**†Tutors**

Langley, E. P., MB BS Melb., FRCS  
 Wilson, T. E., MD MS MSc Melb., FACS, FRCS, FRCSed, FRACS, MRACP  
 Alexander, M. S., OBE, MB MS, FRACS  
 Pullen, W. J., MB MS, FRCS, FRACS  
 Spence, J. W., MB BS, FRCS, FRACS  
 Fleming, J. P., MB MS, FRCS, FACS, FRACS

Fowler, N. A., MB BS, FRCS, FRACS  
 Goldie, J. E. D., MB BS, FRCS, FRACS  
 Opie, R. C., MB MS, FRACS  
 Sharp, A. C. R., MB BS, FRCS, FRACS  
 Greenwell, P. H., MB BS, FRCS, FRACS  
 Condon, R. D., MB MS, FRCS, FRACS  
 Keller, W. L. H., MB MS DA, FRACS  
 Jones, K. S., MB BS, FRCSed, FRACS  
 Lalie, M. E., MB BS, FRCS, FRCSed  
 Costa, E. M., MB BS, FRCS, FRACS  
 Hughes, J. D., MB BS, FRCS  
 Schneider, O. H., MB BS, FRCS, FRACS  
 Cohen, D. H., MB MS, FRACS  
 Downing, A. C., MB BS, FRCS, FRCSed  
 Hudson, R. S. B., MB BS, FRCS, FRACS  
 Morgan, B. P., MB BS, FRACS  
 Inglis, M. J., MB BS, FRCS, FRCSed, FRACS  
 Graham, J. W., MB BS, FRCS, FRACS  
 Nash, T. P., MB BS, FRCS, FRACS  
 O'Neill, J. P., MB BS, FRCS, FRACS  
 Cropley, D. O., MB BS, FRCS, FRACS  
 Glenn, D. C., MB BS  
 Hume, K. F., MB BS  
 Leckie, B. D., MB BS, FRCS, FRCSed  
 Orr, K. B., MB BS, FRCS  
 Silvertown, R. P., MB BS, FRCS  
 Failes, D. G., MB BS, FRCS, FRACS  
 Reamer, J. E., MB BS, FRCS, FRCSed, FRACS

**Tropical Medicine**

..... Prof.  
 Black, R. H., MD BS Syd., DTM&H Ldn. Sr. Lectr.

**†SPECIAL LECTURESHIP**

... (Aust. Lat)

**TUTORIAL CLASSES**

Wilson, J. L. J., BA N.Z. Dir.  
 Davies, J., MA Wales Asst. Dir.  
 4 Sr. Staff Tutors, 8 Staff Tutors, 125 Tutorial Class Lectrs.†

**ADMINISTRATIVE AND OTHER STAFF**

Accountant: J. C. Bongers, FASA, Information Officer: A. A. Gamble, FRAIA. Dep. Registrar: H. G. McCredie, LL.B. Asst. Registrar: M. Nell McKenzie, BA (Asst. Registrar in charge of Exams), S. Weir Wilson, BEC; D. R. V. Wood, BEC, R. B. Fisher, MA N.Z.; Jean D. Laing, BA DipSocStud; J. H. Elliott, BEC Asst. Accountant; C. A. McClennahan, BEC Asst. Librarian; Beatrice P. Wines, BA Asst. Librarians; Marjorie M. Thompson, BEC (in charge of Cataloguing); Jean P. Whyte, BA Adel., AM Cwe (in charge of Public Services). Acquisitions Officer: C. M. Hotimsky. Archivist: D. S. Macmillan, MA Glas. Dir. of Student

Health Services: T. D. Wilkins, MB BS. Dir. of Student Advisory Services: S. W. Cohen, PhD Lond., MA. Adviser to Men Students: G. Y. D. Scarlett, BA. Adviser to Women Students: Agnes M. A. Scobie, BA. Officer of Works: R. J. Buckhill, BE BEC DipTCP. Architect Planner: W. V. Abraham, BArch DipTCP. Sr. Admin. Officer: K. R. McInnes, BEC DipTCP. Officer in Charge of Services: G. Preston, BA. Exec. Asst. in sch. of phys.: O. A. Guth. Sec. to Appts. Bd.: Isabel D. McKinnay, BA. Sec. to Extn. Bd.: J. J. Nicholls, MA Camb., BA. Housing Officer: Mrs. Doris Whelan.

## COLLEGES WITHIN THE UNIVERSITY

ST ANDREW'S COLLEGE, Newtown, Sydney (tel. 51 1087) (Presb.) For men. Principal—Rev. A. A. Douglas, MA Vice-Principal—Prof. R. N. Spann, MA Oxo. 29 Tutors.

ST JOHN'S COLLEGE, Camperdown, Sydney (tel. 51 1240) (R.C.) For men. Rector—Very Rev. B. J. Burnheim, MA NUI, DPhil. Lowman Vice-Rector—Rev. R. J. Hine 16 other Tutors.

ST PAUL'S COLLEGE, Newtown, Sydney (tel. 51 1447) (C of E). For men. Warden—Rev. F. R. Arnott, MA Oxo., ThD A C T Sub-Warden—J. F. Peniar, MB BS, MRACP 29 other Tutors.

SANCTA SOPHIA COLLEGE, Camperdown, Sydney (tel. 51 2467) (R.C.) For women. Principal—Rev. Mother Yvonne Swift, LLB MEd Vice-Principal—Mother Mary Shamelin, BA 13 Tutors.

WESLEY COLLEGE, Newtown, Sydney (tel. 51 2024) (Methodist). For men. Master—Rev. B. R. Wylie, MA MEd, BD MEd. Do Coll. Vice-Master—Rev. G. S. Dick, BA BD Syd, Theol MEd Do Coll. 15 Tutors.

THE WOMEN'S COLLEGE, Newtown, Sydney (tel. 51 1195). (Undenominational). Principal—Doreen Leagley, MBE, BSc DipDuc MEd 21 Tutors.

## GENERAL INFORMATION

Founded in 1850, the Univ. of Sydney is the oldest univ. in Australasia. Its development has been largely due to private benefactions. The act of incorporation provided for the appt. of a senate of 16 fellows (later increased to 26) and a statutory grant of £A5000. The first provost and vice-provost (later entitled chancellor and vice-chancellor) were elected the following yr., and the first 3 profs. arrived in Sydney from the U.K. in 1852, the yr. of the univ.'s inauguration in the Sydney coll. bldg. (now occupied by Sydney Grammar Sch.) in College St. These bldgs. proved to be inadequate, and the state govt. made a grant of land at Grace farm on the western boundaries of the city, with provision for subgrants by the senate for 4 colls. and for subsidies towards the coll. bldgs. and the salaries of their hds. The univ. was transferred to this, its present site, in 1857. St Paul's College (C of E) was establd. in 1854. St John's (R.C.) in 1857. St Andrew's (Presb.) in 1867, the Women's College (undenominational) in 1889, Wesley College (methodist) in 1910 and Sancta Sophia College (R.C. women) in 1929. All were built on univ. land and subsidized on equal terms.

Most of the univ. bldgs. have been provided from public funds. The Great Hall, a replica of Westminster Hall, London, was opened in 1859 and the main bldg. completed the following yr.

The univ. was granted a royal charter in 1838. Women were admitted to membership of the univ. in 1882 and were given the same rights as men 3 yrs. later.

Sydney (pop. 2,181,211) is the capital and metropolitan city of the state of N.S.W.

**CONSTITUTION** The body politic and corporate of the Univ. of Sydney consists of a senate constituted of 4 fellows apptd by the governor, 1 elected by the legislative council, 1 by the legislative assembly, 10 by the grads., 3 by the fellows, 1 the vice-chancellor of the time, 5 rep. of the teaching staff, 1 (a grad.) rep. of the undergrads. The chancellor and deputy-chancellor are elected

by the senate from its own members. The chancellor or, in his absence, the deputy-chancellor, presides at all meetings of the senate; if both are absent, a chairman is elected by the fellows. The entire management of the affairs, concerns and property of the univ. is controlled by the senate, which makes the by-laws and signs subject to approval of the governor, who is the visitor to the univ. No religious test is administered to any person.

There is a professional bd. to further and co-ordinate the work of the facs and depts and encourage scholr. and res. The facs. are responsible for supervision of teaching and conduct of exams. The proctorial bd. may, on reference by the vice-chancellor, impose penalties for breach of discipline or misconduct by students.

**INCOME** (1961) £A4,803,373 (state govt. grants, 43 per cent.; Commonwealth govt. grants, 33 per cent.; fees, 20 per cent.; endowments, 2 per cent.; other sources, 2 per cent.).

**FACULTIES AND DEANS** (1961) Agric., Prof. J. R. A. McMillan; archit., Prof. H. I. Ashworth; arts, Prof. J. M. Ward (hist.), dent., Prof. A. J. Arnott; econ., Prof. S. J. Butlin; engin., Prof. W. H. Wittrick (aeron. engin.), law, Prof. K. O. Shatwell, med., Prof. F. R. Magarey (pathol.); sci., Prof. T. G. Room (maths.); vet. sci., Prof. D. McFarlane.

**UNIVERSITY PREMISES.** The univ. has now purchased some 70 per cent. of the privately-owned land adjacent to its existing grounds. With the completion of certain new bldgs., development of the conception of the precinct can proceed, but the full pattern of precinct planning to provide for an ultimate pop. of 16,000 students will not be clear for about 7 yrs.

**THE UNIV. LIBRARY**, 758,707 vols., consists of the Fisher lib. and its 3 branches together with 52 dept. librs., the largest of which are: agric., 5943; archit., 13,221; dent., 7345; econ., 9552; engin., 25,246; geog., 8401; geol. & geophys., 11,006;

law, 38,769, med., 30,167, phys., 4710; tutorial classes, 3896. Associated libraries within univ. grounds, (approx.) 245,165. Grand total, 963,872. 32,463 vols. are in Chinese and Japanese. The libr. contains the 11th Macdonald collection of 17th and 18th century Engl. lit.

**MUSEUMS.** Nicholson collection of prehistoric, Egyptian, nr. eastern, Cypriot, Greek and Roman antiquities; Macleay nat. hist.; J. T. Wilson human anat.; J. L. Shillibear compar. anat. & phys. anthropol.; Howell zool.; pathol., obstet., nat. med. War Memorial gallery of fine arts in memory of members of the univ. who fell in world war II.

**LABORATORIES.** Agric. (agron., agric. econ., genetics & plant breeding, agric. microbiol., plant pathol. and soil sci.), anat., animal husband., archit. sci., archit. (atelier), bacteriol., biochem., bot., chem. (inorg., org., phys.), computing (phys.), dent., engin. (aeron., chem., civil, electr., mech., and mining engin. and general hydrodynamics & ship tank), geog., geol. & geophys., histol. & embryol., maths. (computing), med., obstet., pathol., pharmacol., pharm., phys., physiol., psychol., rural vet. centre, Camden, N.S.W., surg., univ. farms, Camden, N.S.W., vet. sci. (vet. med., vet. pathol. & bacteriol. and vet. physiol.), zool. Govt. labs.—C.S.I.R.O.: biochem., electr. engin., genetics, high pressure, plant physiol.; Commonwealth dept. of health, drug analysis; state dept. of agric.: milk bd. labs.

**FIELD STATIONS.** Croninell biol. stn., Penil Beach, via Woy Woy (biol. res. on central coast of N.S.W.). Cecil Hill res. stn. for cereal breeding, metropolitan area (23 acres), Waterhouse plant breeding stn., Cuthbert (nr. Gunnedah, N.E., N.S.W.). Univ. of Syd. cereal rust survey stn., Brookstead, Darling Downs, Q'ld (5 acres). McGarvie Smith animal husband. farm, nr. St. Mary's, N.S.W. (400 acres), vet. sci. farms (770 acres) for teaching of animal husband. and rural vet. centre (30 acres) for teaching of clin. vet. med. & surg. (Camden district, N.S.W.). Univ. of Syd. astron. stn., Narrabri, N.S.W. (stellar interferometer project in collaboration with Univ. of Manchester).

**HOSPITALS**—recognized clin. schs. Royal Prince Alfred, Sydney, St. Vincent's, The Royal North Shore, Concord Repatriation General and St. George H., Kogarah; Women's H., Crown St., King George V Memorial H. for Mothers and Babies (obstet. & gynaecol.); Royal Alexandra H. for Children (pediatrics); a number of others are recognized for special postgrad. trg.

The **LAW SCHOOL** (univ. dept.) is located at 167 Phillip St., Sydney (tel.: 28 5944), and the **DENTAL HOSPITAL OF SYDNEY** (univ. dept. of dent.) at 2 Chalmers St., Sydney (tel.: 61 7591), dept. of sticht. at 146-148 City Rd., Darlinghurst (tel.: 68 0522), and dept. of sticht. sci. at 118-120 City Rd., Darlinghurst (tel.: 68 0522). **POSTGRAD. CTRFF.** IN MED. at Herford House, 188 Oxford St., Paddington (tel.: 31 0671).

**SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE.** The sch. acts as the teaching and exam. centre for the univ.'s dipls. of pub. health and of trop. med. and hyg. In addition, a course in pub. health and prev. med. is given for undergrad. students. Courses are also given in architectural hyg., soc. hyg., trop. hyg. and indust. nursing. The sch. is financed by the Commonwealth health dept., but all teaching is directly controlled by the univ. and the fac. of med., together with all matters concerning dipls., syllabuses, fees, exams, etc. An advisory council of reps. of the univ. and of the Commonwealth dept. of health deals with all matters of policy. The staff consists of a dn. (also prof. of prev. med.), a prof. of trop. med., 11 med. officers, a number of visiting lects., 4 entomologists, 4 parasitologists and 11 technical officers. The DPH entry requirements are those of the General Medical Council of Gt. Britain, the DTM&H courses correspond to similar courses at the London Sch. of Hygiene and Trop. Med. and the Liverpool Sch. of Trop. Med. The main divisions of the school are those of pub. health and prev. med., trop. med. and hyg., indust. hyg., bacteriol. and pathol., parasitol. and protozool. med., entomol. & vital stats., child health and environmental health. Library of about 15,500 vols., dealing espec. in trop. med. and hyg., is available.

In the univ. grounds is the **TEACHERS' COLLEGE**, a branch of the state dept. of educ. The courses leading to the univ. postgrad. dipl. in educ. (DipEd) are arranged through co-operation between the staffs of the univ. and the coll. The **COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION** (C.S.I.R.O.): National Standards lab., situated in the univ.'s grounds. Close collaboration in res. activities exists between many univ. depts. and relevant divisions of the C.S.I.R.O. This applies particularly in agric., biochem., bot., zool., vet. physiol., electr. engin. and chem. engin. At the McMaster animal health lab., div. of animal health and production, C.S.I.R.O. facilities are available for res. in parasitol., bacteriol. and biochem. The McMaster field station (800 acres), attached to the same div., adjoins the univ. McGarvie Smith animal husbandry farm (see above). It is equipped primarily for investigations in genetics and reproductive physiol. in sheep and cattle under field conditions. In the dent. hosp. bldg. is the inst. of dent. res., which was established in 1948 for investigations into the causes and prevention of dent. caries. The inst. also does the routine pathol. work for the dent. hosp. The Queen Elizabeth II res. inst. for mothers and infants, which is in the univ. grounds, was established in 1958 for investigation of the causes and prevention of illness and deaths of mothers and infants. The Syd. group of the Radio Res. Bd. is under supervision of prof. of electr. engin. The group's main field of res. is study of ionosphere.

**ADMISSION.** See Appendix III. It should be noted that admission at the present time is re-

stricted generally to residents of N.S.W. because of shortages in staff and accommodation.

**Non-Members of the University** In exceptional circumstances only, a person without matric may be given permission by fac. concerned to attend lectures upon payment of necessary fees.

#### PUBLIC EXAMINATIONS. See Appendix III

**FIRST DEGREES.** BSc(Med) pass, honours (after completing 3 yrs in med.), 1 yr. BAgr, 3 yrs., BScAgr, 4 yrs. candidates may do a general course or specialize in agric. econ. beginning in 1st yr. or an animal husband in 3rd yr., the gen. course and the one specializing in animal husband are identical in 1st and 2nd yrs. The BAgr degree is not awarded with honours but the BScAgr may be awarded with or without honours, depending on standard achieved throughout course. BA pass, 3 yrs (4th yr. for honours): pass course—either (a) 3 sequences of 3 courses or (b) a sequence of 3 courses and 1 sequence of 2 courses with 1 individual course or (c) 1 sequence of 3 courses and 3 sequences of 2 courses, honours course—either (a) honours sequence and 1 sequence of 3 courses with 1 individual subject or (b) honours sequence and 2 sequences of 2 courses. BEc pass, 3 yrs (4th yr. for honours): 4 courses must be taken to complete 1st yr., 3 to complete 2nd yr. and 3 to complete 3rd yr.; apart from the sequence, econ. I, II and III, which is compulsory, all candidates must take 1 other sequence of 3 courses; honours are only awarded after completion of a 4th yr. but candidates for honours are expected to attend dist. courses in their chosen subject from beginning of 2nd yr. BPharm pass, 3 yrs (4th yr. for honours) BSc(GenSci) pass, 3 yrs (no honours): this degree may be taken on the basis of individual courses rather than by completion of yrs. 10 courses must be taken with minimum of a 1st and 2nd-yr. level and 1 3rd-yr. level and certain 1st-yr. courses are compulsory. Students of exceptional merit may be allowed to proceed to the BSc degree with honours. BEc pass, 3 yrs (4th yr. for honours): pass course—4 courses in 1st yr., 3 courses in 2nd yr. (1 of which may be a 1st-yr. course or a sp. subord. course); in 3rd yr. 3 alternatives are offered: (a) a full 3rd-yr. course, (b) 1 advanced course counting as a double subject, (c) 1 3rd-yr. course, 1 2nd-yr. course and 1 1st-yr. course; honours course is in addition to the foregoing. 4 yrs.—MEd pass (no honours), BE pass, honours (aeron., chem., civil, mech. or mining engin.), BE pass (electr. engin.) (5th yr. for honours), BScChemEng pass, honours, BScFor pass (no honours), LLB (full-time) pass, honours, BMus pass, honours; 5 yrs.—BArch pass, honours, BDS pass, honours, LLB (pt-time) pass, honours, BVSc pass, honours; 6 yrs.—MB BS pass, honours, 2 yrs. advanced study or res. (for persons aged 21 yrs. or upwards whose general educ. and sp. qualif. for advanced study and res. have been approved by fac. concerned)—BA or BSc. Matriculated students who have completed 7 specified courses for BA and fulfilled all requirements for DipSocWk may qualify for

pass BA and DipSocWk in 4 yrs. The LLB qualifies conditionally for admission to the Bar. Law students may take the BA first, selecting law subjects in 3rd yr., and complete combined course in 6 yrs, thereby gaining concessions in regard to periods of studentship and service as articled clerk.

In general, candidates for honours are required to do extra work except in the facs. of law, med., dent., vet. sci. and archit., in which honours are awarded on the pass work of the whole course.

There are honours schools in the following subjects: BA—(a) [ordinary honours degrees] Greek, Latin, classics, Engl., French, German, Italian, Chinese, Japanese, Indonesian and Malaysian studies, hist., philos., govt., psychol., educn., econ., anthropol., pure maths, appl. maths., mathl. stats., geog., music and archaeol.; (b) [in sch. of soc. sci.] hist., philos., govt., psychol., educn., econ. and anthropol. BSc(Med)—anat., histol. & embryol., biochem., physiol., bacteriol., pathol. and pharmacol. BSc—chem., inorg. chem., org. chem., phys. chem., agric. chem., phys. geol., geophys. with geol., geog., psychol., bot., zool., physiol., biochem., anat., pure maths., appl. maths., pharmaceut. sci. and analysis of foods and drugs, microbiol., phys. anthropol., pharmacol. and mathl. stats. BScAgr—agric. chem., agric. econ., agric. entomol., agric. genetics, agric. microbiol., agron., animal husband., gen. agric., plant pathol., soil sci., agric. bot. and biometry. BEc—econ., econ. hist., govt., econ. stats. and accounting.

The BA, LLB, BSc(GenSci) and BEc may be taken solely by pt-time attendance, the BA and BEc solely by evg. attendance.

**HIGHER DEGREES.** When the 1st degree is awarded with honours, the period necessary to qualify for a higher degree is reduced in some cases as indicated. Div. (BD), 3 yrs. from 1st degree, Master's degree: agric. (MScAgr), 2 yrs. (pass), 1 yr. (honours) from BScAgr, 3 yrs. from BAgr; archit. (MArch), 3 yrs. (or 2 yrs. advanced study and res.) from BArch, MBEc, 3 yrs. (pass), 2 yrs. (honours) or 1 yr. (honours) full-time study and res. from 1st degree; arts (MA with or without honours), 3 yrs. (pass), 2 yrs. (honours), (MA with honours), 1 yr. (honours) from BA; dent. (MDS), 2 yrs. (pass), 1 yr. (honours) from BDS; econ. (MEc), 2 yrs. from BEc, educn. (MED), 5 yrs. from 1st degree; engin. (ME), 4 yrs. (pass), 3 yrs. (honours) from BE or BScChemEng, (MEngSci), 2 yrs. (pass), 1 yr. (honours) from BE or BScChemEng, law (LLM), 2 yrs. from LLB; pharmac. (MPharm), 2 yrs. from 1st degree, 1 yr. from BPharm with honours, sci. (MSc), 2 yrs. (pass), 1 yr. (honours) from BSc, surg. (MS), 5 yrs. from MB BS; town & country planning (MTCp), 1 yr. after award of DipTCC (2 yrs.); vet. sci. (MVSc), 2 yrs. from BVSc. Doctorates (except PhD) div. (DD), 5 yrs. from 1st degree in div., or equivalent, med. (MD), 5 yrs. from MB; agric. (DScAgr), dent. (DDS), engin. (DScEng) law (LLD), letters (DLitt), sci. (DSc), vet. sci.

(DVSc), 8 yrs. from degree qualifying for candidature which (except dent and vet. sci.) may be a degree in another fac. if approved by fac. concerned. Grads. of other univs. are required to pursue at least a yrs.' advanced study and res. in Univ. of Syd. Senate has power to confer HONORARY DEGREES of bachelor, master and doctor; so far, the following have been conferred: Hon. LL.D., Hon. D.Litt., Hon. DSc and Hon. MSc. After graduation, an approved candidate may proceed to the PhD in div. and in all facs. (except law) which takes 3 yrs. from 1st degree (see below, 'Postgraduate Study').

All higher degrees (except DD and ME) are open to grads. of other approved univs. Courses of instruction for BD, MBSc, MEd and MTCP and facilities for res. for PhD and all degrees of master (except MS) are provided. Grads. of other univs. who are candidates for PhD or any master's degree (except MS) may be required to attend courses of instruction, in addn. to undertaking supervised res. which must be carried out at Univ. of Syd.

Except for MEngSc and PhD, grads. of Syd. Univ. are not required to carry out, within Syd. Univ., the res. for above higher degrees. The res. for MEngSc and PhD must be carried out within Syd. Univ.

**HONORARY DEGREES.** See 'Higher Degrees', above.

**DIPLOMAS.** *Postgraduate:* admin. sci. (Dip AdminSci), by exam., open to grads. in any fac. 2 yrs.; agric. by exam. & thesis, open to grads. who have completed courses acceptable to fac., 1 yr. —(DipAgrChem); (DipAgrEc); (DipAgrEnt); (DipAgrGen); (DipAgrMicro); (DipAgrPath); (DipAgrSci); (DipAgrHus); (DipAgrHus); (DipAgrHus); educn. (DipEd), which may be taken also in the teaching of English as a foreign lang., by exam., open to grads. in any fac., 1 yr.; dent. (DipDent), by exam. and thesis, open to grads. of 1 yr.'s standing who have completed courses acceptable to fac. of dent., 1 yr.; numerical analysis & automatic computing (DipNA&AC), by exam., open to grads. who have completed maths. II (pure & appl.), 1 yr.; psychol. (DipPsychol), by exam., open to grads. with hon. or equivalent in psychol. who have completed approved work in abnormal psychol., 2 yrs.; medical, by exam. after completing prescribed course, open to qualified med. practitioners who have had specified general and special experience—anaesthesia (DA), 6 mos.; clin. pathol. (DCP), 21 mos.; dermatological med. (DDM), 12 mos.; gynecol. and obstet. (DGO), 8 mos.; laryngol. and otolaryngol. (DLO), 8 mos.; ophthalmol. (DO), 8 mos.; pub. health (DPH), 1 yr.; psychol. med. (DPM), 17 mos.; diagnostic radiol. (DDR), 14 mos.; therap. radiol. (DTR), 14 mos.; trop. med. and hyg. (DTM&H), 6 mos. *Not restricted to graduates:* anthropol. (DipAnth), grads. by thesis within 3 yrs. or such longer period as approved by fac., non-grads. by exam. and thesis within 5 yrs.; social work (DipSocWk),

by exam., 3 yrs. (and-yr. status may be granted to candidates who have completed 3 specified courses towards BA); town and country planning (DipTCP), by exam., 2 yrs. Where applicable all dipls. are open to grads. of any approved Univ.

**POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION.** Dept. of maths (pure maths): 1 course in abstract algebra (full-time) throughout yr. Dept. of maths (appl. maths): courses in appl. maths. and theoret. geophys. given irregularly. Dept. of chem. engn. annual series of 10 lectures on current chem. engn. techniques in May/July. Fac. of law: series of 20 lectures on criminol. in May/Oct. Dept. of med.: course of 10 sessions in clin. respiratory physiol. in April/May, courses in clin. physiol. and liver disease in May/June, radio-isotopes in med. throughout yr. and advanced med. (in conjunction with postgrad. cttee in med.) in March. Dept. of surg.: course in advanced surg. (in conjunction with Royal Aust. Coll. of Surgeons) in March/April, wely surg. seminars at Royal Prince Alfred Hosp. in March/Oct., course in cardiac aetiol. and its management in June. Dept. of geol. & geophys. occasional courses in specialist fields of geol. and geophys. Dept. of town & country planning: courses for suitable students in theory & practice of town & country planning III, land econ., landscape archit. and outlines of soc. & econ. engn. throughout yr. Postgrad. cttee in dent. sci., cttee. for postgrad. studies in dept. of law and postgrad. cttee. in med. conduct regular courses in selected fields throughout yr. for which printed prospectuses available. Extension bd. and dept. of agric., refreshes courses in expen. methods in Aug.

**POSTGRADUATE STUDY AND RESEARCH FACILITIES.** The univ. offers postgrad. courses for dipls. in admin. sci., educn., numerical analysis & automatic computing, psychol., pub. health dent. and in those fields in agric. and med. specified above under the heading 'Diplomas—Postgraduate'. The usual facilities for postgrad. res. are provided in the various depts. and candidates may proceed to the master's degree in all facs. and to the PhD in div. and in all facs. except law after completing at least a yrs.' supervised res. The univ. publishes annually a statement entitled *Research and Scholarship* which sets out particulars of the res. completed and in progress in the different depts.

**RECOGNITION OF STUDIES ELSEWHERE.** The professional bd. grants proper status to persons who have completed part or all of a degree course in other univs.

**STUDY LEAVE.** 1 yr. on salary after completion of 6 yrs.' service for full-time permanent members of teaching and certain res. members of admin. staffs; leave is not accumulative. Addnl. leave may be granted without salary. Leave may be granted with salary at the equivalent rate of 1 term for each 2 yrs. of service, e.g. after 6 yrs. since the last period of leave with salary, a term's leave with salary may be granted and leave entitle-

ment retained for the remaining 4 yrs. of service. Certain travel allowances are granted.

**Fees.** Higher degree fees: master's, £A15; doctorates, £A20. Degree of bachelor (incl. matric and degree fees): sci. (med.) (following man of 3 yrs. in med.), £A108—1 yr., music (following 2 yrs. in arts), £A216—2 yrs., pass courses in arts, sci., gen. sci., agric. and econ., £A234—3 yrs., pass courses in educn., law, engin. and agric. sci., £A432, honours courses in arts (1 or 2 schs), sci. and pharm., £A432—4 yrs., pass courses in law, dent and archit., £A540, in vet. sci., £A468, in econ. (grt.-time), £A375, honours courses in arts (2 schs) and engin. (elects.), £A540—5 yrs.; in med., £A576—6 yrs. In addition to above fees: hosp. fees—med., 4th yr., £A31: 10s, 5th yr., £A23: 15s, 6th yr., £A4: 10s.; dent, 2nd yr. to 5th yr. (incl.), £A18 p.a.; farm residence, vet. sci., 5th yr., £A24. Compulsory subs. to S.R.C., unions and sports unions: 1 yr.—men, £A16: 7s., women, £A13: 7s.; 2 yrs.—men, £A27: 14s., w. £A26: 14s.; 3 yrs.—men, £A39: 15s., w. £A40: 15s.; 4 yrs.—men, £A50: 8s., w. £A53: 8s.; 5 yrs.—men, £A61: 15s., w. £A61: 15s.; 6 yrs.—men, £A69: 2s., w. £A69: 2s.

**ACADEMIC YEAR.** March to Nov. 3 terms of 9 wks each.

**VACATION COURSES.** Short bridge course in maths in Feb. as intro. to maths. I for students who have passed in gen. maths. at matric. level; about intro. course in phys. in Feb. for students who have not previously studied phys., conversion course in phys. in Jan. for students who have completed phys. I (pass) and wish to proceed to phys. II (dist.), post-coll. course for teachers of French in Jan., summer sch. (gen.) in Jan./Feb. and seminar on some particular aspect of music for music teachers and members of public in May; summer sch. on new companies law in Jan.; ocean refresher courses for geol. sch. teachers; summer sch. for phys. sch. teachers in Jan.; course in biol. for sch. teachers in Feb., marine sch. at C.S.I.R.O. marine biol. labs., Croninella in May and course in animal col. at Croninella biol. field stn. in Aug. conducted by dept. of zool.; course of 2 or 3 wks. for grade and undergrads. on human relns. in industry and mod. chem. engin. techniques in Aug.; ocean courses at postgrad. level in civil engin.; ocean courses at postgrad. level and some for farmers in animal husband. Extension biol. (with dept. of hist.) refresher course in animal hist. (with dept. of zool.) summer sch. in biol. in Jan. Dept. of tutorial classes: 2 one-wk. residential liberal studies courses for indus. expec. in Feb., May and Aug.; in conjunction with W.E.A., 10 days' summer sch. at univ. (part residential), residential week-end courses throughout yr. and 10 days' courses in Dec./Jan. for class students and gen. public at W.E.A. club, Newport, nr. Sydney. Sancta Sophia Coll. seminars on theol. over 2-yr. period in Jan. and Aug.; week-end seminar (arranged by Newman Assocn.) on various topics in Feb. Sch. of pub. health and trop. med.

vac. courses vary with demand, e.g. in 1961, course in indus. hyg. for med. practitioners, one for sch. med. officers and one on mosquito control for health personnel. Another course of 30 lectures in trop. med. and hyg. for missionaries, planters, nurses, etc., held annually during term.

**PRINCIPAL 'OPEN' AWARDS for candidates at N.S.W. leaving cert. exam. *Subsidiaries*—Commonwealth govt. scholars (see p. 12) tenable for normal period for first degree to all Australian univs. (999 awarded to Sydney Univ. for 1962), James Aitken (2), £A50 for 1 yr. in any fac.; Bowman-Cameron, £A50 p.a. for 3 yrs. in arts, Martin McIlraith (2 vet. sci., 2 agric., preference to ex-servicemen or their sons), £A100 each (plus £A25 for incidental expenses) for 1 yr.; Queen Victoria (for best girl matriculant needing financial assistance), £A20 p.a. for 3 yrs. in any fac.; Robert Campbell (preference to necessitous child of member of A.I.F. 1914-18), £A50 p.a. for 2 yrs. in any fac.; Barker No. III, £A50, and Horner exhibition, £A10, fee 1st-yr. course in maths., in arts, sci. or engin.; Liversidge (2), £A37: 10s. each for 1st-yr. course in chem.; (L.C. and special paper)—Cooper No. II, £A50 for 1st-yr. courses in Latin and Greek; Gaston No. III, £A22: 10s. for 1st-yr. course in French; Lithgow No. I, £A35 for 1st-yr. course in German; Plummer schol., £A70 for 1 yr. in sci.; Gower schol. (4 for members of forces on active service, 1939-45 war, their children or grandchildren), £A75 p.a. for normal period of course Bursaries (40) awarded under Bursary Endowment Act, 1922, to Commonwealth scholars; £A65 p.a. (for students living at home), £A104 p.a. (for students living away from home), with allowance for text-books not exceeding £A10 p.a. in each case, tenable for normal period of course, subject to financial circumstances, a limited number of privately endowed bursaries for promising but necessitous students, £A25-£A50 p.a., with or without remission of lecture fees, awarded annually. Univ. grants remission of half lecture fees for students sponsored by Soldiers' Children Educn. Bd. (N.S.W. Repatriation Dept.) and b4 pays all other fees. Sydney Legacy War Orphans' Fund covers all fees for students sponsored by Legacy Club of Sydney. Interest-free loans, repayable within a yrs. of graduation, may be granted from S.R.C. bursary & assistance fund to final-yr. students in financial need.**

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** A.E. & F.A.Q. Stephens postgrad. res. fellowship, £A200 for 1st yr., £A50 for 2nd yr. of tenure, tenable by a grad. of any univ. except the Univ. of Syd. for 1 yr. (may be renewed for and yr.) for postgrad. work within the Univ. of Syd. in any fac. H.B. & F.M. Gration assigned res. schol. (a), sr. grade, £A150 p.a., jr. grade, £A200 to £A1000 p.a. with annual increments of £A50, tenable for up to 3 yrs. by grads. of any univ. within British Commonwealth or by grads. of any univ. who are British subs., for postgrad. study within Univ. of Syd.

in chem in relation to industry and agric. Commonwealth postgrad. res. studentships (applicants must be domiciled in Aust.) and univ. res. grant studentships, £A900 to £A1000 p.a. (to £A1050 p.a. in sp. circumstances), tenable by grads or graduates of any Aust. or overseas univ. for 1 yr. (may be extended for 2nd, 3rd or 4th yr.) for postgrad. work within Univ. of Syd. in any fac. F. H. Loxton postgrad. studentships or scholars (3, i.e. 1 in each of agric., chem., engin., vet. sci.), studentship, £A1000 to £A1050 p.a., scholar, £A1600 to £A2075 p.a., tenable by male grads of any univ. for 1 yr. (may be extended for 2nd, 3rd or 4th yr.) for postgrad. res. within Univ. of Syd.

There is a PUBLIC RELATIONS AND INFORMATION OFFICE.

APPOINTMENTS BOARD (tel.: 68 1720) Provides careers information for students and grads through personal interviews, careers libr., talks, etc., and assists them to secure permanent, temp. and pt-time employment, arranges employers' interviews at univ. and collaborates with extension bd. in arranging lectures for business executives.

GRADUATES' ASSOCIATIONS, Chemical Soc., Dental Alumni Soc., Sydney Assoc. of Univ. Teachers, N.S.W. Assoc. of Univ. Women Graduates, Univ. Club (for men), Newman Assoc. of Catholic Graduates, the Kabeiro of the Univ. (dining club for male grads and undergrads), Soc. for Exper. Biol. of N.S.W., Arts Assoc. (for grads and other interested persons), Economics Graduates' Assoc., Chem. Engin. Assoc., Civil Engin. Graduates' Assoc., Electr. Engin. Soc., Mineral Soc. (genl. group), Agric. Graduates' Assoc.

RESIDENCE. The 6 colls within the univ. (see p. 101) provide accom. for the no. of students indicated. St. Andrew's Coll., 164, fees £A273; 150 p.a.; St. John's Coll., 115, fees £A255 p.a.; St. Paul's Coll., 145, fees £A240 p.a.; Sancta Sophia Coll., 93, fees £A240 p.a.; Wesley Coll., 160, fees £A272 p.a.; the Women's Coll., 145, fees £A272. Tuition, supplementary to univ. lectures and classes, is given in the colls. Most of the tutors are members of the univ. staff, some are resident in the colls, but all are available to students for personal consultation. Students need not reside in one of the colls.

STAFF RESIDENCES. There are no permanent residences controlled by the univ. for members of teaching staff. The univ. has, however, arranged with its bankers for larger advances than are normally granted on mortgage to be made to male married members of permanent teaching and sr. admin. staffs for purchase of houses as approved by the univ. and its bankers. The bank advances up to 90 per cent. of approved purchase price and the univ. guarantees 25 per cent. of repayment of purchase price of houses bought under this scheme.

ADULT EDUCATION. Univ. extension lectures arranged by the extension bd. are given in courses

of from 3 upwards. Tutorial classes are provided, as prescribed by the act of 1912, under the superintendence of a jt. cttee. of the univ. and the W.E.A. of N.S.W.

UNIVERSITY MILITARY AND AIR FORMATIONS. The Sydney Univ. Regiment is organized along the lines of a pontropic infantry bn. but with a sp. component for officer trg. It forms part of the citizen military forces. C.O. Lt.-Col. R. I. Grant, Lt.-B. H.Q. S.U.R. Trg. Depot, Univ. (tel.: 68 3034). The Sydney Univ. Squadron, a citizen air force unit of the R.A.A.F., gives undergrads an opportunity to do officer trg. which, in accordance with their academic qualifs., will fit them for service as officers on the permanent air force or the reserve. The sqn. and undergrads apptd. to commissions in the permanent air force. C.O. S/Ldr B. M. Thomas H.Q.: Dymock's Bldg., 428 George St., Sydney (tel.: BL4381).

STUDENT ATHLETIC FACILITIES. For men and women: archery, athletics, badminton, basketball, cricket, fencing, golf, gymnastics, hockey, judo, ski-ing, squash rackets, swimming, table tennis, tennis. For men: baseball, boxing, football (rugby union, Aust. rules, soccer), rifle shooting, rowing, surf life-saving, volleyball, water polo, weight lifting, wrestling. For women: softball.

STUDENT HEALTH SERVICE. The univ. provides a free service to all students: diagnostic, therapeutic advisory services, emergency treatment for casualties and some med. counselling; reference to consultants, B.C.G. vaccine, tetanus and other immunization on request. Annual chest x-rays through co-operation with tuberculous div. of state dept. of health; blood transfusion service of Aust. Red Cross Soc. visits univ. 3 times a yr. to collect blood from donor students and staff.

STUDENTS' REPRESENTATIVE COUNCIL comprises reps. of men and women day students in the several facs and extra fac. bds. and depts. (elected by ballot), reps. of evg. students' assoc. (chosen by assoc. cttee.), a pres. and other officers (chosen by these reps.). The SRC conducts the affairs of the student body and represents it generally, makes representations to the univ. on behalf of the student body or student soc., and has certain disciplinary powers subject to approval of vice-chancellor. All students must pay membership fee of £A1:10s. (tel.: 68 5054).

UNIVERSITY UNIONS. The unions are an integral part of the univ. Sydney Univ. union (for men), founded in 1874 as a debating soc. Dining-rooms (public and private), reading-rooms, common-rooms, billiards-room, library, grocery dept. and bank agencies; union theatre under construction. Fees: £A5 entrance fee and annual sub., £A4, for all matriculated men students; life membership (grads.), £A25. Sec.: I. A. Ramsay, B.E., Sydney Univ. women's union, founded in 1914. Premises, Manning House.

Dining-rooms, common-rooms, study-room, stationery shop. Fees: £A5 annual sub. for all women students enrolled in a course; life membership (grants), £A25. Sec.: Beryl E. Stevens, BA DipEd.

**PUBLICATIONS.** *Calendar*, with annual report, 7s 6d. *Handbooks* of the facs of arts, engin, med, sci (annually), dent (biennially), 4s 6d each, fac of econ (annually), 2s 6d. *Dept of town & country planning* (triennially), no charge. *Handbook* to Nicholson museum of antiquities (o/p). *Prospectus* of the dept of music, soc work and tutorial classes, sch of div and extn bd (annually) annual exam papers in sets, 2s. *Annual Reports* of appts bd, extn bd, cttee for postgrad studies in dept of law, postgrad cttee in med., sports union (men's), women's sports assocn., Syd Univ union, women's union, cttee for tutorial classes. *Research and Scholarship* (annually); *List of Graduates* (every 5 yrs); *Letter to Sydney Univ Graduates from the Vice-Chancellor and Principal* (annually); *The Gazette* (quarterly); *Current Affairs Bulletin*, 30 vols. (fortnightly, ed by dept of tutorial classes), 6d a copy or annual sub 13s 6d for 26 copies. *Oceania*, 32 vols (quarterly), £A2 10s per vol or 12s 6d a copy (vols 1-22, £A1 10s; vols 23-30, £A2), annual sub. £A2 10s. *Aust Journal of Educ.* (3 issues annually) (ed by dept of educn), 7s 6d a copy or annual sub £A1 1s. *Religious and Semitic Booklist* (dept of Semitic studies); *Aust Journal of Social Issues* (twice annually) (cttee for postgrad study in soc wk, ed by dept of soc wk), 10s; *Sydney Law Review* (annually) (under auspices of fac. of law), £A1; notes on lecture courses conducted by cttee for postgrad stud. in dept of law, £A3 3s a copy. *Industrial Law, Law and Practice Relating to Stamp, Gift and Estate Duties, Income Tax Laws, The New Divorce Laws, The New Companies Law*; notes and material on subjects of law sch curriculum, 19s. to £A3. *Publications from Sch of Physics*, 1954-61; *The Nucleus* (semi-annually) (Nuclear Res. Foundation); *Class of 1961* (employment availability, courses of study and industrial records) (dept of chem engin); *Acta Structorums* (semi-annually) (dept. of civil engin); *Bulletin of the Postgrad Cttee in Medicine* (monthly), 3s 6d a copy or £A2 2s p a; *Union Recorder* (weekly during terms), *Union*

*Diary* (annually), 7s 9d; *Information Handbook for Women Students* (annually) (Syd Univ women's union); *George Judah Cohen Memorial Lectures* (biennially); *Todd Memorial Lectures* (frequency varies), 4s 6d; *George Arnold Wood Memorial Lectures* (triennially), 3s; *Farner Memorial Oration*, 1961; *Arts—The Proceedings of the Sydney Univ Arts Assocn.* (frequency varies), 10s 6d. a copy; *Apollonia* (annually) (journal of Dental Alumni Soc.); *Budnell* (St Andrew's Coll periodical) (3 times p a); *Mauwa* (journal of Newman Assocn.) (annually), 4s; *Sydney Univ Women's Coll Calendar* (annually); *The Univ of Sydney, A Description*, 5s; *The Univ. of Sydney Centenary Celebrations*, 1952, 14s; *The Union Book of 1952* (commemorating centenary of univ), £A1 1s; H E Barff *A Short Historical Account of the Univ. of Sydney, 1852-1902* (o/p), but some copies available at univ.; *One Hundred Years of the Fac of Arts* (Angus & Robertson, 1952, o/p); *The Jubilee Book of the Law School, 1895-1940* (o/p), but some copies available at law sch); 7s. W Vere Hole & Anne H. Treweek, *The History of The Women's Coll, 1889-1953*, 17s 6d. Students' publications: *How Soci* (weekly during terms); *Orientation Handbook* (annually); *Reviews* (annually) (Students' Rep. Council); *Law School Final Year Book*, 1950, £A1 10s; *Innumerate* (med) (twice a term); *annually Trivium* (agric); *First Mention* (archt); *Arts* (arts); *Articulator* (dent); *Economic Review*, *Journal of the Sydney Univ Econ Soc*; *Engineering Yearbook*, *Blackacre* (law), 5s; *Senior Yearbook—Sydney Univ Medical School*, *Sydney Univ Medical Journal*, *Science Yearbook*, *Oceania* (geog. soc.), *Centaur* (vet sci); *St. Andrew's Coll. Magazine*, *Johns* (St John's Coll); *Pomine*, *Yakham* (St Paul's Coll); *Sancta Sophia College*, *Wesley Coll Journal*, *Sydney Univ Women's Coll Magazine*.

**UNIVERSITY BOOKSHOP.** In 1958 the Sydney Assocn. of Univ Teachers and the Students' Rep. Council sponsored the formation of Univ Co-operative Bookshop Ltd. under the Co-operative Act of N.S.W. The co-operative operates 2 bookshops within the univ. grounds and has branches in several other educn instrns. Its main purpose is to provide a service at low cost in educn and tech. books for students, teachers and other members.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS** Nuffield Foundation, £A50,000 for endowment of Nuffield chair of anaesth.; Dr & Mrs C. H. Green, £A22,273 towards construct. of and automatic computer in sch. of phys.; estate of F J Wallis, £A20,000, half for Postgrad Med Foundation and half for gen. purposes of univ.; N.S.W. Wheat Res. Foundation, £A15,382 for wheat res in dept of agric.; Right Hon the Viscount Nuffield, £A10,000

for Postgrad Med Foundation; Ethel J. & Lynell Scott Foundation, £A10,000 for res. into causes and treatment of peritonitis; Australian Consolidated Press, Ltd., £A10,000, S E Chatterton, £A10,000 and W D & H O Wills (Aust.), Ltd., £A10,000 for res in sch of phys. Augmentation to existing foundations (not included in total below), £A17,112 for postgrad study or res. overseas in an arts subj.



H. B. and Florence M. Gaston postgrad. scholop., £A12,089 for res. in chem. related to industry and agric.

(Total value of all benefactions received. £A1,042,513)

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed. Stephen Roberts theatre (air-conditioned lecture theatre to accomm. 320); materials and structures lab (1st bldg. of new engin. precinct in Darlington extension area); extensions to teaching and res. units at rural vet. centre, Camden; Angus memorial lecture theatre (to accomm. 75); St Andrew's Coll., reconstruction and remodelling of original bldg., new Menzies wing (52 single students' bedrooms), St John's Coll., 1st bldg. of main entrance hall, St Paul's Coll., 2 tutorial rooms and 20 students' rooms, Sancta Sophia Coll. *Approaching completion*: stage 1 of Carlaw bldg., for pre-profess. courses in fms of agric, dent, engin., med and vet sci and dept of pharm., and for depts of maths. (pure maths), maths (appl. maths) and mathl. stats., underground reading-room block of new Fisher libr. (to accomm. 3000); new student block (44 students' rooms, common-rooms, 2 tutors' suites and music-rooms), St. Paul's Coll.; extensions to dining hall, Wesley Coll.; staff dining-room, Sancta Sophia Coll.; theatre (to accomm. 639) and clubroom extension, Syd. univ. union.

**NEW DEPARTMENTS AND CHAIRS** Chair of oper. dent., chair of prev. dent., chair of growth dent., 4th chair of law, chair of phys. (electronic computing), chair of phys. (high energy nuclear), and chair of physiol.

**RETIREMENTS** Dr. C. H. Currey (law), Dr. W. E. Fisher (med.), Prof. J. M. Holmes (geog.); Emer. Prof. C. R. McRae (dep. vice-chancellor), J. Steagrod (surg.); A. S. B. Studay (gynaecol.)

**RESIGNATIONS** B. H. Allcock (dent.), to private practice; Dr. T. H. Rees (bot.), apptd. 129 offices, plant physiol. unit, C.S.I.R.O.; R. W. Benthall (law), apptd. to post in industry, Valma M. Bonnell (Engl.), apptd. lectr. in Engl. lang., Q'ld., M. C. Bradley (philos.), apptd. lectr. in philos., Adel.; A. B. K. I. Bridge (law), apptd. resident judge of supreme court, Northern Territory; Dr. B. T. Brown (pharm.); Dr. J. C. Butcher (appl. maths.), apptd. asst. res. mathematician, Calif.; Dr. Eva Eden (biochem.), apptd. warden, St. Catherine's Coll., W. Aust.; P. Fontaney (French) apptd. lectr. in Engl., Lyons; J. D. Frodsham (oriental stud.), apptd. lectr. in Chinese hist., Malaysia; J. B. Hemmery (archaeol.), B. R. Malay (adman.), apptd. sec., Natl. Heart Foundation of Aust.; Prof. W. Maltbie (Engl. lit.); D. H. Monro (philos.), apptd. to chair of philos., Monash; J. M. Nield (anat.), to private practice, Dr. B. R. A. O'Brien (histol. & embryol.), apptd. as lectr. in anat., N.S.W.; Dr. R. H. Pollack (psychol.), apptd. project dir. of developmental

psychol., Inst. for Juvenile Res., Chicago; G. P. Raymond (civ. engin.), apptd. asst. prof. of civ. engin., Qu.; Dr. C. G. Sencier (chem. engin.), apptd. as lectr. in engin., Monash; C. F. Thwaites (anat.), to private practice, V. H. Treat (law), F. W. D. van Zyl (archt.), Kathleen M. Winnung (care of newborn), Dr. T. Wood (biochem.), apptd. lectr. in biochem., Inst. of Psychiatry, Maudsley Hosp., Lond.; Dr. L. A. Woolf (chem.), apptd. to post in industry, Dr. N. R. Wyndham (surg.)

**DEATHS** A. N. Colefax (sr. lectr. in zool.); Dr. A. H. Hill (lectr. in Indonesian & Malayan studies), Emer. Prof. C. G. Lambie (Bosch prof. of med., 1930-56), Emer. Prof. H. Priestley (McGaughey assoc. prof. of physiol., 1921-38, and McCaughey prof. of biochem., 1938-48), Sir Robert Wallace (vice-chancellor, 1928-47)

**HONORARY DOCTORS** D.Litt.—G. Faunce Allman, prof. of organ at N.S.W. Conservatorium of Music, Syd. univ. organist, 1936-61; Dr. R. B. Madgwick, vice-chancellor, N.E. LLD—A. Halloran, Sydney solicitor, active in fields of educn. and philanthropy D.Sc.—Sir Macfarlane Burnet, prof. of exper. med., dir. of Walter & Eliza Hall Res. Inst., Melbourne; C. H. Green, hon. chairman, Geophysics Service Inc. and vice-pres., Texas Instruments Inc., benefactor of the univ.; G. Mackness, sometime lectr. in charge of dept. of Engl., Syd. Teachers' Coll., bibliographer

**OTHER DEVELOPMENTS** 1st conference of Aust. univs. held at Syd. univ. in Aug. Exclusion of students failing twice in a yr. without good cause.

## Statistics

### STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	7664	2349
Women	3063	1102
Total	10,667	3442

Distribution by Faculties: Agric., 324; archit., 296; arts, 4502; dent., 325; div., 11; econ., 971; educn., 13; engin., 1068; law, 816; med., 2198; music, 4; pharm., 656; sci., 1725; vet. sci., 336. Others: anthropol. (DipAnthol.), 4; educn. (DipEd), 286; numerical analysis & automatic computing (DipNA&AC), 23; psychol. (DipPsychol.), 6; soc. work (DipSocWk), 74; town & country planning (DipTCP), 86; students studying under regn. of Aust. Coll. of Speech Therapists, 17; Aust. Physiotherapy Assocn., 80; Pharmacy Bd. of N.S.W., 268. Total 14,109

Included in the figures above are—

Postgraduate students, 1611

New admissions, 5805

[continued on p. 120]

\* Part-time is defined in the way recommended by the Australian vice-chancellors' cttee. as being students undertaking less than 75 per cent of work for full-time study or undertaking full programmes of work as prescribed by univ. in a course which univ. does not consider equal to full yr.'s work.

## UNIVERSITY OF TASMANIA\*

Founded 1890

Postal Address: Box 252 C, G.P.O., Hobart, Tasmania, Australia

Cable and Telegrams: University, Hobart

Telephone: Hobart 27741

VISITOR—H E THE GOVERNOR OF TASMANIA

CHANCELLOR—The Hon. Sir HENRY S BAKER, KCMG, DSO, LLM

DEPUTY CHANCELLOR—A W KNIGHT, CMG, MBE BSc BCom

VICE-CHANCELLOR—K. S. ISLES, MA MSc Camb, BCom

REGISTRAR—A. S. FRESHAW, BA W Aust., FCIS

LIBRARIAN—D. H. BOSCHARDT, MA NZ

## TEACHING STAFF

[† = Part-Time]

<b>Accountancy</b> , see Comm		Waters, K H, MA Camb.	Sr. Lectr.
<b>Agriculture</b>		Heed R G., BA Melb	Lectr.
Wade, G. C., MAgrSc. Melb., DSc		Bucknell, P J, BA Lond	Lectr.
<b>Botany</b>		<b>Commerce</b>	
Barber, H. N., MA Camb., PhD Lond, FAA		Firth, G. G., BSc(Econ) Lond	Prof
Curtis, Winifred M., MSc PhD Lond., FLS		Grant, J. McE., MBE Adm., DipEcon Camb.	(Appl. Econ.) Prof.
Jackson, W. D., BSc PhD		Dallas, K. M., BCom	Sr. Lectr.
Crowden, R. K., PhD N S W, BSc		Hagger, A. J., BCom Melb., PhD Lond.	Sr. Lectr.
Townsend, J. A., MA PhD Camb.		Nichols, W. E., BCom	(Acctg.) Sr. Lectr.
Murfet, I. C., BSc		Vout, A. W., BSc	Lectr.
† Dent		Dunn, L. J., BCom	(Acctg.) Lectr.
<b>Chemistry</b>		<b>Education</b>	
Bloom, H., MSc Melb., DIC, PhD Lond.		Hardoe, C. D., MA Camb	Prof
Polys, J. B., DiplIngChem DScTech Zur., DSc, FRIC		Dot, T. E., BSc	Supervisor of Pract. Teaching
Bick, I. R. C., BA MSc Q'ld., PhD Camb		Collins, T. G., BSc DipEd	Sr. Lectr.
Kelly, F. H. C., MSc Melb., DSc, FRACI		Perkins, W. H., BA DipEd	Sr. Lectr.
Friend, J. A., MSc Syd., PhD Camb.		Chappell, F. R., MA Camb., DipEd Lond.	Sr. Lectr.
Cheesman, G. H., DIC, BSc PhD Lond., FRIC		Porter, R. C., BA DipPhysEd Syd.	Sr. Lectr.
Roberts, N. K., BA W Aust., BSc PhD		Hoskell, Margaret L. O., BA	DipEd W Aust.
Baxter, J. N., MSc Syd., PhD Lond.		Willmot, Mrs. Charlotte M., DipEd	Sr. Lectr.
Smith, P. W., PhD Lond., BSc			DipPhysEd Syd., BA
† Dent		Mahoney, D. P. D., BEd Melb., BSc	Lectr.
<b>Classics</b>		Johnston, G. L., BA DipEd	Temp. Lectr.
Elliott, J. R., BA Syd., MA DipClassArchaeol		Hobcroft, R. K., DipMus W Aust.	(Music) Lectr.
Camb		<b>Engineering</b>	
Prof.		Oliver, A. R., ME Adm.	(Civil E.) Prof.
		Newstead, O. H., MBE Melb.	(Electr. E.) Prof.
		Burrell, G. J., BSc(Mech) N.Z.	Sr. Lectr.

\* Member of the Association of Universities of the British Commonwealth



## AFFILIATED RESIDENTIAL COLLEGES

**CHRIST COLLEGE**, University Grounds, Hobart (tel. Hobart 24580). (Anglican) For univ. and theol. students only, fees, £A250 p.a. Accommod. 50. Tuition given to theol. students only. Warden—Rev Canon J. L. May, MBE, MA Osm.

**HYTTIN HALL**, University Grounds, Sandy

Bay (tel.: Hobart 23534). For men, fees, £A152 p.a. Accommod. 120. Warden—G. T. J. Wilson, MA Camb & NZ.

**JANE FRANKLIN HALL**, 308 Davey St., Hobart (tel.: Hobart 23728). For women; fees, £A192 p.a. Accommod. 47. Tutorials held in some subjects. Principal—R. Fleming, BEd DipEd Syd.

## AFFILIATED SCHOOLS

**HOBART TECHNICAL COLLEGE**, Bathurst St., Hobart (tel. Hobart 23003). Principal—A. E. H. Griffiths, BSc(Eng).

**LAUNCESTON TECHNICAL COLLEGE**, Wellington

St., Launceston (tel.: Launceston 22331). Principal—J. W. Faulkner, BCom DipEd.

**MT. LYELL SCHOOL OF MINES AND INDUSTRIES**, Sticht St., Queenstown (tel.: Queenstown 36). Registrar—H. V. Gresham.

## GENERAL INFORMATION

Founded in 1890 under an Act of the Tasmanian legislature, the univ. was granted a royal charter in 1915. To the original faculties—arts, sci. and law—comm. was added in 1919, engin. in 1922 and educn. in 1951. Teaching in agric. begins in 1963. Music was taught in the fac. of arts from 1935 to 1938 but the lectureship has lapsed.

Hobart (pop. 116,000) is the capital of the state of Tasmania and one of the oldest Australian settlements.

**CONSTITUTION.** The univ. consists of a council and convocation. The council, which has the management and control of the affairs and property of the univ., consists of 19 to 21 members, 4 of whom are elected by the convocation, 3 by the teaching staff, 2 by members of parliament, 4 by the governor, and 3 by the governor on the recommendation of the council; the dir. of education and the chairman of the professional bd. are *ex-officio* members. The offices of chancellor and vice-chancellor may be filled by election by and from the members of council or by the appt. of persons not members of council. The governor is *ex-officio* visitor of the univ. The chancellor is elected every 2 yrs. and is a member *ex-officio* of every fac. and of every bd. or extee. within the univ. The vice-chancellor is the chief executive officer of the univ. Convocation consists of all grads of the univ. and members of council and teaching staff, its chief officers being the warden and vice-warden, who are elected every 2 yrs. Its main functions are to elect members of council and of a standing extee. which considers proposed new statutes or amendments to existing statutes. The professional bd. is the main academic body and exercises a general supervision over all matters concerning the studies and exams. of the univ. The facs. exercise similar functions but are subordinate to the bd.

**INCOME (1961)** £A732,233 (state govt. grant,

54 per cent., Commonwealth govt. grant, 34 per cent., fees, 10 per cent.; misc., 2 per cent.)

**FACULTIES AND DEANS (1962)** *Arts*, Prof. I. H. Smith (mod. lang.), *comm.*, Prof. G. G. Firth, *educn.*, Prof. C. D. Hardie, *engin.*, Prof. G. H. Newstead (electr. engin.), *law*, Prof. N. C. H. Dunbar, *sci.*, Prof. A. M. Clark (zool.).

**UNIVERSITY PICTURE.** The site comprises some 250 acres at Sandy Bay, an inner suburb of Hobart. An extensive bldg. programme is under way, and most depts. are now housed in permanent bldgs.

**LIBRARY** 140,000 vols.

**LABORATORIES.** Bot., chem., engin. (civil, electr., mech.), geol., phys., zool. Testing plant in engin. dept.

**ADMISSION.** See Appendix III.

**ADMISSION OR NON-MEMBERS.** Any person, whether matriculated or not, may enrol for univ. classes provided he can satisfy prerequisites (if any).

**PUBLIC EXAMINATIONS.** *Matric.*; music (held in conjunction with other Australian univs.). See also Appendix III.

**FIRST DEGREES** 3 yrs.—BA (4th yr. for hon.), BSc (4th yr. for hon.), BEc (4th yr. for hon.); 4 yrs.—BE, BE (hons.), BFor, 3 yrs.—LLB, LLB (hons.). Degree course in agric. begins in 1963. Degrees in arts, econ. and law may be taken by pt.-time study.

**Hons. schs.** in following subs: BA—classics, Engl., French, German, hist., philos., pol. sci., psychol., BSc—bot., chem., geog., geol., maths, phys., zool., BEc—econ. BE is gen. engin. degree with specialization in final yr. in chem., civil, electr. or mech. engin. (in final yr. hons. candidates do addnl. work in chosen field and

take addnl exam.) Hons in law awarded for proficiency in pass course and on submission of satisfactory essay.

**Degrees Completed Elsewhere.** The univ. provides 1st yr. of courses leading to degrees in med., dent. and agric. sci. (Adel. or Melb.), vet. sci. (Q'ld. or Syd.).

**EVENING CLASSES.** Comm. and econ students may gain first degrees by pt.-time study. Sufficient evg. courses also given in arts to enable pt.-time students to complete BA or BA hon.

**HIGHER DEGREES.** Open to bachelors of 1 yr.'s standing—MEngSci; 2 yrs.—MA, MSc, LL.M., MEd, PhD (engin and sci.); 3 yrs.—PhD (arts), MEd; 6 yrs.—DSc, 7 yrs.—DLitt, LL.D.; to masters of 3 yrs.' standing—LL.D. PhD offered only in arts, engin. and sci. All higher degrees open to grads of other univs.

DLitt, LL.D, DSc also awarded as honorary degrees.

**EXTERNAL DEGREES.** No first degrees may be taken wholly by external study.

**DIPLOMAS.** Pub. admin, 3 yrs.; educn. (postgrad.), 1 yr.

**CERTIFICATES.** Educn., 2 yrs.

**RESEARCH.** Facilities for postgrad. res. available in all facs. *Research Report* publd. annually.

**STUDY LEAVE.** Members of staff are eligible to apply for 1 yr.'s study leave on the termination of 6 yrs.' service or 6 mos.' study leave after 3 yrs.

**FEEs.** Metric, £A3, ad. *exdun. statu.*, £A2. Admission to degrees: bachelor's, £A5; 5s.; master's, £A15; 15s.; doctor's, £A26; 5s.; degree courses (full-time) in arts (3 yrs.), £A180; sci. (hons.) (4 yrs.), £A236; sci. (3 yrs.), £A235; sci. (hons.) (4 yrs.), £A315; sci. (appl.) (4 yrs.), £A293; engin. (4 yrs.), £A378; law (5 yrs.), £A338; comm. (3 yrs.), £A198; econ. (3 yrs.), £A198; econ. (hons.) (4 yrs.), £A254.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. approaching completion: geol./geog.; phys.

**RESIGNATIONS.** G. C. Reynolds (engin.), apptd. as lectr., W.Aust.; G. Lethgow (pub. admin.).

**HONORARY DEGREES.** LL.D.—Baron Parker of Waddington, lord chief justice of England. DLitt—Prof. A. Macbenth, visiting prof. of philos.

## Statistics

### STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time	External
Men	603	404	125
Women	271	114	55
Total	874	518	180

Distribution by Faculties: Arts, 511; comm. 213; educn., 262; engin., 135; law, 86; sci., 365  
Total: 1572.

**ACADEMIC YEAR.** March to Dec: 3 teaching terms of 9, 10, 9 weeks respectively, and 1 exam. term of 4 weeks.

**UNDERGRADUATE AWARDS.** 20 entrance scholcs., value £A26 p.a. plus refund cost of books, and travel allowance. Country students eligible to apply for boarding allowance. Up to 135 scholcs. awarded by Cwth. govt. (see p. 12) value payment of fees; living allowance up to £A364 also payable subject to means test.

**POSTGRADUATE SCHOLARSHIPS AND GRANTS.** Res. scholcs., £A800-£A1000, Commonwealth postgrad. scholcs., £A800-£A1000, ICIANZ res. fellowship (from a grant made by the Imperial Chemical Industries of Australia and New Zealand Ltd.), £A1100 p.a.; General Motors-Holdens scholcs., £A800-£A1200 p.a., Australian Tann Products res. fellowship in mong. chem., £A1200.

**APPOINTMENTS BOARD.** Establishment of appts. bd. as provided for by statute, but operations are suspended.

**GRADUATES' ASSOCIATION.** Tasmanian Women Graduates' Asscn.

**STUDENTS' RESIDENCES.** See 'Affiliated Residential Colleges', above.

**STUDENTS' UNION.** Tasmanian Univ. Union.

**PUBLICATIONS.** Univ. Calendar (March, 10s.), *Matriculation Manual* (March, 6s.), *Univ. Handbook* (Oct., 6s.), *Univ. Gazette* (termly); *Univ. of Tas. Law Review* (annually, 10s. 6d.), *Research Report* (annually); students' paper, *Tagatus* (monthly); *Report of 1955 Royal Commission on University of Tasmania*, Govt. Printer, Hobart.

**UNIVERSITY BOOKSHOP.** Controlled by the univ., the bookshop sells texts and gen. books and stationery.

## THE YEAR 1961

Included in the figures above are:—

Postgraduate students, 79.

New admissions, 450.

Students from other countries, 106. (Countries from which largest numbers came: Fiji, 20; Malaya, 20; Hong Kong, 17; Indonesia, 15; Vietnam, 10.)

**DEGREES AWARDED (1961).** Arts: BA, 41; BA hons., 11. Comm.: BCom, 12; BEc, 7; BEc hons., 2. Engin.: BE, 6; BE hons., 2; MEngSci, 2. Law: LLB, 5; LLB hons., 3. Sci.: BFor, 1; BSc, 32; BSc(App), 1; BSc hons., 9; PhD, 3. Total number of first degrees awarded, 105.

**DIPLOMAS AWARDED (1961).** DipEd, 18, DipPubAdmin, 1.

**CERTIFICATES AWARDED (1961).** Educn., 12.

# UNIVERSITY OF WESTERN AUSTRALIA\*

Founded 1911

Postal Address: Nedlands, Western Australia

Cables and Telegrams: Unwest, Perth

Telephone: Perth 86 2481 (11 lines)

VICEROY—H.E. THE GOVERNOR OF WESTERN AUSTRALIA, Lt-Gen. SIR CHARLES H. GARDNER,  
KCMG, KCVO, KBE, CB, Hon DLitt

CHANCELLOR—SIR ALEXANDER J. REID, CMG, ISO, JP, Hon LLD *Melb.* & *Q'ld*, BA, FASA

PRO-CHANCELLOR—T. L. ROBERTSON, PhD *Lond*, MA DipEd

VICE-CHANCELLOR—S. L. PRESCOTT, OBE, MSc *Mans.*

DEPUTY VICE-CHANCELLOR—PROFESSOR C. J. BIRKETT CLEWER, BSc PhD *Lond*, FIP

REGISTRAR—A. J. WILLIAMS, BA DipEd

ACCOUNTANT—R. M. FLETCHER

LIBRARIAN—L. JOLEY, MA *Lond*, FLA

## TEACHING STAFF

[† = Part-Time]

### Agriculture

Underwood, E. J., PhD *Cambr*, BSc(Agric),  
FAA Prof., Dir  
(Soil Sci.) Prof.  
Mullington, A. J., DSc(Agric) Reader  
Schapper, H. P., MSc *N.Z.*, PhD Reader  
Muir, R. J., BSc(Agric) Reader  
Parker, C. A., BSc(Agric) PhD Reader  
Lantern, J. F., PhD *Calif*, BSc Sr Lectr.  
Marsden, R. G., PhD *Leam*, MSc(Agric)  
(Farm Management) Sr Lectr.  
Gladstones, J. S., BSc(Agric) PhD Sr Lectr.  
Somers, M., BSc(Agric) PhD Lectr.  
Nelson, J. S., MSc(Agric) *Notr* Res. Economist  
Parker, M. L., MSc(Agric) Res. Economist  
6 Visiting Lectrs, 1 Lab. Manager, 13 Lab  
Techns, 12 Lab Assts., 9 Tech Assts

Anatomy, see Medicine

Biochemistry, see Medicine

### Botany

Grieve, B. J., MSc *Melb.*, DIC, PhD *Lond*,  
FLS Prof.  
Britton, N. H., BSc PhD *Darb* Sr Lectr.  
Baird, Alison M., MSc Sr Lectr.  
Smith, G. G., MSc (on leave) Lectr.  
James, S. H., MSc *Syd* Lectr.  
Johnson, Mrs Eileen R. L., MA *Tor*,  
BSc *Adel* Temp Lectr.

2 Visiting Lectrs, 1 Demr, 1 Lab Techn,  
3 Lab Assts

### Chemistry

Bayliss, N. S., CBE, BA *Oxon*, BSc *Melb*,  
PhD *Calif*, FRACI, FAA  
(Phys. C.) Prof., Chairman  
White, D. E., MSc *Syd*, DPhil *Oxon*,  
FRACI (Org. C.) Prof.  
Cole, A. R. H., DPhil *Oxon*, BSc,  
FRACI Reader  
Elliott, G. A., MSc PhD *Lond*, FRACI Sr Lectr.  
Jeffries, P. R., PhD *Sheff*, MSc  
(on leave) Sr Lectr  
Bevan, D. J. M., MSc *Melb*, DIC,  
PhD *Lond* (on leave) Sr Lectr  
Bottomley, G. A., BSc PhD *Lond* Sr Lectr.  
Cannon, J. R., MSc *Syd*, PhD *Cambr*, Sr Lectr.  
McLean, A. D., BSc PhD *Calif* Sr Lectr.  
Little, L. H., PhD *Cambr*, MSc Sr Lectr.  
Parker, A. J., BSc PhD Sr Lectr.  
Watts, D. W., BSc PhD Sr Lectr.  
Fergus, B. N., MSc *Syd*, PhD *N.S.W* Sr Lectr.  
Levien, Barbara J., MSc *N.Z* Lectr.  
Hewgill, F. R., MA *Cambr*, PhD *Adel* Lectr.  
Fuller, M. W., PhD *Lond*, BSc Temp. Lectr.  
Badeley, G. V., BSc *Mans*, DPhil *Oxon* Temp. Lectr.  
1 Lab Manager, 7 Grad. Assts., 9 Lab  
Techns., 7 Lab Assts

\* Member of the Association of Universities of the British Commonwealth

**Classics and Ancient History**

Austin, M. N., MA <i>Oxon.</i> , BD <i>Lond</i>	Prof. Reader
Weaver, P. R. C., MA <i>N.Z.</i> & <i>Canb</i> (on leave)	Sr. Lectr
Jones, J. R., MA DipClassArch <i>Canb</i>	Lectr
Jory, E. J., BA <i>Lond</i>	Lectr.
McGushin, P., MA	Lectr
de Hoer, C., BA	Temp. Lectr.
† Lectr	

**Dental Science**

Sutherland, K. J. G., MB BS MDS <i>Canb.</i> , FDSRCSed	Prof. Reader
Taylor, R. L., MDS <i>Syd</i>	Reader
Cock, D. J., MDS <i>Canb</i>	Reader
Lewis, A. J., DDS <i>Northwestern</i> , BDS	Sr Lectr
Stevenson, T. S., MDS (on leave)	Sr Lectr
Williamson, J. J., BDS <i>Q'ld</i> , MDS, FDSRCS (on leave)	Sr Lectr
5 Visiting Lectrs, 1 Grad Asst., 2 Techns, 1 Photographer	

**Economics and Commerce**

Bowen, I. I., MA <i>Oxon.</i>	(Econ.) Prof
Lydall, H. F., BA <i>S.A.</i> , MA <i>Oxon</i>	(Comm.) Prof
Downett, W. T., MEd <i>Syd.</i>	Reader
Gentile, J., DPhilSc <i>Univ Econ Inst (Venice)</i> , FRMats (E. Geog.)	Sr Lectr
Harris, Merv, PhD <i>Lond</i> , MA	(on leave) Sr Lectr.
Oxnam, D. W., MA <i>N.Z.</i>	Sr Lectr
Kerr, A. McB., BSc(Econ) <i>Lond</i> , MA PhD	Sr Lectr.
Subramaniam, V., BSc MA <i>Madras</i> , PhD <i>A.N.U.</i> (Govt.)	Sr Lectr
Cook, A., AM PhD <i>Harv.</i> , BA	Sr Lectr
Parker, R. H., BSc(Econ) <i>Lond</i>	Sr Lectr
Leung, N. F., BA <i>Canb.</i>	Sr Lectr.
Peters, R. W., BA	Lectr.
George, K. D., MA <i>Waler</i>	Lectr
2 Lectrs	(Geog.) Lectr

**Education**

Sanders, C., PhD <i>Lond</i> , MA DipEd, FBPA	Prof
Gray, R. K., BSc(Ped) <i>McG</i> , MA <i>N.Y.</i> (Phys. E)	Sr Lectr.
Merrilees, D., BSc <i>Syd.</i>	Sr Lectr.
Wheller, D. K., PhD <i>Lond</i> , BA DipEd	Sr Lectr.
Philes, T. A., BA <i>N.Z.</i> , EdB <i>Glas.</i>	Sr Lectr
Adam, R. S., PhD <i>Lond</i> , MA DipEd <i>Syd</i> , MEd <i>Mad</i>	Sr Lectr.
Anderson, A. W., BA <i>Bed</i>	Sr Lectr.
Russell, Miss Gwendoline M., DipPhysEd <i>Lond</i> (Phys. E.)	Lectr
Start, K. B., BSc DipEd <i>Manc.</i> (Phys. E.)	Lectr

**Engineering, see below****English**

Edwards, W. A., MA <i>Canb.</i>	Prof.
King, A., MA <i>Oxon</i>	Reader
Barrows, L. R., MA <i>Sheff.</i>	Sr. Lectr.
Williams, Mrs. Helen B. W., DU <i>Paris</i> , MA <i>Oxon</i> , BA	Sr Lectr.
Bradley, Mrs. Jean D., MA <i>Melb.</i>	Lectr
Seddon, G., BA <i>Melb.</i>	Lectr
Parsons, P. E., MA <i>Canb.</i> , BA	Lectr.
Gibbons, T. H., BA <i>Lond</i> , MA	Lectr.
Gibbon, F. P., BA <i>Not.</i>	Lectr.
King, Alison, MA <i>St Aust</i>	Lectr
Forsyth, R. A., MA <i>Natal</i>	Lectr
1 Lectr †, 1 Sr Tutor	

**French**

Tauman, L., L&L DU <i>Aix-Marseille</i> , DesL <i>Paris</i>	Prof Reader, Hd. of Dept
Randall, Jean, MA DipEd <i>Melb</i>	Sr. Lectr.
Motrow, Christine, DU <i>Toulouse</i> , BA	Sr. Lectr
Wardman, H. W., BA PhD <i>Lond</i>	Sr Lectr Lectr

**Geology**

Prider, R. T., PhD <i>Canb.</i> , BSc, FGS	Prof.
Glover, J. J. E., PhD <i>Calif</i> , BSc	Sr Lectr
Balme, B. E., BSc (on leave)	Sr. Lectr.
Coleman, P. J., BSc PhD	Sr. Lectr.
McCall, G. J. H., DIC, BSc PhD <i>Lond</i>	Sr Lectr
Jeppe, J. F. B., BSc(Eng) PhD <i>Rand</i>	Sr. Lectr
Kay, J. G., BSc	Sr. Lectr.
2 Sr. Demos, 4 Lab Techns., 2 Lab. Assts.	Lectr

**German**

Benn, M. B., MA PhD <i>Lond</i> , BA	Reader, Hd. of Dept.
Wolfe, J. M., BA <i>Berw</i> (on leave)	Lectr
Juengling, C. A., BA	Lectr
Francis, Bianca J., BA (Sci. Lang.)	Lectr

**History**

Alexander, F., BA <i>Melb.</i> , MA <i>Oxon</i>	Prof.
Crowley, F. K., MA PhD <i>Melb.</i> , DPhil <i>Oxon</i>	Reader
Orr, R. R., MA <i>N.Z.</i> , PhD <i>Lond</i>	(Pol.) Sr. Lectr.
Hallam, H. E., MA <i>Canb.</i> , PhD <i>Not.</i> , FRHistS	Sr. Lectr.
Laven, P. J., MA PhD <i>Lond</i>	Sr Lectr.
Marchant, L. R., BA	Lectr.
Brash, J. I. W., BA <i>Oxon</i>	Lectr.
1 Lectr.†	

**Italian**

Vanzetti, F.	Reader † Lectr
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Dwyer, Mary E, BA Oxon. &amp; W.Aust

Temp Lectr.

(Theoret P) Prof

Reader

**Law**Beasley, F R., ED, BA Oxon., LLB Syd,  
LLD Melb

Prof.

Williams, S E., MSc Syd., PhD Brit.,  
FIP

Reader

Breybrooke, E. K., LL.M N.Z. & Col  
Allan, D E., MA Camb

Prof.

Jeffery, P M., MSc PhD

Reader

Edwards, E. J., BA BL Rangos, LLB

Sr Lectr.

Swan, J. B., MSc Melb., PhD

Reader

McCall, I W. P., LLB

Sr Lectr.

Lewin, L. N. D., DIC, PhD Lond., MSc,

FIP

Davies, W. E. D. L., LLB Wales

Sr Lectr.

Anderson, R A., BSc PhD Glas

Sr Lectr.

7 Visiting Lectrs

(on leave) Lectr.

**Mathematics**

Binkers, A. L., AM PhD Prin., BSc

Prof., Chairman

Yock, Elise, BSc

Lectr.

Levey, H. C., BSc MA Melb., PhD Adanc.

(Appl M) Prof

Jarman, P D., DIC, BSc PhD Lond

Lectr.

Silberstein, J P O., BA Melb., PhD Camb

Reader

Maslen, E. N., DPhil Oxon., BSc

Lectr.

Hurley, D. G., BSc MA Melb

Reader

Macklin, W., MSc DipEd Adel., DIC,

PhD Lond

Prabhu, N. U., BA Madr., MA Bom.,

MSc Madc

Thos, H. H., BEE MSc PhD Melb.

Lectr.

Gambien, F., MA Camb., MSc DipEd

Sr Lectr.

1 Lab. Manager, 1 Demr., 1 Sr Techn.,

12 Lab Techns., 3 Lab Assts

Storer, R., MSc Broun., BA BSc DipEd

(on leave) Sr Lectr.

**Physiology, see Medicine, below**

Bowen, E. W., MA BSc Melb.

Lectr.

**Politics, see Hist.**

Wynter, P. E., BA MSc Melb.,

DPhil Oxon.

**Psychology**

Briner, H., PhD Munich

Lectr.

Walker, K. F., MA DipAnth Syd.,

Lectr.

PhD Harv., FIPeS

Prof.

Hume, Beryl, BSc DipEd

Lectr.

Marshall, A. J., PhD Lond., BA, FIPeS

Reader

Falk, W. S., BA Melb.

Lectr.

Taft, R., BA Melb., AM Cw., PhD Calif.,

Lectr.

FIPeS

Reader

Hood, M. J., MSc Lond., BSc

Lectr.

Berndt, R. M., MA DipAnth Syd.,

Lectr.

PhD Lond., FRAI

Reader

Duty, R. L., BSc(EngSc) Paus., PhD Broun

Lectr.

Richardson, A., PhD Lond., BA DCP

Sr Lectr.

2 Tutors, 1 Grad. Asst

Yates, A. J., BA Lau., DipPsych PhD Lond.,

Lectr.

FIPeS

Sr Lectr.

Lawrence, P., MA PhD Camb.

Sr Lectr.

Lumsden, J., BA Syd., MA

Lectr.

Drummond, Grace A., MA Lond., DipEd

Lectr.

Medicine, see below

Melb., BSc

Lectr.

Star, K. H., BA Melb., PhD Lond.

Lectr.

Laveau, P. J., MA BSc

Lectr.

Music

Reas, J., BA DipEd Syd., PhD Prin.

Lectr.

Bownes, A. F., BA DCP

Lectr.

Callaway, F., MusB N.Z., FTCL

Prof.

Jones, T. A., MA Syd., LMus

Sr Lectr.

Tunley, D. E., BMus Durk.

Lectr.

Brumer, M., BA Cape T &amp; Camb.,

Lectr.

BMus Lond., FRCO

1 Sr Tutor, 2 Grad Assts, 2 Lab Techns.,

1 Lab Asst

Reader

**Philosophy**

Grave, S. A., MA N.Z., PhD St.And

Prof

**Social Work**

Hutchings, P A., MA N.Z., BLatt Oxon.

Sr Lectr.

**Zoology**

Franklin, R. L., MA LL.M Melb

Lectr.

Waring, H., MSc Lev., DSc Abund., FAA

Prof.

(on leave) Sr Lectr.

Hodgkin, E. P., BSc Abund., DSc

Reader

Marshall, G. D., MA N.Z.

Lectr.

Kirk, R. L., MSc Broun., DSc

Reader

Kovesi, J. G., BA

Lectr.

Mann, A. R., BSc PhD

Reader

Robinson, R. G., MA Alita.

Lectr.

Shaeld, J. W., MSc PhD

Sr Lectr.

Zwicky, K. T., PhD Zurb.

Sr Lectr.

Finch, Mrs May E., MSc

Lectr.

Packer, W. C., PhD Siau.

Temp Lectr.

2 Sr. Demrs., 3 Grad. Assts., 1 Lab. Manager,

5 Lab Techns., 1 Lab. Asst

**Physics**

Prof.



**ENGINEERING****Civil Engineering**

- Cooper, K. L., MA Oxon., BSc Oxon. & W Aust., MICE Prof  
 Espie, J. R., BE, MIEAust  
 Reynolds, G. C., ME Adel. Sr Lectr.  
 Clegg, B., BE Sr Lectr.  
 Hendros, G., BE PhD Sr Lectr.  
 Massey, P. C., BE Sr Lectr.  
 Silvester, R., BA BE PhD, MIEAust Sr Lectr.  
 Sacks, R., BSc(Surv) Cape T. Sr Lectr.  
 Thomas, S. J. (Drawing) Lectr.  
 Smith, B. G. A., BE Lectr.  
 1 Sr Demr., 5 Lab Techns., 5 Lab. Assts.

**Electrical Engineering**

- Bellings, A. R., BSc(Eng) PhD Lond. Prof  
 Tiplin, K. W., BE, MIEE Reader  
 Bandell, J. H., DIC, MSc(Eng) Lond., BE Sr Lectr.  
 Fall, J. V., PhD Lond., BE Sr Lectr.  
 Leary, B. G., BE N S W., PhD Belf Sr Lectr.  
 Steven, D. H., BE Sheff. Lectr.  
 Mills, J., MEngSc Lectr.  
 Budrika, Z. L., BSc BE Syd Lectr.  
 4 Lab. Techns., 3 Lab. Assts.

**Mechanical Engineering**

- Allen-Williams, D. J. F., MA PhD Camb., MIEAust Prof.  
 Cole, J. A., MSc Manc. Reader  
 Lutz, G. G., BE, MIEAust Sr Lectr.  
 Minchin, R. S., BE Sr Lectr.  
 Phillips, J. R., BMEchE PhD Melb Sr Lectr.  
 Hanks, J., DE Lond. Sr Lectr.  
 Hemmingsway, E. W., DIC, BSc(Eng) Lond. Sr Lectr.  
 Wager, J. G., BE Lectr.  
 1 Visiting Lectr., 6 Lab Techns., 1 Lab. Asst

**MEDICINE****Anatomy**

- Sinclair, D. C., MA Oxon., MD Str. And Prof.  
 Mortimer, K. E., BA S A., MB BS Lond., DipEd Sr Lectr.  
 Blumer, W. F. C., MA BM BCH Oxon. St. Lectr.  
 Glasgow, E. F., MB BCH BAO Belf. Lectr.  
 Wilson, A. S., MB ChB Glas. Temp. Lectr.  
 2 Lab. Techns., 1 Lab. Asst.

**Biochemistry**

- Lagg, J. W. H., DIC, PhD Lond., DSc, FRIC Prof.  
 Oliver, I. T., MSc Melb., PhD Sheff. Sr Lectr.

- Scutt, P. B., MSc Melb & Camb Lectr.  
 Hansen, I. A., BSc PhD Adel Lectr.  
 1 Lectr., 1 Grad. Asst., 3 Lab Techns., 1 Lab. Asst.

**Child Health**

- Macdonald, W. B., MD Melb, FRACP Prof.  
 Lewis, I. C., MD ChB Edu., MRCP Sr. Asst.

**Medicine**

- Saint, E. G., MD BS BSc DASH., FRACP Prof.  
 Lefroy, R. B., MA Oxon., MB BS Melb., MRACP Sr Asst.  
 Joske, R. A., MD Melb., MRACP Sr. Asst.  
 Smyth, J. R., BSc(Eng) MB BS Lond., MRCP Jr Asst.

**Microbiology**

- Stanley, N. F., DSc Adel. Prof.  
 Perret, C. J., MA Camb., PhD Lond. Sr. Lectr.  
 May, J. W., MSc Adel Lectr.  
 Easterbrook, K. B., BSc Brist., PhD A.N.U. Lectr.  
 2 Grad. Assts., 1 Chief Techn., 1 Lab Techn., 4 Lab. Assts.

**Obstetrics and Gynaecology**

- King, G., OBE, FRCS, FRCOG Prof.  
 Martin, J. D., MD Lond. Sr. Asst.  
 .... Jr. Asst.

**Pathology**

- ten Seldam, R. E. J., MD Ley Prof.  
 Barber, R. A., MD Adel., MRACP Reader  
 Walters, N. I. M., MB BS Adel., MRACP Sr Lectr.  
 Kakulas, B. A., MB BS Adel., MRACP Lectr.  
 1 Medical Illustrator, 2 Sr. Techns., 1 Lab. Techn., 4 Lab. Assts.

**Physiology**

- Summons, W. J., BSc MB BS Q'ld., DPhil Oxon. Prof.  
 Collin, R., MSc MB BS Syd., BSc Oxon. Sr. Lectr.  
 Kaldor, I., MD Lond. Sr. Lectr.  
 Morgan, E. H., MB BS Melb., PhD (on leave) Sr. Lectr.  
 4 Lab. Techns., 3 Grad. Assts., 4 Lab. Assts.

**Surgery**

- Lewis, C. W. D., BSc MB MCh Wales, FRCS Prof.  
 Breckin, J. G., MB ChM Lond., FRCS Sr. Asst.  
 Vivian, A. B., MB BS Adel., FRCS Sr. Asst.  
 Wald, M., MB BS Syd., FRCS Jr. Asst.

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE: Dep. Registrars: D. D. Dunn, BA Melb., LL.B., Asst. Registrars: J. A. Crawley, G. A. Bartlett, MA; N. T. Bodycost, BA. Guidance & Appts. Officer: R. Flecker, MSc DCP (on leave). Actg. Guidance & Appts. Officer: J. W. Winfield, BA. Building & Property Officer: C. D. Waters, OBE, MA. Camb. Statistical Officer: L. E. McCarrey, BSc BEc. Sec. of Public Exams: R. J. Gardiner, BA. Sec. of Music Exams: Enid M. Keen. Temp. Student Counsellor: W. W. Petty, BA. Svd. Sub-Accountant: K. V. Benwell. Clerk of Annual Exams & Clerk of Convocation: L. A. W. Richards, BA. Dip. Com. Admin. Officer: M. J. Cherrell Guilfoyle, BA. Lond.

CONSULTANT ARCHITECT: G. Stephenson, MCP M I T, BArch, Lio., FRAIA, FRIBA.

COMPUTER INSTALLATION: Officer-in-Charge: D. W. G. Moore, MA. Camb.

LIBRARY: Dep. Librarian: F. D. O. Fielding, MA. Dnb. Asst. Librarians: G. G. Allan, MA. Over: Barbara M. Hale, MA. NZ. Sr. Cataloguer: H. Kathleen Edmonston, BA.

ADULT EDUCATION: Dir.: T. H. Roberts, MA. Gov., BA. Dep. Dir.: J. Barman, BA. Tutor-Organizer: B. Purke, BA. NZ. Sec.: B. Newton. Librarian: Valerie Lewis, BA.

UNIVERSITY BOOKSHOP: Manager: F. H. Beaumont.

## RESIDENTIAL COLLEGES AND HALLS WITHIN THE UNIVERSITY

ST CATHERINE'S COLLEGE (tel.: 86.3847). For women. Warden—Eva Eden, PhD. Camb.

ST GEORGE'S COLLEGE (tel.: 86.1423). For men. Warden—J. H. Reynolds, MA. Adel. & Oson.

ST THOMAS MORE COLLEGE (tel.: 86.5080). For men. Rector—J. R. Baylen, BA. Dub., PhD. Rome.

CURRIE HALL (tel.: 86.2742). For men. Sr. Fellow—R. Flecker, MSc.

## AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE, St. George's Tce., Perth (tel.: 21.7158), founded 1900. Provides qualifying courses in chem., maths., appl. maths., phys. and geol. for univ. degree. Principal—L. J. Hollis.

SCHOOL OF MINES, Kalgoorlie, W.A. (tel.: Kalgoorlie 80), founded 1902. Provides qualifying courses in chem., geol., maths., appl. maths., phys. for univ. degree. Full 4th & 5th yrs. of course for BEng(Mining). Principal—O. R. A. Hobson, BSc.

TEACHERS' COLLEGE, Claremont, W.A. (tel.: 3.2154), founded 1902. Provides professed courses for BEd and DipEd. Principal—N. G. Traylen, MA. DipEd.

TEACHERS' COLLEGE, Graylands, W.A. (tel.: F4737), founded 1955. Provides professed courses for BEd and DipEd. Principal—W. H. Halliday, MA. DipEd.

WESTERN AUSTRALIAN COLLEGE OF DENTAL SCIENCE, Wellington St., Perth (tel.: 21.2667, 23.2631), founded 1934. Provides some courses for BDSec. Dean—Prof. K. J. G. Sutherland.

## GENERAL INFORMATION

In 1909 the govt. of W. Australia apptd. a royal commission with Sir John Winthrop Hackett, who subsequently became first chancellor of the univ., as chairman. Following the commission's report, the Univ. of Western Australia was endowed by an act of the state legislature which recd. the royal assent on Feb. 16, 1911. The first senate was gazetted on Feb. 13, 1912. Teaching began on March 31, 1913, and the formal inauguration of the univ. took place on Oct. 20, 1913.

At the time of its estab., the univ. had 3 facs.—arts, sci. and engin. Law was added in 1927 and agric., originally a dept. of the fac. of sci., became a sep. fac. in 1937. In 1946 the fac. of dent. sci. was establd., and in 1947 the fac. of educ. (from 1916 till 1947 educ. was under the fac. of

arts). Economics, a dept. of the fac. of arts since 1924, was establd. as a sep. fac. in 1954 and reconstituted as fac. of econ. and comm. in 1961. The fac. of med. was establd. in 1956.

St. George's Coll., the first residential coll. within the univ., which was built and endowed by the Anglican church from funds bequeathed by Sir John Winthrop Hackett, was opened in 1931. A univ. hostel for men students and a women's coll. were opened in 1946. The hostel, renamed in 1961 Currie Hall, is now a hall of residence. The women's coll., renamed in 1959 St. Catherine's Coll., now occupies a new bldg. opened in 1960. St. Thomas More Coll., establd. by the Roman Catholic Church, was opened in 1953.

Perth, the capital city of W. Australia, has a

pop. of 420,000. The univ. serves the whole state of W.A. (pop. 737,000).

**CONSTITUTION** The admin. of the univ. is vested in a senate of 21 members, of whom 6 are nominated by the govt and 7 are *ex-officio* or co-opted members. A second body with mainly elective and revisionary functions is known as convocation. Convocation elects 6 members of the senate. The teaching staff elects a member.

**INCOME (1961)** £A1,509,630 (state govt, 53.5 per cent; Commonwealth govt, 13.8 per cent; other sources, 12.7 per cent).

**FACULTIES AND DEANS.** *Agric.*, Prof. E. J. Underwood; *arts*, Prof. F. Callaway (music), dent 21, Prof. K. J. G. Sutherland; *econ.* & *comm.*, Prof. I. I. Bowen; *educn.*, Prof. C. Sanders; *engin.*, Prof. A. R. Billings (elect. engin.); *law*, Prof. F. R. Beasley; *med.*, Prof. E. G. Saint; *sci.*, Prof. N. F. Stanley (microbiol.).

**LOCATION OF DEPARTMENTS** Dental Coll., Wellington St., Perth (tel. 21.2667); Med. Sch., Victoria Sq., Perth (tel. 23.1321).

**LIBRARY.** 206,791 vols.

**UNIVERSITY PRECINCT.** From 1913 to 1930 the univ. was located in temp. bldgs. in Irwin St., Perth, but following a bequest under the will of Sir John Winthrop Hackett permanent bldgs. were erected on the present site of 165 acres at Crawley-Nedlands on a bay of the Swan estuary about 3 mls. from Perth. A new block of bldgs. for the engin. sch. was opened in 1961 and the 1st stages of new bldgs. for chem. and phys. were opened in 1962. Work is proceeding on new bldgs. for arts and library.

**LABORATORIES.** *Agric.*, anat., biochem., bot., chem., dent., engin., geol., microbiol., pathol., phys., physiol., psychol., zool.

**MUSEUMS.** *Agric.*, bot., pathol., geol., zool.

**FIELD STATIONS.** *Agric.*, bot., zool.

**TEACHING HOSPITALS.** Royal Perth, King Edward Memorial, Princess Margaret, Perth Chest H., Heathcote Reception Home, Claremont Mental, Fremantle Public.

**ADMISSION.** See Appendix III.

**NON-MEMBERS OF THE UNIV.** Students not proceeding to a degree may be permitted to attend lectures in one or more subs. with the approval of the fac. concerned. Any such student who has not matriculated may be required to pass such prelim. exam. as the fac. may direct.

**PUBLIC EXAMINATIONS.** Sch. cert., jr. and leaving; music and art of speech. Sch. cert. exams. held annually in Nov.; pretech. exams. in music and art of speech in May and between Aug. and Dec. For sec. res. 'Adman. and Other Staff', above Address. 3 Howard St., Perth (tel. 21.9088). See also Appendix III.

**FIRST DEGREES.** 3 yrs.—BA pass (4 yrs. for hon.) in classics, econ., Engl., French, German, hist., maths., philos., psychol. and anthropol.;

BSc pass (4 yrs. for hon.), BCom pass; BSc pass (4th yr. for hon.) in anat., biochem., bot., chem., geol., maths., microbiol., phys., physiol., psychol., zool. 4 yrs.—LLB pass and hon., BEd pass and hon., BSc(Agric.) (5th yr. for hon.), BSc(Foa), BSurv pass and hon., BMus pass and hon., 5 yrs.—BDSoc pass and hon., BE pass and hon. in civil, elect., mech., mining engin. 6 yrs.—MB BS.

**HONORS DEGREES.** MA, LL.M., MEd, MEd, MSc, MEngSc, MSc(Agric.), 1 yr. from 1st degree with hon., 2 yrs. from 1st degree pass; MDSoc, 2 yrs. from 1st degree, ME, 3 yrs. from 1st degree pass or hon., DLitt, 5 yrs. from 1st degree, LL.D., 3 yrs. from 1st degree with hon., 5 yrs. from 1st degree pass; DSc, DSc(Agric.), 6 yrs. from 1st degree; DEng, 3 yrs. from 1st degree with hon., 4 yrs. from 1st degree pass; DDSoc, 4 yrs. from 1st degree, PhD (agric., arts, dent., sci., educn., engin., sci. only), 2 yrs. from 1st degree with hon., 3 yrs. from 1st degree pass. In arts and sci. a master's degree cannot be obtained in less than 5 yrs. from matric. All higher degrees involve res. To proceed to master's degree a student must graduate with hon. or pass a prelim. exam. All degrees open to grads. from other recognized univs. Master's degrees and the PhD are supervised degrees.

**HONORARY DEGREES.** The senate on the recommendation of the honorary degrees cttee may confer any of its degrees as an honorary degree.

**EXTERNAL DEGREES.** Only BA may be taken wholly externally (most of the univs. for BEd, BEc may also be taken) but only by residents of W. Australia who live outside Perth metropolitan area and in special circumstances by students who have done a major portion of their course and have gone to live in another state. Enrolment is restricted almost entirely to non-lib. subs. except for lab. subs. taken at affiliated univs., e.g. Sch. of Mines, Kalgoorlie. Tuition is given by correspondence and a calculating library service.

**EVENING OR LATE AFTERNOON CLASSES** are held for first degrees in the facs. of arts, econ. & comm. and educn. only, and a full degree course may be undertaken by evg. study. Certain sci. and engin. classes may be taken in the evgs. at affiliated colls. but a full degree course is not available by evg. study in these facs.

**DIPLOMAS.** Educn., 1 yr. postgrad.; child and aducl. psychol. (DCP), 2 yrs.; clin. psychol. (DCP), 3 yrs.

**RESEARCH.** Postgrad. res. is carried out in most depts and £A62,250 was provided for this purpose by the univ. res. grants cttee. In addition in 1961 £A122,209 was obtained from outside sources for res. Reports published annually.

**STUDY LEAVE.** At the end of every 6th yr. of continuous service, staff are entitled to study leave up to a max. of 12 mos. on full pay for a programme of study approved by the senate. The senate may also grant up to 6 mos' study leave after 3 yrs' continuous service.

**Fees.** Matric, no fee. *Ad eundem statum*, £A1. 15. Admission to degrees: bachelors, £A5; master's and PhD, £A10; other doctor's degrees, £A25. Fees are charged per unit except in professional fees. Approx fees are: arts, econ & comm, educn and law—1st yr., £A70, subsequent yrs £A51-£A72, sci—1st yr., £A86, subsequent yrs, £A57-£A81, engin, agric—1st yr., £A79; subsequent yrs, £A74; med., dent sci—1st yr., £A79, subsequent yrs, £A99. Students coming from overseas and neither normally nor likely to become permanently resident in Australia are charged an annual fee of £A20, in addition to all charges normally payable by W. Australians except in case of med and dent sci, when the fee is £A10 p a.

**ACADEMIC YEAR** March to Nov three terms of 9, 9 and 8 wks.

**ADULT EDUCATION.** Adult educn, work is controlled by the univ. adult educn. bd, which has its HQ and library in Chancery House, Howard St., Perth. Its activities, which are state-wide and include extension lectures, orchestral concerts, drama, opera and ballet, are carried on in the metropolitan area of Perth as well as in country districts. In assocn. with other interested bodies the bd. runs an annual 'festival of Perth'.

**PRINCIPAL 'OPEN' AWARDS.** Commonwealth govt. scholsh (see p 13), all fees plus living allowance (means test); Hackett bursaries: all fees plus living allowance (means test), govt univ. exhibitions, £A40 or £A20 p a.

**SCHOLARSHIPS FOR GRADUATES.** Commonwealth scholsh, value £A700-£A850, tenable 1 yr., may be renewed to a max. of 4 yrs. (see p. 13). G.M.H. scholsh. (a), value £A800-£A1200, tenable for 1 yr., in engin, sci and comm.; I.C.I.A.N.Z. scholsh., value £A100 p a., tenable for 2 yrs., in chem. or selected field.

**GUIDANCE AND APPOINTMENTS OFFICE.** Assists undergrads and grads. to obtain employment, permanent or for vacations, also assists undergrads with personal problems.

**STUDENTS RESIDENCE.** St. Catherine's Coll., 49 women; £A200 p a. St. George's Coll., 103

men; approx £A255 p a. St. Thomas More Coll. 65 men, £A207 p a. Currie Hall 150 men; £A5 15s per wk. See also under 'Residential Colleges', above.

**STAFF RESIDENCES.** The univ. owns 49 houses which are let to staff members. In addn. there is a scheme which enables staff members to obtain a loan of up to £A6000 for purchase of a house.

**MILITARY AND AIR FORMATIONS.** Univ. regiment (tel. 1-3666), univ. air squadron (tel. 86 3095).

**STUDENT ORGANISATION.** The student organisation is known as the guild of undergrads and the student bdg. which forms part of the Hackett memorial bldg. is known as Hackett Hall. Annual sub. to the guild is £A8 17s, but in first yr. students pay an extra £A1. 1s registration fee. Pt-time and external students pay a proportionate fee.

**ATHLETIC ACTIVITIES, ETC.** Three sporting ovals, lawn tennis courts, hockey and basket-ball grounds and a beach. There are 2 open-air theatres which are used for staging plays, concerts, films, etc., particularly by the adult educn. bd. in assocn. with the 'festival of Perth' enterprises.

**PUBLICATIONS.** *Calendar*, published annually for local and exchange purposes and not for sale, a shortened ed. called the *Handbook* is sold annually for 7s. *Orientation Handbook*, free to new students, *Univ. Gazette*, limited distribution free, *Public Exam Manual*, 6s., *A Guide to the Univ. of Western Australia*, Univ. of W. Aust. Press, 1954, 5s., the *Pelican* (student newspaper). The sci. union is responsible for an annual magazine, *Scope*. Arts union publishes an annual magazine, *Westerly*. Individual publications are undertaken by Univ. of W. Aust. press, and include the *Law Review* (twice yearly, 15s.), *Univ. Studies in History* (occasional) and the *Australian Journal of Higher Education* (annual, 10s. 6d.).

**UNIV. OF WESTERN AUSTRALIA PRESS.** Publishes works of learning, official univ. publications, and such other educn. works as the bd. of management may accept.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** McGillivray Bequest, £A10,000 for estab. of a capital fund for purchase of works of art, the balance for gen. purposes of univ.

(Total value of all benefactions received: £A62,994).

**MAJOR BUILDING DEVELOPMENTS.** Bldgs completed: new engin. sch., new agric wing. Approaching completion: 1st stages of new chem. and phys. bldgs.

**NEW DEPARTMENTS AND CHAIRS.** Chair of comm.

**REIGNATIONS.** N. F. Devlin (most accountant), apptd. bursar, N.E.; I. Hanna (adult educn.); R. Pason (surg.), to private practice; I. Schaffer (hist.), apptd. to chair of hist.; L. E. R. J. Taylor (civil engin.); C. Tyndale-Biscoe (physiol.), apptd. fellow, A.N.U.

**DEATHS.** Dr. R. H. M. Jull (member of senate, 1914-42); Emer. Prof. F. R. E. Maudsloni (prof. of econ., 1941-58).

**HONORARY DEGREES.** D.Litt.—J. T. McMahon, former senate member and hd. of Catholic educn.; W. A. L.L.D.—Sir Ross McDonald, former senate member.

## Statistics

STUDENT NUMBERS, 1962  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1695	1229
Women	459	445
Total	2154	1674

Distribution by Faculties: Agric., 130; arts, 1616; dent sci, 84; econ. & comm., 234; educ., 295; engin., 308; law, 129; med., 316; sci., 713; soc. (for), 3. Total, 5828

Included in the figures above are —

Postgraduate students, 267

New admissions, 966

Students from other countries, 247 (Countries

from which largest numbers came: Malaysia, 129; Singapore, 31; Hong Kong, 22; Borneo and Sarawak, 15; Indonesia, 10; Vietnam, 7; Thailand, 5; India, 4)

DIPLOMAS AWARDED (1961): Agric., BSc(Agric), 9; BSc(Agric) honours, 8. Arts: BA, 144; BA honours, 12; MA, 10. Dent sci: BDS, 3; MDS, 1. Econ. & comm.: BSc, 7; BSc honours, 4. Educ.: BED, 14; BED honours, 7. MEEd, 1. Engin.: BE, 25; BE honours, 12. Law: LLB, 10; LLB honours, 1. Med.: BMedSc honours, 2; MB BS, 28. Sci.: BSc, 27; BSc honours, 42; MSc, 8; DSc, 1. PhD (all facs) 12. Total number of first degrees awarded, 375

DIPLOMAS AWARDED (1961): DipEd, 46; DCEP, 1

University of Sydney: contd from p 208]

Students from other countries, 1273. (Countries from which largest numbers came: Fed. of Malaysia, 404; Hong Kong, 299; Singapore, 209; New Zealand, 63; Indonesia, 39; Fiji, 32; North Borneo, 30; Thailand, 30; U.S.A., 19).

DIPLOMAS AWARDED (1961). Agric.: BAg, 3; BScAgr, 48; MScAgr, 7. Archt.: BArch, 18; MArch, 1; MTCP, 1. Arts: BA, 402; MA, 19. Dent: BDS, 41; MDS, 10; DDSO, 1. Econ.: BEc, 60; MBEc, 5. Educ.: MEd, 13. Engin.:

BE, 108; MEngSc, 6. Law: LLB, 98. Med.: MB, 198; BS, 201; BSc(Med), 20. Mus.: BMus, 1. Sci.: BSc(GenSc), 33; BSc, 203; MSc, 31; DSc, 3; BScFor, 9. Vet sci.: BVSc, 31; MVSc, 3; DVSc, 1. PhD (all facs) 27. Total number of first degrees awarded, 1474

DIPLOMAS AWARDED (1961): DipAgrEc, 2; DipAgrSc, 2; DipAnth, 1; DipEd, 188; DA, 1; DCP, 1; DDM, 1; DDR, 3; DGO, 2; DLO, 1; DO, 1; DPH, 8; DPM, 5; DipNA&Ac, 1; DipPsychol, 2; DipSocStud, 6; DipSocWk, 8; DipTCP, 10

# BASUTOLAND

Pius XII College (p. 122)

BASUTOLAND

# PIUS XII COLLEGE

Founded 1945

Postal Address: P. O. Roma, Basutoland, Southern Africa

Cables and Telegrams: Pocol, Maseru

Telephone: Roma 5

CHANCELLOR—H.E. ARCHBISHOP G. MCGOUGH, DD, Apostolic Delegate to Southern Africa

RECTOR—Very Rev. F. E. BANN, MA Camb.

VICE-RECTOR—Rev. D. TUOHY, BA Rand, MA N.U.I.

REGISTERAR—Rev. Y. M. PÉRON, PhL STL Ott, BA Laval, Postgrad Cert Ed Lond.

BURSAR—Rev. A. HALL

LIBRARIAN—Rev. E. RUCH, LPh STL Greg, DLittPhl SA

ACCOUNTANT—R. DRUMMOND-HAY

## TEACHING STAFF

African Languages		Mathematics	
Teketele, J., BA SA	Lectr.	Uszczepowski, G., DiplIng TH Aachen	Lectr.
Guma, J., MA Cape	Lectr.	Vaidachari, V. C., MSc S Venkat	Lectr.
Botany		Philosophy	
Morgan, D., MSc Durh, FLS	Lectr.	Ruch, Rev. E., LPh STL Greg,	
Ruch, M., LicSciNat Spier	Lectr.	DLittPhl SA.	Lectr.
Koffler, L., DSc Grenoble	Lectr.	Gagné, Rev. J., BA LPh STL Ott	Lectr.
Chemistry		Physics	
Davies, W. G., MSc Cape, PhD R'g.	Lectr.	Bacher, Rev. R., DrRerNat Frib.	Lectr.
Caldow, G. L., DPhil Oxon	Lectr.		
Economics		Political Science	
Bumana, J., MA Stan., EconDrs EH		Stevens, R. P., MA PhD Georgetown	Lectr.
Tilburg	Lectr.	Muth, E., MA Ott	Lectr.
Education		Psychology	
Auger, Rev. G. A., MA STL PhD Ott,		Fahy, Rev. D., MA Oxon. & Fordham,	
UED Tor., BEd O.F.S.	Lectr.	PhL STL Greg.	Lectr.
Van Hight, C., PhD Colo	Lectr.		
Sibus, R. C., BA BEd SA	Lectr.	Sociology	
English		Cahon, Rev. H., MA SA, DSoc Paris	Lectr.
Stewart, J. E., LLB Cape, MA Camb	Lectr.	Van Velsen, S. M. A., DSocSci II Tilburg	Lectr.
Thompson, D., MA Glas.	Lectr.		
Tuohy, Rev. D., BA Rand, MA N.U.I.	Lectr.	Zoology	
Geography		Thelange, T. S., MSc Rhodes	Lectr.
Schmitz, G., PhysGeogD PhD Utrecht	Lectr.	Ghent, R. L., PhD Corn.	Lectr.
Smuts, L. G. A., Drs Utrecht	Lectr.		
History		EXTENSION DEPARTMENT	
McCarthy, Rev. P., MA W Asst.,		Tophee, G.	Lectr.
DPhil Oxon.	Lectr.	Brossard, Rev. G., AgrD SA.	Lectr.
Sylvain, Rev. G., MA McGill	Lectr.		
Canham, E. L., BA Texas, PhD Cal	Lectr.	Chartered Institute of Secretaries	
Trelo, D., BA SA	Lectr.	Armour, J. C. A.	Lectr.

## GENERAL INFORMATION

The coll began in 1945 to work for Catholic higher educn in Africa. 'Statutes' approved by the Sacred Congregation for Seminaries and Univs in 1955 established govt of the coll in a council advised by a senate in all academic matters. The congregation of the Oblates of Mary Immaculate, who also conduct the Univ of Ottawa, Canada, is in charge. Staff, consisting mostly of lay people, and students include a significant number of non-Catholics. This deliberately pursues the fundamental aim of contributing to the African scene, genuine univ objectivity, autonomy and love of truth and, within an atmosphere of tolerance, a Christian mind and Christian values. The coll has been entirely gift-supported.

**FACULTIES AND DEANS** *Arts*, Rev. Fr D. Tuohy (Engl.), *educn*, Rev. Fr G. A. Auger, *sci*, Rev. Fr D. Paby (psychol.); *med sci*, Rev. Fr H. Cabon.

**COLLEGE SITE.** The main site of 108 acres is in Roma valley, 25 miles E. of the territorial capital, Maseru. An over-all development plan exists to provide for a student enrolment of 1000. Present facilities include: central admin block with a wings, a monastery and a men's hostel, power plant, warehouse and garage, dining block, temp arts block; women students hostel, incl chapel; sci block incl physiol., chem, zool. and bot; *lib*, temp library, and lecture theatre, 24 staff houses.

**LIBRARY** 40,000 vols and 150 current periodicals, member of South African, British and American library unions, and inter-library loan service of South Africa.

**ADMISSION.** Minimum entrance requirement is 2nd class matric cert from Jt Matric Bd of South African Univs in Pretoria, or the equivalent.

**FIRST DEGREES** (of Univ of South Africa) Under the agreement of 1950, with the Univ of South Africa, courses are provided for the following degrees of the Univ of South Africa: BA, BA(SS), BSc (3 yrs each).

**DIPLOMAS, ETC.** 2 yrs.—jr sec teachers dipl for High Commission territories, 1 yr.—inter. of Chartered Inst of Secs.

**FEES** Residence and board, £100 per yr of 4 terms; tuition & exam fees average £3. 10s. per course per yr; registration fee, £3. Students Representative Council, £1 per yr, lab. fee £2, per course.

**ACADEMIC YEAR** Early Feb to mid-Nov. 2 terms.

**RESIDENCE** The coll is entirely residential. Halls of residence have been built on the coll. site and provide each student with a separate furnished study-bedroom.

**PUBLICATION** *Prospectus* (free on application to registrar).

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	138	—
Women	35	—
Total	173	—

**Distribution by Faculties** *Arts*, 84, *educn*, 19; *sci*, 50, *med sci*, 5, *others*, 15. Total 173.

Included in the figures above are:—

Postgraduate students, nil.

New admissions, 63.

Students from other countries, 140. (Countries from which largest numbers came: Republic of S.A., 76, Central African Fed., 36; Bechuanaland, 12).

**DEGREES AWARDED** (in assocn with Univ of S.A.) (1961) *Arts*: BA, 10; *Sci*, 3, BA(SS), 2.

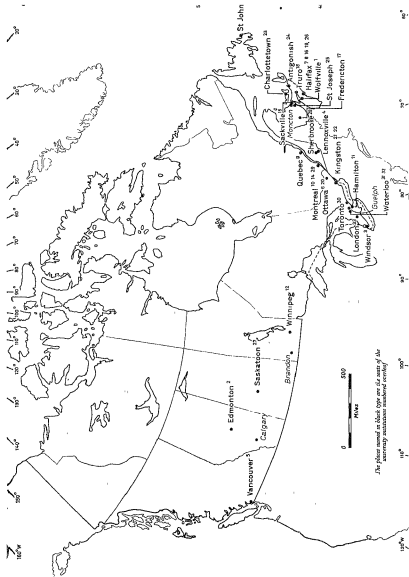
**DIPLOMAS AWARDED** (1961) Univ. educn dipl., 2.





# CANADA

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The figures shown in black type are the names of the  
sampling stations numbered circles.

# THE UNIVERSITIES OF CANADA

[Contributed by Colin M. McDougall, Registrar, McGill University]

**HISTORY** In 1635, the year before the colonists of Massachusetts Bay voted to found what would become Harvard College, the priests of Quebec city, capital of the French colony of Canada, founded the Collège des Jésuites. The Séminaire de Québec, lineal forefather of the mighty Laval University of to-day, was founded in 1663. To this institution the Collège des Jésuites transferred its arts courses in 1765; and from these roots grew the whole vast system of French-Canadian education. One lusty infant of the same parentage, which grew into a giant, was the University of Montreal, established as a 'succursale' of Laval in 1876, and receiving its own charter in 1920. Scores of classical colleges, each attached to one of the universities, were founded over the years, and the French-language institutions even spilled over the provincial frontiers. The Collège de St-Basile, for instance, was established in Manitoba in 1818, the bilingual University of Ottawa in 1848 and St. Joseph's, of New Brunswick, in 1864.

Colleges in the English-speaking tradition came later. For a decade after the conquest of the French colony in the 1760s, the British military shouldered their muskets and tended to military affairs. It was the American revolution which brought English-speaking education to Canada. Streaming north from their absconced colonies came the civilian loyalists, and these men concerned themselves at once with the task of providing education for their children. The first institutions they founded were named, predictably, 'King's' Colleges. King's College, at Windsor, Nova Scotia, was founded by provincial charter in 1789, receiving its royal charter in 1802. The University of King's College is now located at Halifax and is intimately associated with Dalhousie University. In New Brunswick the Provincial Academy of Arts and Sciences became the College of New Brunswick by provincial charter in 1806, receiving its royal charter as King's College, New Brunswick, in 1828. In 1829 this institution became the University of New Brunswick. A third, 'King's College at York' (precursor of the University of Toronto), was founded in 1827. One may reflect how the influence of King's College, New York (which took the name of Columbia University after the revolution), spread to Canada: a group of Anglican clergymen in New York planned King's College, Windsor, while awaiting the ships that would carry them into exile. The loyalists were as devout as they were loyal, not only did they name these colleges for their King, they prescribed for them his religion. Each institution was firmly and fervently

Anglican, and thus the denominational precedence in Canada was firmly established. Only some of the loyalists, and only some of the English-Canadians, of course, were Anglican, and this division was to give rise to bitter disputes.

The universities of Canada may be classified in one of three main groups:

1. Those founded, supported and controlled in varying degree by religious denominations: e.g. Laval, Montreal, Ottawa, St. Francis Xavier, St. Joseph's—Roman Catholic; King's—Anglican; Mount Allison—United Church; Acadia (and, until 1957, McMaster)—Baptist.

2. Those primarily supported by their province, and to some extent subject to provincial control: e.g. New Brunswick, Toronto, Manitoba, Saskatchewan, Alberta, British Columbia.

3. Those independent of church or state (although perhaps denominational at the outset), and at one time dependent upon private benefaction: e.g. Dalhousie, McGill, Queen's, Western Ontario, Carleton.

The Anglican King's Colleges demanded and received financial grants-in-aid from their local and home governments, a privilege at first denied to the other denominations. This engendered considerable strife and bitterness, and the 'college question' became entangled with the current political struggle for responsible government. As quickly as possible the other denominations moved to establish their own institutions. Thus, to cite a few examples: Acadia (Baptist 1838), Queen's (Presbyterian 1841), Victoria (Methodist 1841), St. Francis Xavier (Scotch R.C. 1853), Woodstock College (Baptist 1857, now McMaster), Mount Allison (Methodist 1858).

During these years generations of stern, dedicated clergymen, some of them inspired teachers and educators, others denominational martinetts, came to dominate the Canadian educational scene. For the most part there was nothing 'demish' about these men; they had a hard job of education to do in a new country and they did it well. If the sweet delights of meditation in an Oxford cloister, or the revels of a Heidelberg beer-hall were missing, so were these things from the Canadian landscape itself. They bred *clow* men to live in a clow country: the doctors, lawyers, teachers and fellow-clergymen who had to serve and earn their living in a new country whose very boundaries were unknown. Given the political-governmental background, it is little wonder that denominational battle lines were clearly drawn and bitterly contested.

The only early exceptions to this denominational

emphasis were Dalhousie and McGill. Having seized the sum of £11,000 from the American customs in the war of 1812-14, Lord Dalhousie founded the university bearing his name in 1818. This was in direct protest against the sectarianism and allocation of government support to the King's Colleges, and at Dalhousie registration was opened 'to all occupations and sects of religion'. James McGill left his estate and £10,000 to found McGill College, which received its royal charter in 1828. As a Presbyterian, turned Anglican, who married a Roman Catholic, McGill too deemed that his college should be non-sectarian. To accomplish this purpose one of the first principals, who was also rector of Christ Church in Montreal, had to be dismissed after bitter wrangling. Both these institutions were modelled on the University of Edinburgh pattern. A third institution of the Scottish type was Queen's, at first under Presbyterian control, but later non-sectarian. It is worthy of note that these three universities emphasized the study of science and medicine during the nineteenth century, and attained national prominence in these fields.

The universities of Canada are products of their times and geography. Hence in the early-settled Atlantic provinces, late as poor, there are no fewer than seventeen degree-granting institutions for a population of less than two million. Only three of these receive provincial aid in substantial amounts; and all envy the prodigal support received by universities in the central and western provinces. If poor in relative terms, the Atlantic universities are rich in academic accomplishment. It is these universities which have for the most part produced the presidents and principals of the other universities of Canada.

Quebec and Ontario, with a population of ten million, have fewer universities. In the case of Ontario financial support has been lavish, at least as seen by Maritime eyes; in Quebec, since the recent resolution of the federal-provincial constitutional impasse, support has been generous. The process of consolidation and federation proceeded rapidly in the central provinces after national confederation in 1867. Various subdivisions of Presbyterian and Methodist colleges were united; and larger institutions gathered hosts of small colleges under their wings. The University of Toronto, Canada's largest, is a classic example both of federation and affiliation, containing within itself three universities, and a number of affiliated colleges, as well as perpetuating the names of other superseded precursors.

In the west, the newest section of the country, a new philosophy is evident. Each of the four western provinces, Manitoba, Saskatchewan, Alberta and British Columbia, has its provincial university, and the provinces have decreed that degree-granting powers shall be confined to these provincial universities. All are large (the University of British Columbia is now Canada's second largest in enrolment), flourishing and generously supported by their provinces. All have affiliated or federated colleges. Manitoba began on the

University of London model as an examining and degree-conferring body, and Alberta and Saskatchewan each operate on two campuses (Edmonton and Calgary; Saskatoon and Regina). It is probable, as a result of the population explosion, that institutions such as Brandon College (Manitoba) and Victoria College (British Columbia) will be assigned roles of greater importance in the future. In statistical summary, Canada has forty-seven universities and colleges with degree-conferring powers, more than 300 other institutions offer courses at university level.

The movement in Canada to establish new universities gains additional impetus each year. Four new institutions have been proposed for the province of Quebec; even one for New Brunswick, already so plentifully endowed. In recent years the following new institutions have come into being, or changed to university status: Assumption University of Windsor, Carleton University, Lakehead College of Arts, Science and Technology, Laurentian University of Sudbury, Osgoode Hall Law School, Royal Military College of Canada, University of Sherbrooke, Sir George Williams University, University of Waterloo, Waterloo Lutheran University, York University. The existing universities will expand, and still more universities will be founded in the years ahead. For the enrolment in 1961-62 of 129,000 students will more than double by the end of the decade.

**CONSTITUTION** In structure Canada's universities range all the way from simple unitary types like, say, St. Dunstan's, based upon one faculty with an enrolment of 426, to a federated and complex giant like Toronto with more than 14,000 students. On the scale between these extremes every size and type of institution is represented. Despite this diversity, however, it is interesting to note that a fairly constant academic standard prevails. One institution will, perhaps by ten per centage points, be less or more exacting than another in entrance requirements, but there is nothing equivalent to the U.S. state university which is required by law to admit any high school graduate of that state. In this particular of relatively uniform standards Canadian universities on the whole more closely resemble those of the United Kingdom than the United States. For the same reason, of course, it is more difficult to pluck out and identify any one as being the Harvard or Oxford of Canada.

Plenary control is exercised in almost every case by a board of governors who reserve to themselves full financial powers, but assign matters of academic concern (including curriculum, standards, degrees, etc.) to a senate or faculty council. The president or principal (and, usually, in this case, the vice-chancellor) is appointed by the board as the university's chief executive officer. The chancellor may, in the case of denominational institutions, be an archbishop; in other cases a retired and distinguished academic; and, in others still, a businessman who acts as chairman of the board. The board itself draws heavily on the

business world, hardly at all upon the academic. Provincial universities will have governmental representatives on the board, the religious will have their clerics, but the most striking feature of all boards is the preponderance of businessmen who govern the universities of Canada. It says much for the urgency and potency of these men that universities have flourished as they have. Inevitable conflicts of interests or convictions between business and academic attitudes have been met head-on and solved, financial management for the most part has been excellent. Still, the academics are calling more urgently each year for a greater voice in university government. (For an interesting debate on this topic see recent issues of the bulletin of the Canadian Association of University Teachers.) The one focal point at which the interests of board, senate and faculty intersect is the president or principal. As a member, and often the sole academic member of the board, and usually also the chairman of senate, he has been likened to a 'narrow isthmus' linking the academic body to its governing head, and the academics would have it that the isthmus needs considerable broadening.

**FRENCH-CANADIAN UNIVERSITIES** Unique in the Commonwealth are the French-Canadian universities, patterned after the French model, and resembling neither those of Great Britain nor the United States. While denying their structural origin from France, it should at the same time be noted that the French-speaking universities have developed distinctively Canadian characteristics of their own. The core of their structure is formed by the numerous *collèges classiques*, each attached to one of the universities, and in aggregate forming the faculty of arts of that university. Study in these *collèges* leads to the degree of BA after an eight-year course, the first four years being at secondary school level, the last four years constituting the *cours collégial*. Yet note the differences between one of these *collèges* and a French *lycée*. The French-Canadian baccalaureate demands one more year of study than its French counterpart; it allows for few curricular choices, and its curriculum differs in many other important respects. This is the distinctively Canadian pattern that has evolved over the centuries, and it will help to remember that the pattern was modelled on the French system before secularization occurred.

There are scores of these *collèges classiques* scattered throughout the province of Québec, at least one in every Roman Catholic diocese. They are mostly residential and are not co-educational, separate colleges existing for girls. Comparing the French-speaking BA to its English university equivalent, it will be seen that it is a 'general BA', offering little specialization and few electives. For this reason, and because instruction is given only in French, transfer into or out of the stream from another academic system is almost impossible. This BA is the primary means of admission to the university proper, considering that the *collèges classiques* constitute the faculty of arts, the BA qualifies the holder for admission to every other

faculty of the university. It is, moreover, the prerequisite for admission to medicine, law, theology, graduate faculty of arts, pharmacy and dentistry.

The second method of admission to university is by attendance at a French-speaking high school. Here there are normally twelve years of schooling, and at the end of the *secondaire* course the student may be admitted to courses in engineering, science, commerce, education, physical education, forestry, agriculture, nursing, physiotherapy and laboratory technique. In each of these cases the student will study toward the baccalaureate in the field concerned. As a rough guide, the *secondaire* course of the French-speaking high schools is considered equivalent to 'O' level in the General Certificate of Education.

The French universities correspond to their English-language counterparts in offering the master's and doctor's degrees at postgraduate level. It is sometimes assumed that the *baccalauréat* is the usual second degree, but this degree, with some exceptions, is conferred only on graduates of a *collège classique*, and is designed to qualify them to teach in a *collège classique*. It involves four dissertations instead of one thesis, and differs in other respects from the usual master's degree. The student coming to a French-Canadian university from another system will, in any event, either work toward a bachelor's degree in his chosen field, or toward the usual postgraduate master's or doctor's degree. Transfers at postgraduate level from the English to the French system are quite usual and can be effected without difficulty.

The foregoing is a simplified account of a complex subject, and for more detailed information the reader is referred to the institutional listings of Laval University (p. 211) and the University of Montreal (p. 269), as well as to some of the publications listed under 'Further Information' on p. 135.

**RELATIONSHIP TO GOVERNMENT** Under the terms of the Canadian constitution, as defined in the British North America Act of 1867, education is assigned to the various provincial governments and not to the federal government. Thus each province has its own department of education, and until recently, apart from running the Canadian Services Colleges and supporting various research activities, the federal government did little more than keep a benign eye on the universities. Since 1952, however, the federal government has recognized the financial needs of the universities as a national responsibility, and hence a federal grant, at present calculated on the formula of \$2.00 *per capita* of provincial population, and divided among institutions according to individual enrolment, has been paid to all universities. To avoid any imputation of governmental interference these payments are remitted to the universities in nine provinces through an incorporated academic body known as the Canadian Universities Foundation (see p. 133). Grants to universities in the tenth province, Québec, are paid by the provincial government which is then reimbursed in an

indirect way by the federal government. In eleven years the government of Canada has paid 166 million of sorely needed dollars to its universities.

Provincial grants, both to provincial and non-provincial universities, vary from generous to scant. One province, for instance (Alberta), allocates 7 per cent of its provincial budget to universities, another (Newfoundland) less than 1 per cent. The most recent survey shows that annual grants to universities ranged from a low of \$195,000 in Prince Edward Island, to a high of \$32,500,000 in Ontario, or, on a per capita basis, from \$190 per student in Nova Scotia to \$2878 per student in Alberta.

Quebec presented a very serious problem of its own. As the guardian of *la science française* in Canada, Quebec has fiercely resisted any encroachment upon its exclusive rights in education. For six years, from 1953 to 1959, the universities of Quebec grew poorer and sadder and more desperate as the shouting war on the subject of provincial autonomy raged between the government of Quebec and the government of Canada. Education belongs to the province, cried the provincial government of that time; hence federal aid is unconstitutional and a violation of provincial rights. While the war raged the universities grew poorer and sadder and more desperate still. Happily to relate, however, a resolution\* was reached in 1959, and in lieu of federal grants the Quebec universities now receive a statutory amount from the province plus generous supplementary amounts for operating and capital costs. In effect, the government of Quebec has accepted the obligation of attempting to balance the budgets of its universities.

**CANADA COUNCIL.** In 1957 the government of Canada set up a Canada Council charged with the task of implementing certain recommendations of the royal commission on national development in the arts, letters and sciences, which had been headed by the Right Honourable Vincent Massey. The announced object of the Canada Council was 'to foster and promote the study and encouragement of, and the production of works in, the arts, humanities and social sciences'. This was a bold and imaginative venture indeed in a country never previously noted for an over-zealous concern with its arts and letters.

To accomplish this purpose the government gave to the council the sum of \$100 million, divided into two funds, the University Capital Grants Fund and the Endowment Fund. The first fund of \$50 million is being spent over a ten-year period in matching grants to universities to help with the erection of buildings in the arts, humanities and social sciences. These grants were offered to ninety-five eligible institutions according to a complicated formula based on provincial population figures in relation to student

enrolment, and they have already been put to extremely productive and effective use.

The second \$50 million, constitutes an endowment fund, the interest on which now yields almost \$3 million per year, and this money is used to accomplish all manner of good works. About \$1 million per annum is expended on a scholarship programme which provides some 600 annual scholarships and grants-in-aid to Canadian students at the postgraduate level. Grants totalling well over \$1 million are awarded each year to orchestras, theatres, ballet and opera companies, universities and various cultural or academic bodies to enable them to maintain or expand their activities. In addition, many individual artists, writers, musicians and scholars receive grants to enable them to complete given projects and to free them for creative work. Imagination has been evident in every phase of the council's activities. Recently, for instance, grants of \$2000 each were made to seven universities to commission sculptures on their campuses—note the dual purpose achieved here, that of beautifying the campus and at the same time enabling the sculptor to practice his art and earn a living. Special grants of up to \$5000 are now being made to university libraries to develop programmes of instruction and research in Asiatic, African and medieval studies.

In the retrospect of only a few short years it seems almost inconceivable that Canada, and especially its universities, ever survived and prospered without the Canada Council.

The chairman of the Canada Council is Lieutenant-Colonel D. B. Weldon, chairman of the board of governors, University of Western Ontario. The vice-chairman is Gérard Filion, and the director is Dr Albert W. Treisman. The address of the Canada Council is 140 Wellington Street, Ottawa, Ontario.

**FINANCE.** The total income of Canadian universities and colleges for the academic year 1960-1961 was approximately \$179,000,000, including net income from ancillary enterprises and also research grants. The chief sources of income and the average proportion of the university budgets derived from these sources are as follows: student fees, 27 per cent; gifts 3 per cent; endowments, 5 per cent; federal grants, 16 per cent; provincial grants, 37 per cent. These averages are far from being representative of individual universities. Thus student fees range all the way from approximately 9 per cent, to 68 per cent, of some of the budgets; gifts range from 0 per cent to 24 per cent; endowments from 0 to 27 per cent; federal grants from 0 to more than 42 per cent; provincial grants from 0 to more than 67 per cent.

**PRE-UNIVERSITY EDUCATION.** In the English-speaking system children usually enter school at the age of six. Attendance is compulsory from

\* This whole problem makes a page of fascinating reading in Canadian history. For an excellent account see Edward F. Shefield's *Canadian Government Aid to Australian Universities' Royalties*.

the age of six to fifteen or sixteen. Approximately two-thirds of the children entering grade I continue into secondary school, and about one-third complete the requirements for a high school leaving certificate at the end of eleven or twelve years. In most provinces secondary schooling follows the composite pattern, although technical schools provide vocational courses in many of the cities.

Secondary schooling ends either at junior or senior matriculation level. As a rough guide, 'O' level in the General Certificate of Education is considered to be equivalent to junior matriculation, and 'A' level equivalent to senior matriculation. The junior matriculation year is grade XI in Newfoundland, Nova Scotia, Quebec and Manitoba; and grade XII in Prince Edward Island, New Brunswick, Ontario and British Columbia. The senior matriculation year is grade XII in Nova Scotia, Quebec, Manitoba, Saskatchewan and Alberta, and grade XIII in Ontario, New Brunswick (occasionally) and British Columbia. The senior matriculation year at school is generally accepted as being equivalent to first year at a university which admits from junior matriculation level.

In French Canada children either attend a high school, in which case the '*deuxième année*' is usually the terminal year of secondary education, or they enter a *collège classique*, already described on p. 129.

**ADMISSION** (see also Appendix III). Except in faculties such as medicine, where the number admitted depends on the available number of clinical places, all applicants who meet the stipulated entrance requirements of a university are admitted. Residential universities, of course, can admit only up to their limit of available rooms; and a few universities are so crowded at present that a small proportion of qualified applicants must be turned away until new buildings and class-rooms are provided. In general, however, applicants who write provincial examinations at the end of their secondary schooling and obtain the required average (usually from 60 per cent. to 70 per cent.) in certain prescribed papers (as detailed in Appendix III) will be admitted. A small, but perhaps notable trend of the future, is the desire of a few universities to limit enrolment and to select the best students out of the total number who apply. McGill, for instance, requires College Entrance Examination Board tests of its Canadian applicants and issues some 'provisional early acceptances' before the provincial examinations have been written. It should also be noted that competition for admission is becoming keener, and in 1961 five universities raised their entrance standards.

For admission to graduate school a first degree with at least 'second-class honours standing' in the subject proposed for the higher degree is usually required. Some graduate faculties will admit a student to a 'qualifying year' if he has good general standing but lacks the necessary prerequisite subjects. Graduates of other universities

throughout the world are admitted if they have equivalent standing.

Instruction is in either English or French, according to the university. A good working knowledge of the appropriate language is essential, and a number of universities require applicants whose mother tongue is not English to submit the English Language proficiency certificate of the University of Cambridge or the University of Michigan. Non-Canadian students should apply as early as possible before the session commences. Canadian immigration authorities will require proof of health and financial competence.

**STRUCTURE OF DEGREE AND DIPLOMA COURSES.** A pass or 'general' first degree is usually conferred after four years of study from junior matriculation, or three years from senior matriculation. The BA normally comprises five full courses each year, science, and especially engineering courses usually considerably more. Examinations are held each session on the work of the year in each course, and 'pass standing' is required in order to be admitted to the subsequent year. In the general degree the student proceeds according to some basic pattern of major, concentration or cognate subjects. The vast majority of Canadian students are registered in general rather than in honours degree courses.

The honours degree usually demands an additional year of study, although this requirement is by no means universal. In honours courses the student may take 'joint honours' in two subjects or concentrate exclusively upon the one chosen subject. Concentration is the keynote of an honours course; the grooming board of the academic banquet is not for the honours student. He dines exclusively from the one academic dish. 'Honours standing' (usually from 65 per cent. up) is required both to enter and to remain in an honours course.

A master's degree demands at least one year of study in certain prescribed courses beyond an honours bachelor's degree, and an acceptable thesis. The PhD requires at least two additional years, prescribed courses, examinations and the presentation of a comprehensive thesis. The work of the postgraduate student is carried out under a specified director of research, and his thesis must indicate some original capacity for research. Proof of competence in German or French, or both, is required, there is usually an oral examination, and sometimes the student must publicly defend his thesis.

Advanced degrees are also awarded in such faculties, colleges or schools as medicine, law, dentistry, social work, library science, etc. A prior period of study in another faculty and, more often, a first degree, is required for admission to these professional faculties, which are usually quite separate and distinct entities from the university's faculty of graduate studies and research.

Diploma courses are usually offered at a lower level than degree courses, although they will sometimes signify a further professional qualification,



in the case, for example, of a diploma course in medicine open only to MD graduates. More usually, however, diplomas are awarded to those who seek lesser qualification in such fields as nursing, physical education, music, agriculture, etc.

**TEACHING STAFF** In 1961-62 there were some 9500 teachers and researchers employed in Canadian universities, ranged among the academic grades, in descending order of rank, of (full) professor, associate professor, assistant professor and lecturer or instructor. Another still more junior grade, not included in the above total, is that of demonstrator, a post which is often filled by post-graduate students. 9500 teachers and 129,000 students represents a student-staff ratio of about 14 to 1.

The main teaching method is the lecture, supplemented by seminars; and in the sciences there are often two hours of laboratory periods for each hour of lectures. In general, university teachers find their own time for research activities, although in some institutions the teaching load will be reduced to make more time available for important research projects. A fairly common pattern of maximum lecture-load is nine hours per week for a full professor, and twelve hours per week for an associate professor. Grants in aid of research are made to individual researchers in about half of the universities, about the same proportion provide funds for travel in connection with research, for publication of papers and for attendance at meetings of learned societies. Sabbatical leave is established policy at only about one-third of the universities. At most of the others, however, leave of absence for research is usually granted, and the salary paid during leave, whether sabbatical or other, is usually about 50 per cent of the full-time salary.

During the past decade salaries have more than doubled, the median for all grades now being about \$8500 per annum. Nearly all universities have adopted minimum salary scales for each of the four grades, and in some cases the medians and averages exceed the minima substantially. The minima in the higher-paying universities (it being understood that some are much lower) are as follows: professor, \$12,000; associate, \$9000; assistant, \$7000; lectures, \$5500.

Tenure is nearly always granted to full professors, and often to associate professors. Pensions and superannuation plans are of all forms and kinds, and in general there is difficulty in transferring a plan from one university to another. This is a complex matter and those coming from abroad are advised to seek individual advice from their university when discussing terms of appointment. (At this time it will be found that only one-third of the universities offer contracts; the others will merely provide a letter of appointment.) More than half of the universities have a fixed pension plan with the amount of the pension running at about 2 per cent of the final salary (or average salary of the last five years) per year of

service. Thus a professor whose terminal salary is \$15,000 and who has served thirty years, should retire with 60 per cent of \$15,000, or \$9000 a year. This will be recognized, of course, as being one of the more felicitous examples. Vacancies are usually filled as a result of private enquiry between universities. The Canadian Universities Foundation, however, now publishes periodic lists of 'Academic Vacancies in Canadian Universities and Colleges', and it is expected, in view of the importance of recruitment in the years ahead, that universities will make wider use of this and every other method.

The majority of Canadian professors have taken their first degrees in Canada. Although some Canadian graduate faculties are very good indeed, by choice, or by gravitation to the world headquarters of an academic discipline, many Canadians pursue their graduate training in the United Kingdom, the United States or Europe. Commonwealth and United States scholars are numerous in the Canadian universities; those from other countries constitute less than 5 per cent. In general, there are no restrictions based on nationality, and good scholars and teachers from all parts of the world are welcomed.

**STUDENTS** A 'university student' in Canada is generally taken to mean one who is in full-time attendance during the regular session extending from September until May. There were 129,000 such students enrolled during the 1961-62 session, and it is interesting to note that, although Canada has only one-third of Great Britain's population, this figure exceeds the total number enrolled in that country. The reason is, of course, that a higher proportion of those in the 'college-age group' (for statistical purposes, the population group aged 18-21) attends university in Canada. The proportion now enrolled is close to 12 per cent., and in the years ahead it is estimated that the figure will increase at least to 20 per cent. Most Canadians, however, would qualify at the 30 per cent. proportion now obtaining in the United States. Several universities, e.g. St. George Williams and Carleton, in addition to their day-time programmes, operate 'evening divisions' which offer degree courses to those who are employed during the day. Others enrol students in extra-mural courses and in summer schools from which degree credit may be obtained. In general, however, the road to a Canadian first degree leads directly through three to five years of regular day-time attendance.

Many universities, especially those in the country or in smaller towns and cities, are completely residential. In the metropolitan universities the majority of students live at home or in lodgings; only a minority live in university residences, and these can seldom accommodate all who apply. Annual tuition fees range from a low of \$150 to a high of \$675 a year, depending on the university and the course concerned (e.g. medicine is high). (Note that these fees are substantially lower than those of private universities in the

United States.) Room and board costs from \$400 to \$800. Other costs will include books and instruments, clothing, entertainment, medical care, travel, etc. This means that the total cost to a foreign student will be about \$1600-\$1800 for one academic year. Such a student may earn part of this cost through summer employment, but jobs during the four or five months of summer vacation are by no means guaranteed. Engineering students are commonly required to complete a minimum period of work in industry before their degrees can be conferred.

Every student body has its representative 'students' council', usually with headquarters in a students' union, which forms a centre for the mass of activities offered to the students at large, and at many universities the students' council exercises a real degree of autonomy in conducting student affairs. The new student is confronted with a dazzling variety of student activities and clubs to choose from, and his bewilderment is not always ended by his dean's admonition that studies must take priority over extra-curricular affairs. Many universities have Greek letter fraternities. Nearly all universities have training units for the three armed services.

Most universities operate a health service, financed from fees, which includes medical treatment and hospitalization. There is usually a student counsellor and/or an adviser for foreign students, a placement service, a lodgings service, a vocational guidance service, etc. The range of 'welfare' services, however, varies widely from one university to another.

The scale of scholarship assistance, and other forms of student aid, has increased strikingly during recent years. The non-Canadian undergraduate will not usually be eligible for an entrance scholarship, but after he has written his first sessional examinations he will compete on equal terms for university scholarships and be eligible for bursary assistance or student aid. Canadian students now receive greatly increased amounts of aid from their province. In 1960-61 Quebec, for example, awarded \$2,350,000 in 'loans-bourses' to a total of more than 3500 students. Ontario awards an automatic scholarship of \$400 to every student who obtains a grade XIII matriculation average of 80 per cent or better. Aid is more meagre in the Atlantic provinces, but the general trend from little to large help is apparent. The principle, at least, is now generally recognized that no talented students should be debarred from university for lack of financial means. One of the most important developments in the next decade may be the provision, through provincial, university and other schemes, of free tuition for every student who can obtain a second-class matriculation average. The federal government has long accepted an obligation to research research, and has therefore provided funds for graduate training. In science and technology such grants have been administered by the National Research Council for almost fifty years, and since 1958 postgraduate awards in the arts, humanities and social sciences have

been made by the Canada Council (see p. 130).

**ACADEMIC YEAR.** The usual academic year runs from the end of September until the middle of May, and is divided into two terms by a two-week break at Christmas.

**VACATION COURSES.** More than thirty institutions offer summer courses for which university credit is granted. These generally extend over a six-week period, from early July to mid-August. Correspondence preparation for credit courses is often required and sometimes correspondence work will follow a summer session. It is possible, although not usual, to earn a degree through attendance at summer courses. Most universities, however, require a minimum period of regular attendance to obtain a degree, e.g. at least two regular sessions of resident study. In addition to credit courses, many universities offer summer programmes of general or cultural interest in such fields as fine arts, music, languages, handicrafts, and some hold advanced seminar courses for specialists in fields such as management, psychology, geography, etc.

**UNIVERSITY EXTENSION.** Most universities offer programmes of extension courses, some for degree credit, some for professional advancement (e.g. chartered accountancy) and some as a community service to the public. In the metropolitan universities it is not unusual to find as many extension students thronging the halls and class-rooms in the evenings as there are regular undergraduates during the day. The provincial universities often include teacher education programmes in their extension division; and in general university extension comprises what is commonly termed 'adult education'. In some centres the cultural life of the community is largely the activity of the university as expressed through its sponsorship of workshops, programmes and other series of events. An interesting feature is the extension service carried to off-campus areas, especially by the provincial universities, whereby mobile libraries visit outlying areas or the privilege of drawing books from the home university library may be offered.

**INTRA-UNIVERSITY ORGANIZATIONS.** The National Conference of Canadian Universities, founded in 1911, voluntarily surrendered its identity in 1958 to two successor organizations known respectively as the National Conference of Canadian Universities and Colleges, and the Canadian Universities Foundation. This reorganization became necessary because the whole assembly of universities, as such, could not administer the federal government grants. The CUF now acts as the executive arm of the NCCUC; it receives and distributes to universities the federal grants; from its administrative headquarters in Ottawa it deals with Commonwealth Scholarships, conducts research and issues publications; and in general carries out all projects which are common to the forty-odd member institutions of the conference.

The president of the NCCUC becomes the ex-officio chairman of the CUP; there are twenty-two members appointed to represent groups of institutions divided according to their enrolment. The larger body is thus freed from any administrative concern, and is able to fulfil its primary function as 'the national forum of academic opinion'. The NCCUC meets in plenary session once each year to discuss problems and matters of common interest.

The central office of the CUP includes the important Research and Information Service, which has an extensive library of material on higher education in Canada and abroad, acts as a clearing house for information and publishes studies of problems faced in common by Canada's universities and colleges. In addition, the office includes an International Programmes Division, and a Medical Education Division which constitutes the secretariat of the Association of Canadian Medical Colleges—an associate committee of the CUP.

The chairman of the CUP (and president of the NCCUC) for 1961-62 is the Very Reverend H. F. Lévesque, rector of the University of Ottawa. The executive director is Dr. G. C. Andrew, who succeeded Dr. H. W. Jamieson in 1962. The research officer is Dr. E. F. Sheffield and the Executive Secretary of the ACMC is Dr. J. W. Macleod. The address of the Canadian Universities Foundation is: 75 Albert Street, Ottawa 4, Ontario.

The growth of the Canadian Association of University Teachers has been spectacular during the past ten years. Associations have been formed in thirty-six institutions, and these now represent more than 80 per cent of all full-time teachers in Canadian universities and colleges. A national office was established in 1959 at 77 Metcalfe Street, Ottawa 4, Ontario. The executive secretary is Dr. J. H. Stewart Reid. The CAUT quarterly bulletin reports news and views of the Canadian university scene.

A complete list of university associations and agencies appears in *Canadian Universities and Colleges*, published by the CUP. Others most noteworthy as inter-university organizations are:

*Canadian Association of University Business Officers.* Secretary-Treasurer: Mr. D. S. Claringbold, Hart House, University of Toronto, Toronto 5, Ontario.

*National Federation of Canadian University Students,* 45 Rideau Street, Ottawa, Ontario.

*World University Service of Canada.* General Secretary: Mr. D. Maves, 22 Wilketts Street, Toronto 5, Ontario.

**THE UNIVERSITIES TO-DAY** The problem facing all universities is simple but serious: the inexorable fact is that student enrolment will nearly triple in the decade ahead. Earlier projections of 250,000 students by 1970 now seem underestimates in the light of experience; more likely the present number of 120,000 will increase to more than 300,000 students by the end of the

decade. Experts say that the number of 9500 teaching staff in the 1961-62 session will have to be increased to 25,000 in 1970-71. Physical facilities will have to be expanded proportionately, new buildings and new universities will have to be built. Financial demands on the universities, and the governments who support them, will be staggering. It becomes progressively more expensive to run a university. During the past decade the operating cost per full-time student has more than doubled—from \$700 in 1950-51 to more than \$1500 in 1960-61, and the scale is still rising. The total operating cost of Canada's universities in 1962 is estimated at \$180 million; the experts say this figure may rise to \$420 million in 1965. Capital costs may be gauged by the estimate that in the five-year period ending in 1965 universities will have to spend a total of \$750 million in building programmes. In brief, years of vast expenditure stretch ahead, and the first problem of the universities and the country as a whole is to find the necessary funds. Secondly, there is the urgent problem of training and recruiting the teachers who will be required, and, lastly, the planning and actual execution of the necessary buildings.

Most universities have welcomed the challenge, declaring they will build, recruit and expand to whatever extent may be required. A very few others, however, are thoughtfully assessing the situation, wondering whether they might not lose their cherished, individual characteristics if they expand beyond a certain optimum number, and whether quality might not inevitably be sacrificed to the inordinate demands of quantity. In whatever way each institution squares off to the problem, there is no doubt that the decade ahead will be the most challenging and the most crucial in the history of Canada's universities.

**OTHER INSTITUTIONS OF HIGHER EDUCATION.** In Canada the terms 'higher education' and 'university education' are almost synonymous. Practically all types of professional or general training beyond the level of secondary school are the responsibility of the universities. The education of lawyers is a university function, as is the training of teachers for secondary schools, while the training of teachers for elementary schools, requiring less than degree qualification, is usually supervised by provincial departments of education. Accountants must meet standards set by their governing professional body, but the universities work closely with these bodies, and the accountancy student will often take evening courses at a university under the same teachers who supervise the regular undergraduates programme.

North America has never proved hospitable to the European tradition of training technicians to hold jobs at an intermediate stratum in business and industry. (It would be heresy to consider that a technician, or any employee, could not rise to the presidency of a corporation.) In recent years, however, advances in technology plus an intermittent shortage of technically trained man-

power, has led to the establishment of a number of institutes of technology. There are now more than thirty such post-secondary institutes, all of them administered as integrated parts of provincial technical and vocational training programmes. In total they enrol over 10,000 full-time students. Their distinguishing characteristics are the requirement of junior matriculation for admission, and stress on the application of post-high school mathematics and science. Instruction is in either the engineering-science field, or in the business and service administration field. Graduates of such institutes, whether technical or commercial, are in good demand. This is a relatively new development, and one which may well assume even greater importance in the years ahead.

FURTHER INFORMATION (see also Appendix VI and the 'Publications' section in each university entry below) The Canadian Universities Foundation issues a biennial handbook, *Canadian Universities and Colleges* (latest edition 1962), *University Study in Canada* (a guide for students from other countries), and reports of the proceedings of the annual meetings of the National Conference of Canadian Universities and Colleges. The Dominion Bureau of Statistics publishes an annual *Full Enrollment in Universities and Colleges*, and frequent publications such as *Canadian Institutions of Higher Education, Salaries and Qualifica-*

*tions of Teachers in Universities and Colleges*, etc. The Canadian Universities Foundation publishes frequent research papers such as *Staffing the Universities and Colleges of Canada, Canada's Universities in a New Age, Enrollment in Canadian Universities and Colleges in 1970-71* (1961 projection), *Financing Higher Education in Canada*, etc., etc.

An historical sketch, including a survey of the humanities, will be found in W. Kirkconnell and A. S. P. Woodhouse, *The Humanities in Canada* (1947), currently being revised by F. E. L. Priestley. See also the bibliography published in *Canadian Universities and Colleges of the CUP*, *A Bibliography of Higher Education in Canada*, compiled by R. S. Harris and A. Tremblay, also the list of 'Current Publications' published by the CUP. The *Encyclopedia Canadensis* contains useful articles, especially 'Collèges Classiques' by Maurice LeBel, and 'Universités: Historical Development of English-language Universities' by A. S. P. Woodhouse. See also the annual publication *Répertoire des institutions canadiennes d'enseignement supérieur*, by the Association Canadienne des Éducateurs de Langue Française, Quebec. The bulletins of various bodies and agencies can be extremely useful, and in this regard it is worth noting especially the quarterly bulletins of the Canadian Association of University Teachers.

## DIRECTORY TO SUBJECTS OF STUDY

Source: Research and Information Service, Canadian Universities Foundation

The Table of first degrees (pp. 136-139) indicates which universities offer first-degree programmes (honours and professional) in eighty-one subjects. The symbol ✓ means that a first degree (honours or professional) can be taken in the subject indicated. All the universities listed with the exception of Nova Scotia Agricultural College and Nova Scotia Technical College offer general or pass degree courses in arts and science. The second degree is normally the master's or licence—at least one year beyond the first degree—and the third is the doctorate, usually requiring at least two additional years. The listing below shows which universities offer courses leading to the master's and doctoral degrees in specified subjects and provides additional information about first-degree programmes and diploma courses in certain fields. Where the doctorate is offered, courses leading to the master's degree are also generally available.

**Agriculture** The Nova Scotia Agricultural College offers a two-year diploma course; diploma students may be admitted to the third year of a bachelor's degree course at McGill or Toronto (Ontario Agricultural College, Ontario Veterinary College—Guelph). Master's: Laval, Toronto

(Ontario Agricultural College) Doctorate: Alberta, British Columbia, McGill (Macdonald College), Manitoba, Saskatchewan

**Art Law** Master's: McGill

**Antony** Master's: Alberta, Manitoba, Doctorate: British Columbia, McGill, Ottawa, Queen's, Saskatchewan, Toronto

**Architecture** British Columbia, McGill, Manitoba, Montreal, Toronto

**Astronomy** Master's: Western Ontario Doctorate: Toronto

**Biochemistry** Master's: Dalhousie, Toronto (Ontario Agricultural College—Guelph) Doctorate: Alberta, British Columbia, Laval, McGill, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario

**Botany** Master's: Acadia, Assumption, New Brunswick, Toronto (Ontario Agricultural College—Guelph), Waterloo, Doctorate: Alberta, British Columbia, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario  
[continued on p. 140]

## CANADIAN DIRECTORY TO SUBJECTS OF STUDY (see p. 135) —

For an explanation of the symbols used, see p. 135	Acadia	Alberta	Assiniboia	Buboy's	British Columbia	Carleton	Dalhousie	King's	Level	McGill	McMaster	Manitoba	Memorial	Montréal	Mount Allison	Mount St. Vincent
Agriculture		✓			✓				✓	✓		✓	✓	✓		
Anthropology					✓				✓	✓		✓	✓	✓		
Architecture					✓				✓	✓		✓				
Biochemistry		✓	✓						✓	✓	✓			✓		
Botany	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Business ; Commerce	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Chemistry	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Classics	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Dentistry		✓					✓				✓	✓	✓	✓		
Economics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Education	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓
Engineering, Chemical		✓	✓		✓				✓	✓	✓			✓		
Engineering, Civil		✓	✓		✓	✓			✓	✓	✓	✓		✓		
Engineering, Electrical		✓	✓		✓	✓			✓	✓	✓	✓		✓		
Engineering, Geological					✓				✓		✓	✓				
Engineering, Mechanical		✓	✓		✓	✓			✓	✓	✓	✓				
Engineering, Metallurgical		✓			✓				✓	✓	✓					
Engineering, Mining		✓			✓				✓							
Engineering, Petroleum									✓							
Engineering Physics		✓	✓		✓	✓	✓		✓	✓	✓			✓		
English	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Entomology		✓			✓											
Fine Arts					✓						✓	✓			✓	
Food Chemistry ; Food Technology					✓											
Forestry					✓				✓							
French	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	
Genetics		✓								✓						
Geography		✓			✓				✓	✓	✓	✓		✓		
Geology	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Geophysics									✓							

In addition to the subjects listed in the Table the following are also available: *accountancy*—Montreal, Toronto; *artistic studies*—Toronto; *engineering, aeronautical*—Toronto; *engineering*, Manitoba; *languages*—Level, Montréal; *optometry*—Montréal; *polish*—British Columbia; *public*, British Columbia.

General or pass courses in arts and science are offered by all institutions listed except Nova Scotia listed may be offered by institutions other than those checked as part of programmes leading to

TABLE OF FIRST DEGREES (HONOURS AND PROFESSIONAL)

New Brunswick	N.S. Agricultural Coll.	N.S. Technical Coll.	Ottawa	Queen's	Royal Military	St. Dunstan's	St. Francis Xavier	St. Joseph's	St. Mary's	Saskatchewan	Sharnbrook	Sr. George Williams	Toronto	Waterloo	Waterloo Lutheran	Western Ontario	For an explanation of the symbol used, see p. 125
✓										✓			✓				Agriculture
		✓		✓									✓				Anthropology
				✓									✓				Architecture
				✓						✓			✓				Biochemistry
✓				✓						✓			✓				Botany
✓				✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	Business ; Commerce
✓				✓			✓	✓		✓	✓	✓	✓	✓		✓	Chemistry
✓				✓				✓	✓	✓		✓	✓		✓	✓	Classics
				✓									✓				Dentistry
✓				✓	✓			✓		✓			✓	✓	✓	✓	Economics
✓				✓		✓		✓		✓	✓		✓	✓		✓	Education
✓		✓		✓	✓					✓	✓		✓	✓		✓	Engineering, Chemical
✓		✓		✓	✓					✓	✓	✓	✓	✓		✓	Engineering, Civil
✓		✓		✓	✓					✓	✓	✓	✓	✓		✓	Engineering, Electrical
				✓	✓					✓	✓		✓				Engineering, Geological
✓		✓		✓	✓					✓	✓		✓	✓		✓	Engineering, Mechanical
		✓		✓	✓								✓				Engineering, Metallurgical
				✓									✓				Engineering, Mining
										✓							Engineering, Petroleum
					✓	✓				✓			✓	✓	✓	✓	Engineering Physics
✓			✓	✓	✓			✓	✓				✓	✓	✓	✓	English
													✓				Entomology
													✓				Fine Arts
										✓			✓				Food Chemistry, Food Technology
✓													✓				Forestry
✓			✓	✓	✓			✓	✓				✓	✓	✓	✓	French
				✓	✓					✓			✓	✓	✓	✓	Geodesy
✓			✓	✓			✓			✓			✓			✓	Geography
													✓			✓	Geology
																✓	Geophysics

industrial—Toronto; archaeology—Alberta, Laval; areas studies—British Columbia; audiology—  
 industrial—Toronto, fisheries—Laval; hygiene—Montreal, Icelandic—Manitoba; interior design—  
 administration—Carleton; statistics—Manitoba; surveying—Laval, New Brunswick, theatre—

Agricultural College and Nova Scotia Technical College. In some cases courses in subjects  
 degrees in other fields (continued on next page)

For an explanation of the symbol used, see p. 135	Acadia	Alberta	Assiniboia	Baboy's	British Columbia	Carleton	Dalhousie	King's	Laval	McGill	McMaster	Manitoba	Memorial	Montreal	Mount Allison	Mount St Vincent
German	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
History	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Home Economics	✓	✓	✓		✓				✓	✓		✓		✓	✓	✓
International Studies					✓							✓				
Italian					✓				✓							
Journalism						✓										
Law		✓			✓		✓		✓	✓				✓		
Library Science					✓				✓	✓				✓		
Mathematics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Medicine		✓			✓		✓		✓	✓	✓	✓	✓	✓	✓	✓
Medieval Studies					✓									✓		
Microbiology and/or Bacteriology					✓					✓		✓				
Muse	✓	✓			✓				✓	✓				✓	✓	✓
Nursing		✓	✓		✓		✓		✓	✓				✓	✓	✓
Nutrition														✓	✓	
Pharmacy		✓			✓		✓		✓	✓		✓		✓	✓	
Philosophy	✓	✓	✓	✓	✓	✓			✓	✓				✓	✓	✓
Physical & Health Education		✓			✓		✓	✓	✓	✓	✓		✓	✓	✓	
Physical & Occupational Therapy		✓			✓				✓	✓		✓		✓		
Physics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Physiology		✓			✓					✓						
Political Science		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓		
Psychology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Secretarial Science	✓														✓	✓
Slavonic Studies		✓			✓				✓		✓	✓		✓		
Social Work					✓				✓	✓		✓		✓		
Sociology	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Spanish		✓	✓		✓		✓	✓	✓	✓	✓	✓				
Theology	✓	✓	✓	✓				✓	✓	✓	✓	✓		✓		
Veterinary Medicine														✓		
Zoology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

In addition to the subjects listed in the Table the following are also available: ancient near eastern—Montreal, Toronto, and assyriotic studies—Toronto; engineering, aeronautical—Toronto; engineering, Manitoba, linguistics—Laval, Montreal; *apostrophe*—Montreal; Polish—British Columbia; public British Columbia.

General or pass courses in arts and science are offered by all institutions listed except Nova Scotia. Listed may be offered by institutions other than those checked as part of programmes leading to

TABLE OF FIRST DEGREES (HONOURS AND PROFESSIONAL)

New Brunswick	N.S. Agricultural Coll.	N.S. Technical Coll.	Ottawa	Quebec	Royal Military	St. Denis's	St. Francis Xavier	St. Joseph's	St. Mary's	Saskatchewan	Shedbrook	Sir George Williams	Toronto	Windsor	Waterloo Lutheran	Western Ontario	<i>See an explanation of the symbols used, see p. 125</i>
✓				✓									✓	✓	✓	✓	German
✓				✓									✓	✓	✓	✓	History
				✓			✓	✓					✓			✓	Home Economics
																	International Studies
													✓				Italian
																✓	Journalism
✓				✓						✓	✓		✓			✓	Law
✓				✓			✓					✓	✓		✓		Library Science
				✓						✓		✓	✓	✓	✓	✓	Mathematics
				✓						✓			✓			✓	Medicine
																	Medieval Studies
													✓				Microbiology and/or Bacteriology
								✓		✓			✓			✓	Music
✓				✓			✓			✓			✓			✓	Nursing
										✓			✓				Nutrition
										✓			✓				Pharmacy
✓				✓					✓				✓	✓	✓	✓	Philosophy
✓				✓						✓			✓			✓	Physical & Health Education
													✓				Physical & Occupational Therapy
✓				✓	✓	✓	✓			✓		✓	✓	✓		✓	Physics
										✓			✓				Physiology
✓				✓	✓	✓			✓	✓			✓	✓	✓	✓	Political Science
✓				✓	✓					✓			✓	✓	✓	✓	Psychology
																✓	Secretarial Science
													✓	✓			Slavic Studies
				✓									✓				Social Work
✓				✓						✓			✓		✓	✓	Sociology
													✓	✓		✓	Spanish
				✓	✓				✓	✓	✓		✓	✓	✓	✓	Theology
													✓				Veterinary Medicine
✓				✓			✓			✓	✓	✓	✓	✓		✓	Zoology

shofes—Toronto, archaeology—Alberta, Laval, annu studies—British Columbia, audiology—  
 industrial—Toronto, fisheries—Laval, hygiene—Montreal, jewelry—Manitoba, mirror design—  
 administration—Carleton; statistics—Manitoba; surveying—Laval, New Brunswick, Maine—

Agricultural College and Nova Scotia Technical College. In some cases courses in subjects  
 degrees in other fields



*Business or Commerce Diploma.* Saskatchewan (one year beyond first degree) Master's Assumption, British Columbia, Laval, McMaster, Queen's, Sherbrooke, Toronto Doctorate Montreal, Western Ontario.

*Canadian Studies Master's.* Carleton.

*Chemistry.* Master's: Acadia, Memorial, Mount Allison, St. Francis Xavier, St. Joseph's, Waterloo. Doctorate Alberta, Assumption, British Columbia, Carleton, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, New Brunswick, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario.

*Child Study Diploma.* Toronto (one year beyond first degree)

*Classics Master's.* Acadia, Alberta, Dalhousie, McGill, McMaster, Manitoba, Mount Allison, New Brunswick, Queen's, Saskatchewan, Western Ontario Doctorate British Columbia, Laval, Montreal, Ottawa, Toronto

*Criminology.* Master's. Montreal.

*Dentistry DDS.* see Table (pp. 136-137) Master's. Montreal. Doctorate: Toronto (also offers diploma courses)

*East Asian Studies Master's.* Toronto.

*Economics and/or Political Science Master's.* Acadia, Assumption, British Columbia, Carleton, Dalhousie, McMaster, Manitoba, Memorial, New Brunswick, Saskatchewan, Western Ontario Doctorate Alberta, British Columbia, Laval, McGill, Montreal, Ottawa, Queen's, Toronto

*Education or Pedagogy BEd.* see Table (pp. 136-137) Generally a one-year professional course following BA, but Alberta, British Columbia, McGill, Manitoba, Memorial, Montreal and Saskatchewan offer four-year courses from matriculation. Master's: Acadia, Bishop's, Dalhousie, McGill, Manitoba, Mount Allison, Mount St. Vincent, New Brunswick, St. Francis Xavier, St. Joseph's, St. Mary's, Saskatchewan, Sherbrooke Doctorate Alberta, British Columbia, Laval, Montreal, Ottawa, Toronto.

*Engineering.* In the Atlantic region, the first three years (from junior matriculation) of a five-year bachelor of engineering course are taught at Acadia, Dalhousie, Memorial, Mount Allison, St. Dunstan's, St. Francis Xavier, St. Joseph's, St. Mary's, while the two final years are given at the Nova Scotia Technical College.

*Engineering, Aeronautical.* Master's: Carleton, Laval (aerodynamics) Doctorate: Toronto.

*Engineering, Chemical.* Master's: Laval, New Brunswick, Waterloo, Western Ontario, Doctorate Alberta, Assumption, British Columbia, McGill, McMaster, Montreal, Nova Scotia Technical College, Ottawa, Queen's, Saskatchewan, Toronto

*Engineering, Civil.* Master's: Assumption, Laval, McGill, McMaster, Manitoba, New Brunswick, Saskatchewan, Toronto, Western Ontario. Doctorate Alberta, British Columbia,

Montreal, Nova Scotia Technical College, Queen's, Waterloo

*Engineering, Electrical.* Master's: Alberta, Assumption, Carleton, Laval, McMaster, Manitoba, New Brunswick, Queen's, Saskatchewan Doctorate British Columbia, McGill, Montreal, Nova Scotia Technical College, Ottawa, Queen's, Saskatchewan, Toronto, Waterloo.

*Engineering, Geological.* Master's: Laval. Doctorate British Columbia, Montreal, Queen's, Saskatchewan, Toronto

*Engineering, Mechanical.* Master's: Assumption, British Columbia, Laval, McMaster, Manitoba, New Brunswick, Queen's, Saskatchewan, Western Ontario Doctorate Alberta, McGill, Montreal, Nova Scotia Technical College, Toronto, Waterloo

*Engineering, Metallurgical.* Master's: Laval, McGill. Doctorate Alberta, British Columbia, McMaster, Montreal, Nova Scotia Technical College, Queen's, Toronto.

*Engineering, Mining.* Master's. British Columbia, Laval, McGill, Queen's. Doctorate Montreal, Nova Scotia Technical College.

*Engineering, Nuclear.* Diploma: Queen's

*Engineering, Petroleum.* Master's. Saskatchewan Doctorate Alberta

*Engineering, Physics.* Master's: Laval, McMaster, Manitoba Doctorate British Columbia, Montreal, Queen's, Saskatchewan

*English.* Master's: Acadia, Assumption, Bishop's, Carleton, Dalhousie, McMaster, Manitoba, Memorial, Mount Allison, Mount St. Vincent, Queen's, Saskatchewan, Sherbrooke Doctorate Alberta, British Columbia, Laval, McGill, Montreal, New Brunswick, Ottawa, Toronto, Western Ontario

*Entomology.* Master's: Toronto (Ontario Agricultural College—Guelph). Doctorate Alberta, Carleton, Laval, Manitoba, McGill, Queen's

*Fine Arts.* See Table (pp. 136-137). Nearly all Canadian universities offer some courses in fine arts as options in the BA course. Master's: Toronto

*Fisheries.* Doctorate: British Columbia

*Folklore.* Doctorate: Laval.

*Forestry; Forest Engineering.* Master's: New Brunswick, Toronto Doctorate British Columbia, Laval.

*French.* Master's: Acadia, Carleton, Dalhousie, Laval, McMaster, Manitoba, Mount Allison, New Brunswick, Queen's, Saskatchewan, Sherbrooke. Doctorate Alberta, British Columbia, McGill, Montreal, Ottawa, Toronto, Western Ontario.

*Geology.* Master's: Laval. Doctorate Alberta, British Columbia, Carleton, McGill, Ottawa.

*Geography* Master's Alberta, McMaster, Manitoba, Montreal (*honore*), Western Ontario Doctorate. British Columbia, Laval, McGill, Ottawa, Toronto

*Geology* Master's Acadia, Dalhousie, Memorial, New Brunswick, St Francis Xavier Doctorate Alberta, British Columbia, Carleton, Laval, McGill, McMaster, Manitoba, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario

*German* Master's Acadia, British Columbia, Dalhousie, Laval (*honore*), McGill, McMaster, Manitoba, New Brunswick, Saskatchewan, Waterloo, Western Ontario Doctorate Alberta, Queen's, Toronto

*History* Master's Acadia, Assumption, Bishop's, British Columbia, Carleton, Dalhousie, McMaster, Manitoba, Memorial, Mount Allison, New Brunswick, Saskatchewan, Waterloo Doctorate Alberta, Laval, McGill, Montreal, Ottawa, Queen's, Toronto, Western Ontario

*Home Economics; Household Science* Master's Alberta, Manitoba, Toronto

*Hospital Administration* Diploma: Toronto (two years beyond first degree)

*Icelandic* Master's Manitoba

*Industrial Relations* Doctorate Laval, Montreal

*International Studies* Master's British Columbia, Manitoba

*Islamic Studies* Master's McGill Doctorate Toronto

*Journalism* Diploma three-year course from junior matriculation offered in the School of Journalism of the University of King's College, Mount St Vincent College & St Mary's University. Western Ontario offers a one-year diploma from a bachelor's degree

*Language Schools* At several university summer schools, French-speaking students are given an opportunity to study in an English-speaking environment (Queen's and New Brunswick) and English-speaking students in an all-French one (McGill, Mount Allison, Toronto and Western Ontario) Laval, Ottawa and Montreal offer both types of course

*Languages* In addition to those listed and those included in the Table (see pp 136-139), the following special courses are available: *Arabic*—Toronto; *Chinese*—British Columbia, Toronto; *Gaelic*—St Francis Xavier; *Hebrew*—Alberta, Bishop's, Dalhousie, McMaster, Queen's, Saskatchewan, Toronto, Western Ontario (master's); *Japanese*—British Columbia; *Portuguese*—British Columbia, Toronto

*Law* The practice of law in each province is under the jurisdiction of the Law Society of that province Graduation in law from one of the universities listed in the Table and below is normally accepted as the academic standard for the

province where the school is located In most provinces, a BA is prerequisite for entering the faculty of law Master's British Columbia, Dalhousie, McGill, Manitoba, Western Ontario Doctorate Laval, Montreal, Ottawa, Toronto

*Library Science* BLS see Table (pp 138-139) Master's McGill, Ottawa, Toronto

*Longinus* Master's Alberta, Montreal Doctorate Laval

*Mathematics* Master's Acadia, Dalhousie, Laval, Manitoba, New Brunswick Doctorate Alberta, British Columbia, Carleton, McGill, McMaster, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Waterloo, Western Ontario

*Medieval Studies* Doctorate Montreal, Toronto

*Medicine* MD see Table (pp 138-139) Normal prerequisite is three years in arts or science Master's Queen's Doctorate Alberta, British Columbia, Laval, McGill, Manitoba, Montreal, Ottawa, Saskatchewan, Toronto, Western Ontario

*Meteorology* Doctorate McGill

*Microbiology and Bacteriology* Master's Alberta, Carleton, Dalhousie, Toronto (Ontario Agricultural College—Guelph) Doctorate British Columbia, McGill, Manitoba, Montreal, Ottawa, Queen's, Toronto, Western Ontario

*Munc* Master's Acadia, Laval (*honore*) Doctorate Montreal, Toronto

*Near Eastern Studies, Ancient* Doctorate Toronto

*Nursing* See Table (pp 138-139) A bachelor's degree is conferred for a combined hospital and academic course Master's McGill, Western Ontario

*Nutrition* Master's Alberta, Laval, Manitoba, Montreal Doctorate McGill, Toronto

*Oceanography* Master's British Columbia Doctorate Dalhousie

*Oriental Languages and Literature* Master's Manitoba

*Pathology* Master's Alberta, Dalhousie, Laval, Manitoba, Western Ontario Doctorate McGill, Montreal, Ottawa, Queen's, Saskatchewan, Toronto

*Pharmacology* Master's Dalhousie, Saskatchewan Doctorate Alberta, British Columbia, Laval, McGill, Manitoba, Montreal, Ottawa, Queen's, Toronto, Western Ontario

*Pharmacy* Master's British Columbia, Manitoba, Saskatchewan, Toronto Doctorate Alberta, Montreal

*Philosophy* Master's Assumption, Dalhousie, McGill, McMaster, Manitoba, Mount Allison,

New Brunswick, Saskatchewan. Doctorate: Alberta, British Columbia, Laval, Montreal, Ottawa, Queen's, Toronto, Western Ontario.

*Physical Education* Master's: Alberta, British Columbia.

*Physics* Master's: Acadia, Memorial, New Brunswick. Doctorate: Alberta, Assumption, British Columbia, Carleton, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Waterloo, Western Ontario.

*Physiology* Master's: Dalhousie, New Brunswick. Doctorate: Alberta, British Columbia, Carleton, Laval, McGill, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario.

*Psychiatry* Diploma (two to four years from MD): Dalhousie, Toronto. Master's: British Columbia, McGill, Manitoba. Doctorate: Saskatchewan.

*Psychology* Master's: Acadia, Assumption, Carleton, Dalhousie, Laval (license), McMaster, Manitoba, Montreal, New Brunswick, Saskatchewan. Doctorate: Alberta, British Columbia, McGill, Ottawa, Queen's, Toronto, Western Ontario.

*Public Administration* Master's: Carleton, Toronto. Doctorate: Laval.

*Public Health* Almost all schools of nursing give a one-year course for graduate nurses. Master's: Montreal, Queen's. Doctorate: Toronto.

*Slavonic Studies* Master's: Alberta, British Columbia, Manitoba, Toronto. Doctorate: Montreal, Ottawa.

*Social Work* First degree (BSW or MSW) see Table (pp. 138-139). Generally BA or BSc is prerequisite. Maritime School of Social Work (Halifax) conducts two-year programme; degree is awarded by Acadia, King's, Mount Allison, St. Francis Xavier and St. Mary's. Diploma: McGill. Master's: British Columbia, Manitoba. Doctorate: Montreal, Toronto.

*Sociology and/or Anthropology* Master's: Acadia, Alberta, British Columbia, Carleton, Dalhousie, McGill, McMaster, Manitoba, New Brunswick, Saskatchewan. Doctorate: Laval, Montreal, Ottawa, Toronto.

*Spanish* Master's: British Columbia, Queen's, Western Ontario. Doctorate: Alberta, Laval, Toronto.

*Statistics* Master's: Manitoba. Doctorate: Alberta, Carleton, Toronto.

*Surgery* Master's: Alberta, Laval, McGill, Manitoba, Toronto, Western Ontario.

*Veterinary Science* Doctorate: Toronto (Ontario Veterinary College—Guelph).

*Zoology* Master's: Acadia, Assumption, Memorial, New Brunswick, Toronto, Toronto (Ontario Agricultural College—Guelph), Waterloo. Doctorate: Alberta, British Columbia, Carleton, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Western Ontario.

## B. STATISTICS

[Source: Dominion Bureau of Statistics \*]

**TOTAL STUDENT ENROLMENT.** Full-time university-grade student enrolment in all Canadian universities and colleges as of December 1, 1961 was 128,894 (an increase of 13.1 per cent. over the corresponding figure for 1960). Some 33,124 women were included. The total was divided among faculties as follows: I. *Undergraduate*: arts and letters, 49,332; pure science, 12,215; agriculture, 2091; architecture, 737; commerce and business administration, 7069; dentistry, 1242; education, 12,996; engineering and applied science, 14,631; fine and applied arts, 98; forestry, 756; household science, 1706; journalism, 117; law, 2672; library science, 297; medicine, 4253; music, 467; nursing, 1790; optometry, 126; pharmacy, 1529; physical and health education, 1289; physiotherapy and occupational therapy, 557; secretarial science, 213; social work, 897; theology, 1458; veterinary science, 456; others, 593. II. *Postgraduate*: arts and pure science, 4144; others, 3203.

**STUDENTS FROM OTHER COUNTRIES** 7251 students from other countries were attending Canadian universities and colleges in 1960-61. (For this purpose a 'student from another country' is defined by D.B.S. as one who is temporarily residing in Canada for the purpose of obtaining education. While this definition excludes landed immigrants, some institutions include persons in this latter category. Figures for most European countries are more likely to include some landed immigrants.) The countries of home residence of the 7251 were:—

*North America* Bahamas, 25; Bermuda, 63; St. Pierre & Miquelon, 3; U.S.A., 2362. Total: 2453.

*Asia* Afghanistan, 1; Burma, 16; Cambodia, 13; Ceylon, 24; China, 109; Formosa, 23; Hawaii, 1; Hong Kong, 696; India, 288; Indonesia, 39; Iran, 14; Iraq, 4; Israel, 21; Japan, 87; Jordan, 3; Korea, 10; Laos, 7; Lebanon, 8; Malaya, 42; North

\* The D.B.S. figures quoted in this section cover a rather wider range of institutions than are listed in the Yearbook.

† Students included under 'China' are probably from Hong Kong or Formosa.

Borneo, 22, Pakistan, 88, Philippines, 24, *Saaremaa*, 7, Singapore, 5; Syria, 2, Thailand, 17, Turkey, 6, Viet-Nam, 53. Total 1615.

*West Indies* Anguilla, 1; Antigua, 9; Barbados, 36, British West Indies §, 204, Cuba, 23, Curacao, 2, Dominica, 9, Dominican Republic, 18, Grenada, 15; Haiti, 56; Jamaica, 270, Martinique, 3; Montserrat, 4, Puerto Rico, 6, St Kitts, 7, St Lucia, 16, St Vincent, 3, Tobago, 7; Trinidad, 627, Virgin Islands, 2. Total 1318.

*Europe* Austria, 14, Belgium, 45; Bulgaria, 1, Cyprus, 3, Czechoslovakia, 3, Denmark, 14, Eire, 10, Finland, 1, France, 148; Germany, 82, Greece, 60, Hungary §, 54; Iceland, 1, Italy, 42, Latvia, 3, Malta, 2, Netherlands, 89, Norway, 19, Poland, 9, Portugal, 6, Roumania, 4, Slavic countries §, 12, Spain, 20, Sweden, 4; Switzerland, 21; United Kingdom, 582, unspecified European countries, 2; Yugoslavia, 11. Total 1282.

*Africa* Angola, 1, Basutoland, 2, British East Africa §, 2; Egypt, 35; Ethiopia, 11, Ghana, 36, Kenya, 23, Liberia, 4; Mauritius, 4, Morocco, 7; Nigeria, 49, Portuguese West Africa, 1, Rhodesia & Nyasaland, 9; Sierra Leone, 4, Swaziland, 1, South Africa, 24, Sudan, 1, Tanganyika, 2; Tunisia, 5, Uganda, 4; unspecified African countries, 4; West Africa §, 4. Total 233.

*South America* Argentina, 14; Bolivia, 14, Brazil, 18; British Guiana, 5; Chile, 8; Colombia, 14, Ecuador, 3, Peru, 18, unspecified South American countries, 3, Uruguay, 5; Venezuela, 51. Total 199.

*Central America and Mexico* British Honduras, 6; Costa Rica, 9; El Salvador, 4, Guatemala, 6;

Honduras, 6; Mexico, 33, Nicaragua, 5, Panama, 10. Total 79.

*Oceania* Australia, 31, Fiji, 2, New Zealand, 8. Total 41.

*Country or continent not stated* 31

*DEGREES AND DIPLOMAS AWARDED (1960-61).*  
*Bachelors and first professional degrees* - total of 20,227 (15,030 men, 5197 women) includes equivalent diplomas as, for example, in theology, and honours degrees. Agriculture, 306, architecture, 84; arts, 7614, chiropractic, 28, commerce and business administration (including secretarial science), 1110, dentistry, 179; education (excluding undergraduate or graduate diplomas), 2430, engineering, 2408, fine and applied arts, 11, forestry, 115; home economics, 270; interior design, 9, journalism, 25, law, 697, library science, 199, medicine, 842, music, 88, nursing (excluding undergraduate or graduate diplomas), 302; physiotherapy and occupational therapy, 128; optometry, 28; pharmacy, 281, physical and health education, 245, pure science, 1605, social work (includes BSW and MSW where it is the first degree offered by an institution), 250; theology (includes first degrees and their equivalent only) catholic, 562, protestant, 297, veterinary science, 56, others, 68. *Master and licence degrees* (excluding first professional) master of arts, 1415 (308 women); master of science, 672 (46 women); licence, 367 (126 women). Fields of study (master and licence). biological sciences, 270; engineering and applied science, 217, humanities, 462, physical sciences, 288; social sciences, 1194, not specified, 13. *Dactylates* earned, 305 (26 women). Fields of study: biological sciences, 81, engineering and applied science, 19, humanities, 59, physical sciences, 101, social sciences, 45.

§ Not otherwise specified

|| The majority of these students are from Trinidad and Jamaica

¶ Excludes several hundred Hungarian refugee students. These included were probably refugees

# ACADIA UNIVERSITY\*

Founded 1838, incorporated 1840

Postal Address: Wolfville, Nova Scotia, Canada

Cables and Telegrams: Acadia University, Wolfville, Nova Scotia

Telephone (Registar): Wolfville 3443

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REGISTRAR—RUBY M. THOMPSON, BA

TREASURER AND BUSINESS MANAGER—F. J. ELDERKIN

LIBRARIAN—H. W. GANONG, BA *New Br*, BLS *Tor*

## TEACHING STAFF

(† = Part-Time)

Art and Aesthetics		Education	
Beals, Helen D., BA	Assoc. Prof.	Marshall, M. V., EdD <i>Havr</i> , BA BSc	Prof.
		MacDonald, R., MA BEd	Assoc. Prof.
Biology		Engineering	
Smith, E. C., PhD <i>Havr</i> , BSc	Prof.	Spence, G. D., BSc <i>N.S.T.C.</i>	Prof.
Blenkney, J. S., PhD <i>McG</i> , MSc	Prof.	De Wolfe, E. L., BE <i>N.S.T.C.</i> , BA	Assoc. Prof.
Ellis, Jacqueline, MSc <i>Dal</i> , PhD <i>McG</i> , BSc	Visiting Prof.	Turner, F., BE <i>N.S.T.C.</i>	Assoc. Prof.
Bent, F. C., PhD <i>Corn</i> , BSc	Assoc. Prof.	Parker, R. E., BE <i>N.S.T.C.</i>	Asst. Prof.
Dodds, D. G., PhD <i>Corn</i>	(Wild Life Management) Visiting Prof.		
Chemistry		English Language and Literature	
Small, C. W., MA <i>Tor</i> , BSc	Prof.	Gillon, A., MA <i>Fernalew</i> , PhD <i>Col</i>	Prof.
Linton, E. P., BSc <i>McG</i> , PhD <i>McG</i>	Prof.	Jewitt, A. R., BA Hon. LLD <i>Dal</i> , MA <i>Oven</i> , PhD <i>Corn</i> , Hon. DCL	
Hansen, E. S., PhD <i>Yale</i> , BSc	Prof.	Busch's	Prof.
Cheney, G., MSc <i>Dal</i> , PhD <i>Pitt</i>	Assoc. Prof.	Wanamaker, M., MA <i>Qu</i> , BA BEd	
Classics			(on leave) Assoc. Prof.
Neatby, L. H., MA <i>Sask</i> , PhD <i>Tor</i>	Prof.	Sheriff, J., MA <i>Tor</i>	Assoc. Prof.
		Edwards, Missy J., BA <i>Tor</i> , MA <i>Qw</i>	Lectr.
Economic Science		French, see Romance Language	
Moreau, N. H., PhD <i>Tor</i> , MA <i>Tor</i> & <i>Acad</i>	Prof.	Geology	
Fountain, S., MBA <i>Boston</i> , BA	Assoc. Prof.	Cameron, H., MSc <i>McG</i> , BSc, FGSA	
Connors, J., BA BCom <i>Dal</i>	Assoc. Prof.		Sanders Prof.
Hansen, M., BA <i>Tor</i> , MA <i>Calif</i>	Assoc. Prof.	MacNeill, R., MSc	King Assoc. Prof.
Robinson, B. N., BSc MBA <i>B. Col</i>	Assoc. Prof.	Moore, R. G., BSc <i>W. Ont.</i> , MSc	
		PhD <i>Nich</i>	Assoc. Prof.

\* Member of the Association of Universities of the British Commonwealth

<b>German</b>		Aberdeen, S. W., BS Tusculum, MS Springfield	
Wasson, Mrs. Gertrud, MA McG. & Yale	Asst. Prof.	MacVicar, N. H., BA BEd	Assoc. Prof.
<b>Greek</b>		<b>Physics</b>	
Lumsden, C. B., MM, BD Newton, PhD Yale, BA	Prof.	Magarvey, R., MSc McG., BSc	Prof.
<b>History</b>		Tolson, J. G., BSc Mount, MSc W. Ont.	Prof.
Langley, R. S., AM PhD Harv., Hon LLD McM., BSc, FRSCan	Alumni Prof.	Van der Baaren, D., BSc Indiana, MA Bowdoy	Assoc. Prof.
MacLenn, A. H., PhD Camb., MA	Mark Conry Prof.	<b>Political Science</b>	
MacIntosh, A. W., MA BEd Dal., PhD Tor	Assoc. Prof.	Fraser, D. G. L., MA	Prof.
Embree, J. B., MA Dal.	Asst. Prof.	<b>Psychology</b>	
<b>Home Economics</b>		Grant, Marion E., MA DPhil Tor, LLD New Br., BA	Prof.
MacMillan, Elizabeth, MSc Can., BSc(HEd)	Prof.	Denton, L. R., MA Dal., BA	Asst. Prof.
Wade, Charlotte, BSc Mt. W., MA Col.	Assoc. Prof.	Mori, M., MA Dal., BA	Asst. Prof.
Nowlan, Clara, MS Can., BSc(HEd)	Assoc. Prof.	<b>Romance Languages</b>	
Peck, Mrs. Jean R., BSc(HEd)	† Instr.	Rayki-Kuehler, K., MagPhil Caracas, Diss. Paris	Prof.
Hovitt, Mrs. Katherine, BSc(HEd)	† Instr.	Bendley, C. A., PhD Vienna	Assoc. Prof.
<b>Italian, see Romance Langs</b>		Taylor, Anne J., BA Dal., AM Cal.	Assoc. Prof.
<b>Library Science</b>		Thierstein, Lois, BA Sask., MA, PhD Alab.	Assoc. Prof.
Ganong, H. W., BA New Br., BLS Tor.	Assoc. Prof.	Roden, Lethem, MA PhD Tor	Asst. Prof.
<b>Mathematics</b>		Fraser, Dorothy, MA	Asst. Prof.
Haley, K. D. C., MA PhD Stau	Prof.	<b>Secretarial Science</b>	
Snow, D. O., PhD Qun., MA MSc Brown, BSc	Prof.	Marsh, Jenn, BA W. Ont., AM Col., DiplEd Ont. Coll. of Educ.	Assoc. Prof.
Jeffery, R. L., MA PhD Can., BA Hon DSc Hon. LLD St. M. & Anson	Prof.	Chute, Shirley, BA	Asst. Prof.
Blum, E., PhD Backus	Assoc. Prof.	Kusman, E. B., LLB Dal., BA	† Lectr.
Stroud, T. W. F., MA Tor	Asst. Prof.	<b>Spanish, see Romance Langs</b>	
<b>Music</b>		<b>THEOLOGY</b>	
Collins, E. A., MA MusB Camb., FRCO	Prof.	<b>Biblical Literature and Interpretation</b>	
Kaleja, J.	Prof.	Lovesey, M. R. B., BSc Birm., BD MTh	Prof.
Mayoh, L.	(Voice) Assoc. Prof.	Leid, MA Oron	Prof.
Grosser, E. F.	(Organ) Asst. Prof.	Levy, G. E., MA McG., BD ThD	Assoc. Prof.
Kaleja, Mrs. Felicitas	(Piano) Asst. Prof.	United Theol. Coll. (P. Q.), BA	Assoc. Prof.
McLennan, Miss Phyllis, MusB	(Piano) Asst. Prof.	<b>Church History</b>	
Russell, Martha, BA MusBac Oberlin, MusM Bowdoy	(Piano) Asst. Prof.	Whidden, E. MacD., MA Melb., BD Yale, Hon. DD Pine Hill & McM.	Prof.
<b>Philosophy</b>		<b>Practical Theology</b>	
Lewis, H., MA McG., PhD Montr.	Assoc. Prof.	Merick, E. C., BA Hon DD McM.	Armstrong Prof.
<b>Physical Education</b>		Taylor, C., STM Andover Newton, BA BD	Assoc. Prof.
Kelly, F. G., BA	Assoc. Prof.	Roberts, E.	Lectr.
<b>ADMINISTRATIVE AND OTHER STAFF</b>		<b>Systematic Theology</b>	
Dean of Women: Mrs. Ethel V. Kinsman.		Cherry, M. R., AB Quacita, BD ThD	Prof.
Univ. Physician: H. M. Sumner, MD CM Dal., BSc. Field Representative: J. M. Scott, BA		S. Baptist Theol Sem	
BD. Plant Supt.: R. Roscoe, BSc. Dietitian Elizabeth Stuart, BSc(HEd).			

## ASSOCIATED INSTITUTION

MARITIME SCHOOL OF SOCIAL WORK, Halifax, N.S. (tel. Halifax 3-6907) Founded 1941 Provides 2 yrs' professional tlg. leading to degree of Master of Social Work (MSW) of Acadia for

approved grads. of Acadia and other recog. univs. Dir.—L. T. Hancock, MA Chm. & K.C.N.S., BSW McG

## GENERAL INFORMATION

Founded, as Queen's Coll., in 1838 by the N.S. Baptist Educational Society, Acadia Coll. ('Acadia' is a Latinized form of 'Acadie', the earlier Amerindian name for Nova Scotia) was incorporated in 1840 by act of the N.S. legislature, with the powers of a univ., and the name changed to Acadia Univ. by an act of legislature in 1891. Endowment, \$2,000,000, physical plant, \$8,000,000.

This is a residential univ. in a town of 2400 pop.

**CONSTITUTION** The bd of governors is appointed by the Baptist Convention of the maritime provinces, but the students and faculty are subject to no religious tests. Of the 30 governors, 14 are nominated by the 'associated alumni' of the univ. By the 1840 act of incorporation and subsequent legislative amendments, the bd of governors has authority over all matters of property, finance and discipline, and all appointments of academic or admin. staff. The senate, consisting of pres., provost, deans, chairman of governors, and 12 other persons apptd. by bd. of governors, has final authority over all academic matters including curricula, and grants diplomas and degrees in all depts. and facs. For purposes of routine admin., the bd delegates its powers of discipline to the facs. Curricula and exams are the province of the facs., subject to final confirmation of senate. The pres. is chairman of senate and of the combined facs., and ex officio a member of bd. of governors.

**INCOME (1960-61)** Total operating income, \$1,888,516. Of the non-residential income, the sources were: fees, 50.5 per cent.; federal govt. grant, 23 per cent.; provincial govt. grant, 7.8 per cent.; endowment, 10.5 per cent.; Baptist churches, 2 per cent.; other gifts, 6.2 per cent.

**FACULTIES AND DEANS (1962-63).** Arts & sci., Prof. R. S. Langley (nat.); admin., Prof. M. V. Marshall; engin. (aig.), Assoc. Prof. F. Turner (engin.); Assn. econ., Prof. Elizabeth MacMillan; Agric., Prof. E. A. Collins, Jr.; Prof. E. C. South (biol.); theol., Prof. B. MacD. Whidden (church hist.). Soc. sci. (dir.), Assoc. Prof. Jean Marsh.

**UNIVERSITY PRECINCT.** 100 acres of lawn, park and playing fields have been landscaped over the past century. Some 35 bldgs. have been erected and an architect's master plan projects still others.

**LIBRARY.** 120,000 vols. Sp. collections include Eric Dennis and John D. Logan collections of Canadiana.

**LABORATORIES** Biol., chem., geol., phys.,

engin., home econ. Green-houses and strobilometer. Astronomical observatory.

## ADMISSION See Appendix III

**FIRST DEGREES** BA, BSc—4 yrs from jr. matric. (for honors, 4-5 yrs, 80 per cent. standing and thesis), honors may be taken in biol., chem., econ., Engl., French, geol., hist., home econ., Latin, maths, philos., phys., psychol., sociol., BCom, BTh, BSc(HEC)—4 yrs from jr. matric., BMus—4 yrs from jr. matric. and concert recital.

Limited number of correspondence courses for credit, chiefly at 1st-yr. level.

**HIGHER DEGREES.** MA (can be taken in econ., Engl., French, hist., German, Greek, Latin, maths, psychol., sociol.), MSc (can be taken in biol., chem., geol., maths., phys., psychol.), MMus—1 yr. beyond bachelor's degree, 80 per cent. standing on master's courses, and thesis, BEd—1 yr. beyond BA or BSc, MEd—1 yr. (or 4 summer sessions) and thesis beyond BEd, MSW—2 yrs at Maritime Sch. of Soc. Work (see above) beyond bachelor's degree, BD—3 yrs. and thesis beyond BA.

**HONORARY DEGREES** DCL, DLitt, DSc, DD, MusD.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS** 3 yrs. from jr. matric.—secretarial sci. dipl., 3 yrs. from jr. matric. plus 1 yr. pedagogy—dipl. in educn., 2 yrs. from jr. matric. plus pedagogy—jr. dipl. in educn.

**CERTIFICATES** 3 yrs. from jr. matric.—cert. in appl. sci.; 2 yrs. from jr. matric.—dipl. in sci. in women's leadership tlg. The appl. sci. cert. enables students to enter without exam. into the Nova Scotia Tech. Coll. and the 4th-yr. classes of McGill Univ.'s fac. of engin.

**LICENTIATESHIP** 3 yrs. from jr. matric.—licentiate in music.

**RESEARCH.** An Acadia univ. inst., incorporated in 1956, plans and supervises res. projects for profs. and advanced students. Recent projects have examined economic problems of the adjacent region of N.S.

**STUDY LEAVE.** Members of the faculty may have a year of study leave on half-salary after seven years of service.

**FEES.** Annual tuition (incl. lab. and gen. fees): BA, \$425; MA, \$360; BCom, \$425; BEd, \$425; BSc(HEC), \$430; BMus, \$480; BSc, \$450; MSc, \$380; BTh, BD, \$400; DiplEd,

\$425, LicMus, \$480, EngCurt, \$500, SecSci Dup, \$440

ACADEMIC YEAR Sept. to May a terms of 15 wks each, separated by Christmas vac

SUMMER SCHOOL. Graduate courses of study available for teachers of the province wishing to qualify for the master's degree in education, which is a necessary qualification for academic licence issued by dept of education of Nova Scotia. 4 summer sessions are required as equivalent of 1 full academic yr. All the work for the master's degree must be carried out in one dept. Classes are also offered in undergrad work and to a limited extent in elem. foreign lang.

PRINCIPAL 'OPEN' ENTRANCE AWARDS A no. of scholaps. are open for competition each yr. on the basis of exams of the province of N.S. The univ. also has a no. of bursaries which may be awarded to deserving students. Details in univ. Calendar

GRADUATE SCHOLARSHIPS. Bayne teaching fellowship in biol., \$600 plus fees

EMPLOYMENT. A joint fac-student ctee. co-operates with the placement service of the federal dept. of labour

GRADUATES The grads. of Acadia Univ. have been organized since 1860 as the 'Associated Alumni', with annually elected officers and a paid sec.-treasurer. They edit an official publica., the *Acadia Bulletin* (6 times a yr.), and nominate 14 members to the univ.'s bd. of governors

RESIDENCE (Room and board, \$560 a yr.) For women Dennis House (warden, Mrs.

Ethel V. Kriesman), 152 students, Whitman House (warden, Mrs. B. Stonehouse), 119 students, Seminary House (warden, Mrs. Lillian Hopkins), 100. For men: Memorial House (warden, R. MacDonald), 187, Horton House (warden, G. E. Cheney), 80, Willett House (warden, A. W. MacIntosh), 64, Chapman House (warden, N. H. MacVicar), 118, Evangeline House (warden, F. C. Bont), 70, Blomdon House (warden, J. 70

DEFENCE TRAINING. (a) Acadia univ. naval trg. division Staff officer, Lt. H. L. Cameron. (b) Acadia univ. contingent, C.O.T.C. C.O., Major D. G. L. Fraser. (c) R.C.A.F. (Reserve) detachment Air liaison officer, F/O R. H. MacNeill.

STUDENT HEALTH SERVICE The univ. has its own resident physician, nursing service and hospital wards for men and women

STUDENTS' UNION Union bldg., administered by a student ctee., has a cafeteria, student offices and a reception room

ATHLETIC FACILITIES. Memorial gymnasium with swimming pool, games floor and running track; Raymond field, with facilities for football, baseball, ground hockey and track, univ. rink with artificial ice for ice hockey and skating

PUBLICATIONS. Calendar (Feb., gratis on request); *Students' Year Book* (May); *Athenaeum* (weekly, Oct. to April). Official history: *Acadia University, 1838-1938*, by R. S. Leongley (Wolfville, 1939, o.p.), *Acadia Bulletin* (6 times a year).

## THE YEAR 1961

PRINCIPAL BENEFICIARIES F. C. Manning Charitable Fund, \$55,000 (Total value of all benefactions received \$192,601)

MAJOR BUILDING DEVELOPMENTS Approaching completion, third hall of residence for women.

RYSONICATIONS W. J. Noble (phys.), appd. prof., Mt. All

DEATHS B. N. Cain (dean of engin.)

HONORARY DEGREES DCL—J. E. Read, judge, international court of justice; F. H. Patterson, judge, supreme court of Nova Scotia; H. M. Nelson, provincial dir. educn., Halifax DLitt—H. Hilborn, prof. of Spanish, Qc. DD—H. W. Lang, prof. of N.T., McM., A. J. Langley, clergyman, Moncton, N.B. DSc—A. L. Rind, ornithologist, Chicago nat. hist. museum, C. M. Hallow, prof. of pathol., Dal

## Statistics

STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	690	13
Women	360	20
Total	1050	33

Distribution by Faculties Arts, 354, comm., 99; educn., 39; engin., 133; home econ., 49, music, 27, pure sci., 286, sec. sci., 60; theol., 14.

Included in the figures above are —

Postgraduate students, 12

New admissions, 453

Students from other countries, 108. (Countries from which largest numbers came: U.S.A., 67, Hong Kong, 24; W. Indies, 9)

DEGREES AWARDED (1960-61) Arts, BA, 67; BA. hon., 1; MA, 2 Comm. BCorn, 7, Educn. BEd, 42, MEd, 1, Home econ. BSc (HEC), 5 Music BMus, 2, BA (mus. major), 5 Pure sci. BSc, 38, BSc hon., 8, Sec. sci. MSW, 1 Theol. BTh, 3, BD, 5

DIPLOMAS AWARDED (1960-61) SrDipEd, 9, JrDipEd, 1; LicMus, 2; SecSciDip, 11.

CERTIFICATES AWARDED (1960-61) Engin., 28



UNIVERSITY OF ALBERTA<sup>8</sup>

Founded 1906

Postal Address : Edmonton, Alberta, Canada

Cables and Telephones - VRSs

Telephone (Registry): Geneva 9-4951, Ext. 217

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CHANCELLOR—Judge L. Y. CAIRNS, BA Hon LLD

CHAIRMAN OF BOARD OF GOVERNORS—C. M. Macdon, O.C. Hon. LL.D.

President—W. H. JONES, BA Hon. LL.D. *W. Out.*, Ph.D. *Comm.*

Увсн-Рвсндрнм н—

PRINCIPAL, (CALGARY)—M. G. TAYLOR, MA PhD *Calc.*

PROMOTED AND EXECUTIVE ASSISTANT TO PRESIDENT—A. A. RYAN, MA

DEANS OF FACULTIES—AGRICULTURE—C. F. BENTLEY, PhD *Manag.*, MSc (Soil Sci.), ARHS—D. E. SMITH, MA, QM, PhD *Hort.* (Psychol.), COMMERCE—H. HANMER, MSc PhD *Acctg.*, MA, Tor., BSc.; DENTISTRY—H. R. MACLEAN, DDS, FACD (Ops. Dent.); EDUCATION—H. T. COUTTS, BA Tor., PhD *Manag.*, MA (Educational Admin.); ENGINEERING—G. W. GOVIER, BASc BC Col., Scd *Mech.*, MSc (Chem. Engin.), GRADUATE STUDIES—A. G. MCALLA, PhD *Only*, MSc, FRSCAN; LAW—W. F. BOWEN, QM, LL.M. *Manag.*, BA LL.B. (Jurispr.); MEDICINE—W. C. MACKENZIE, BSc MD CM *Med.*, MSc *Manag.*, PACS, FRSCAN (Surg. & Clin. Surg.); PHARMACY—M. J. HUSTON, PhD *Pharm.*, MSc; SCIENCE—H. S. ARMSTRONG, BA Tor., MA PhD *Chem.* (Geol.)

DIRECTORS OF SCHOOLS—HOUSEHOLD ECONOMICS—ELIZABETH L. EMPLY, PhD *Conn.*, BSc, NURSING—RUTH E. MCCLEURE, MPH *Pa.*, BSc, PHYSICAL EDUCATION—M. L. VAN VLIET, MS *Oregon*, Ed *Calif.*; PHYSICAL AND OCCUPATIONAL THERAPY—J. R. FOWLER, MD

REGISTRAR—A. D. CAHANE, B.A.

LEHRMAN—B. B. PHIL., MA. Soc. Sci., BLS. T. 20.

Bulgaria—J. M. WILSON, BCom

### TEACHING STAFF

[\*=at Calgary, †=Post-Time]

**Accounting.** see Comm

Agriculture, see below

Anatomy, see Medicine

Bacteriology, and Medicine

Biochemistry

Colucci, L. S., PhD McGill, BSc Prof.

Collace, H. B., MA PhD Tey, FRSCan	Prof.
------------------------------------	-------

Tuba, J., MSc Serh., PhD Ter	Prof.
------------------------------	-------

Patterson, A. R. P., MA PhD Br.Col. Prof

Smullie, L. B., BSc *M&M*, MA PhD *Tov*

Assoc Prof.

ness, Mrs. Mary S., BA Sunk.,  
MA, Bann. Mann. Ph.D. Gold. Assoc. Prof.

Key, C. M., BSc *McG*, PhD *Harv.*, Assoc. Prof.  
Campbell, D. L., MS PhD *Purdue*, BSc

Asst. Prof.

McLeod, L. E., MSc McG., BSc MD.

FRCPCan Hon. Lect.

Stewart, A. G., MA Qn., PhD W.Ont.

Hom. Inst.

teaching Assts., 10 Demas., 3 Sec'd.  
Instrs.]

## Botany

Brodie, H. I., MSc Mgmt., PhD Agrib., Prof.

Cornack, R. G. H., MA PhD Top.

FRSCan (on leave) Prof

Whyte, J. H., BSc(Agric) Edin, MSc

PhD *MeG* Prof.

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- Prince, A. R., BA Acad., PhD Harv.,  
BED  
Kennedy, Lorene L., PhD Iowa, MSc  
Assoc Prof  
MacLachlan, G. A., MA Sask., PhD Manit.  
Asst Prof.  
Packer, J. G., BSc Lond  
Asst Prof.  
Bird, C., BSc Majant, MSc PhD Oklahoma  
State  
Mosquin, T., BSc Manit., PhD Calif.  
\*Asst Prof

## Business Administration, see Comm

## Chemistry

- Gunning, H. E., MA PhD Tor Prof  
Brown, R. K., PhD McG, MSc Prof  
Sandin, R. B., PhD Chic, MA, FRSCan Prof  
Crisg, L. H., MA PhD Tor Prof  
Lemieux, R. U., PhD McG, BSc Prof  
Harris, W. E., PhD Manit., MSc Prof  
Davis, S. G., PhD McG, MSc Assoc Prof  
Allen, W. F., BSc W Ont., MA  
PhD Tor, Assoc Prof  
Hyne, J. B., BSc PhD St And \*Asst Prof  
Wallace, W. J., BA Br Col, PhD Purdue  
(on leave) Assoc Prof  
Graham, W. A. G., MA Sask., PhD Harv  
Assoc Prof  
Dunford, H. B., PhD McG, MSc Assoc Prof  
Crawford, R. J., PhD Ill, MSc Assoc Prof  
Freeman, G. R., MA Sask., PhD McG,  
DPhil Oxon. Assoc Prof  
O'Brien, R. N., MASE Br. Col., PhD Manit.  
Asst. Prof  
Adam, F. C., MSc Br. Col., PhD Wash.  
\*Asst. Prof  
Armstrong, D. A., BSc PhD McG. \*Asst. Prof  
Ayer, W. A., BSc PhD New Br. Asst. Prof.  
Dermish, D. E., PhD Calif., BSc Asst. Prof.  
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Forrest, J. F., MA <i>Blatt Glas</i> , AM PhD <i>Cow</i>	Asst. Prof	Bergmann, J. F., MA <i>Texas</i> , AB PhD <i>Calif</i>	Asst. Prof
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Brooks, J., MA <i>New Hampshire</i> , PhD <i>Penn.</i>	*Asst. Prof	Bradsguard, H. M., BS <i>Minu</i> , PhD <i>E T H Zurich</i>	Assoc. Prof
Landblad, W. E., MA PhD <i>Ill</i>	Asst. Prof	Leibekmo, J. F., BSc <i>Br. Col</i> , PhD <i>Calif</i>	Assoc. Prof
Ray, D. E., BA <i>Texas Christian</i> , PhD <i>Rice</i>	*Asst. Prof.	Campbell, F. A., BSc <i>Manit.</i> , MA <i>Qu.</i> , PhD <i>Penn</i>	Asst. Prof
Beisel, H. E., MA <i>Tor</i>	Lectr.	Olivet, T. A., MSc <i>Manit.</i> , PhD <i>Calif.</i>	*Asst. Prof
Challis, Lorna M., BA <i>Duk &amp; Lond</i> , MA <i>Lond.</i>	*Lectr.	Jackson, D. E., BSc PhD <i>Dalh</i>	Asst. Prof
Dougherty, J. P., BA <i>St Louis</i> , MA PhD <i>Penn</i>	*Lectr.	<b>History</b>	
MacIntyre, Jean, BA <i>Byu Manu</i> , MA PhD <i>Yale</i>	Lectr.	Thomas, L. G., PhD <i>Harc</i> , MA	Prof
Taylor, M. J., BA <i>Wales</i>	*Lectr.	Blackley, F. D., MA PhD <i>Tor</i> (on leave)	Prof

**Fine Arts**

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Raton, R. S., MusB <i>McG</i>	(Music) Prof.
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Taylor, J. B.	(Music) Assoc. Prof.
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Yates, E. N.	(on leave) (Art) Asst. Prof.
Robinson, T.	(Music) Asst. Prof.
Buckert, F. F., BEd <i>Sask</i> , AM <i>Cal</i>	(Drama) Asst. Prof.
Stangland, R. A., MusB <i>Minu (Oreou.)</i>	
MusB <i>Rock</i> (on leave)	(Music) Asst. Prof.
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Kiyooka, H. M., BFA <i>Manit.</i> , MA <i>Mich State</i> , MFA <i>Colorado</i> , BEd	*Asst. Prof
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# Industrial Laboratories, see p. 157

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 Assoc. Prof.  
 Cumming, G. L., MA *Sask.*, PhD *Tor.*  
 Assoc. Prof.  
 Vosoff, K., BS *Minn.*, MS *Penn.*,  
 PhD *M.I.T.* Assoc. Prof.  
 Weichman, F. L., BS *Brooklyn*,  
 PhD *Not. Haverhill* Asst. Prof.  
 Krouse, R. H., BSc PhD *McG.* Asst. Prof.

**Physiology, see Medicine, below****Political Economy**

- Hanson, E. J., BA *Qu.*, PhD *Clark*, MA Prof.  
 Garner, W. D., MS *Iowa*, PhD *M.I.T.*, BSc Prof.  
 Davy, G. R., BA *W. Ont.*, PhD *Fletcher* Prof.  
 Goundrey, G. K., BA *Br. Col.*, MA *Tor.*  
 Assoc. Prof.  
 Boenckow, B. R., MA *Mont.*, PhD *Cinc.*  
 Assoc. Prof.  
 Boote, M. J., BA *Wales*, PhD *McG.* Assoc. Prof.  
 Anton, F. R., BSc *Leeds*, MA *Calif.*  
 \*Assoc. Prof.  
 Baird, R. E., BA *Augustana (Ill.)*, MA  
 PhD *Ill.* Asst. Prof.  
 Bauer, M. F., BA *W. Ont.*, MA *Tor.* Asst. Prof.  
 Dawson, W. F., BA *Tor.*, MA *Qu.*,  
 DPhil *Oxon.* Asst. Prof.  
 Powrie, T. L., BSA MA *Sask.*, DPhil *Oxon.*  
 Asst. Prof.  
 Wynch, D. M., BSc PhD *Leeds* Asst. Prof.  
 Mocavick, I., BA *Ohio*, PhD *Indiana* Asst. Prof.  
 Williams, C. G., BA *Wales*, MA *Mont.*,  
 PhD *Virginia* Asst. Prof.  
 Hodges, C. A., MBA PhD *Calif.* Asst. Prof.  
 Wright, R. W., PhD *Mont.*, BCom MA  
 Asst. Prof.

**Psychology**

- Royce, J. R., AB *Dewson*, PhD *Chic.* Prof.  
 Smith, D. E., MA *Qu.*, PhD *Harc.* Prof.  
 Hough, Rev. A. J. B., MA *W. Ont.*,  
 LTh *St. John's (Mont.)* Assoc. Prof.

**CANADA**

- Howarth, E., MSc *Monte*, PhD *Medb*  
 Miles, R. C., MS *Idaho*, PhD *Ohio*  
 Rempel, P. F., BA *Ed Sask*, PhD *Manit*  
 Schonfeld, A., MA *Canb*  
 Spearman, D., MA *McG & Mont*,  
 PhD *Mont*  
 Wilson, Lohita N., MA *Br Col*  
 Uhl, C. N., BA *Stau*, PhD *Oregon*  
 Blanchard, W. A., BA *Sau Francisco*,  
 MA *Oregon*  
 Somner, R., BA *Hobart (N Y)*,  
 MS *Oklaahoma*, PhD *Kansas*  
 Ruk, S. I., BA *Radwaud*, MA *PhD Wash*  
 Asst Prof

#### Russian, see Mod Langs

#### Sociology

- James, R. L., MA *Wayne*, PhD *Oregon*  
 Hembayshi, G. K., MA *PhD Wash*  
 Zentner, H., BA *Br Col*, MA *PhD Stau*  
 Taylor, S., BA *Tor*, PhD *Chic*  
 French, C. L., AM *PhD Wash (Mo.)*  
 Laskin, R., BA *C C N Y*, MA  
 PhD *Penn State*  
 MacCannell, E. H., MA *BSc*  
 PhD *Wash State*  
 Mills, D. L., BA *Idaho*, MA *PhD Stau*  
 Abu-Laban, B. R., MA *Belmont*, PhD *Wash*  
 Hymata, C. A. S., BSc *L C T.A.*, MSc  
 PhD *Conn*  
 Schmutz, M., MA *Tor*  
 Balica, W. V., MA *Kentucky*, PhD *Ohio*  
 Borck, J. T., BA *Ill*, MA *Calif.*,  
 PhD *Oregon*  
 Stein, W. W., AB *Buffalo*, PhD *Conn*  
 Spence, D. L., BA *Long Beach*,  
 PhD *Oregon*

#### Zoology

- Ross, D. M., MA *Del*, PhD *Conn*  
 Moore, J. E., MA *Sask*, PhD *Tor*  
 Hartland-Rowe, C. B. R., BSc *PhD Lond*  
 Nussall, J. R., MA *Sask*, PhD *Wn*  
 Mackee, G. O., MA *DPhil Oacu*  
 Hickman, C. P., BA *DePaul*, MS *New*  
 Hampshire, PhD *Br Col*  
 Holmes, J. C., BA *Manit*, MA *PhD Rice*  
 Levin, V., BA *PhD Calif*  
 Pulli, W. A. L., MA *Sask*, PhD *Wn*  
 Altman, S. A., MA *Calif*, PhD *Haw*

- Anderson, P. K., AB *Conn*, MS *Tulane*,  
 PhD *Calif*  
 Henderson, Nancy E., MSc *Del*,  
 PhD *Tor*

#### AGRICULTURE

##### Agricultural Engineering

- MacHardy, F. V., BE *Sask*,  
 MS *Northwestern*  
 Stephenson, B. T., BE *Sask*

##### Animal Science

- McElroy, L. W., PhD *Calif*, MSc  
 Clendinning, D. R., MSA *Br Col*, PhD *Wn*  
 Robblee, A. R., PhD *Wn*, MSc  
 Bowland, J. P., BSA *Manit*, MS *Wash*,  
 PhD *Wn*  
 Beig, R. T., MS *PhD Manit*, BSc  
 Mendel, V. E., MSc *Idaho*, PhD *Calif*

##### Dairy Science

- Clegg, L. P. L., BSc *Tor*, PhD *DSc Lond*  
 Wood, F. W., MSc  
 de Man, J. M., ChemEng *Amherst*,  
 PhD

##### Entomology

- Hocking, B., BSc *PhD Lond*, MSc  
 Bell, G. E., MS *Alabama*, AB *PhD Conn*  
 Evans, W. G., MS *PhD Conn*

##### Genetics

- Felson, C. O., MA *Sask*, PhD  
 Lessner, K. A., Agronom *Latvia*,  
 LicAgr *Sweden*, DSc  
 Suzuki, D., BA *Amherst*, PhD *Chic*

##### Plant Science

- Coran, W. G., PhD *Tor*, MSc  
 Johnson, L. P. V., PhD *Wash*, MSc  
 Weyer, J., MSc *PhD Gran*  
 Andrew, W. T., MS *Utah State*,  
 PhD *Mich State*, BSc  
 Knowles, R. H., BSA *Tor*, MSc  
 Smith, W. E., PhD *Nebraska*, MSc  
 Zaluk, S., MSc *Manit*, PhD *Purdue*  
 Skaropad, W. P., PhD *Wn*, MSc  
 Res Fellow

##### Soil Science

- Bentley, C. F., PhD *Manit*, MSc  
 Toogood, J. A., PhD *Manit*, BSc  
 Robertson, J. A., MSc *Manit*

Pawluk, S., PhD *Math*, MSc Asst. Prof.  
 Webster, G. R., MSc *Br Col*, PhD *Oregon* Asst. Prof.  
 Moore, A. W., BAgSc *Adel.*, MS Asst. Prof.  
 PhD *Nebraska*

## DENTISTRY

## Dental Science

McMurchy, K. A., BA *Sask*, DDS Prof.  
 MacGregor, D. G., DDS Assoc. Prof.

## Dental Surgery

MacLean, H. R., DDS, FACD (Open D.) Prof.  
 Van Alstine, R. S., MS *Mich*, DDS Asst. Prof.  
 Goldst, S. G., DDS Asst. Prof.

## Paediatric Dentistry

Cusack, C. R., DDS *Tor*, MSD *Northwestern* Prof.

## Preventive and Public Health Dentistry

McPhail, C. W. B., MSD *Northwestern*, BSc DDS Assoc. Prof.

## Prosthetic Dentistry

Fisher, S. D., DDS Prof.

## Restorative Dentistry

Gibb, G. H., BSc DDS Assoc. Prof.  
 Davidson, G. B., BSc DDS *Wash* Assoc. Prof.  
 MacRae, P. D., DDS Asst. Prof.

## School of Dental Auxiliaries

Berry, Margaret H., BSc *Mt All. & Cal* Asst. Prof., Du.  
 2 Assoc. Profs, 4 Asst. Profs, 17 Lectrs.

## ENGINEERING

(See also Industrial Labs. and Res. Council of Alberta, p. 157)

## Chemical and Petroleum Engineering

Glover, G. W., BAgSc *Br Col*, ScD *Mich*, MSc Prof.  
 Robinson, D. B., MAgSc *Br Col*, PhD *Mich* Prof.  
 Dziuchuk, P. M., BSc (on leave) Assoc. Prof.  
 Della Latta, I. G., BAgSc *Br Col*, PhD *Mich*, MSc Asst. Prof.  
 Flock, D. L., MS *Oklahoma*, PhD *Texas Agric* Assoc. Prof.  
 Rutter, R. A., BE MSc *Sask*, PhD Assoc. Prof.  
 Quon, D., ScD *M.I.T.*, MSc Assoc. Prof.  
 Lefebvre, L. U., BChE *Delaware*, MSc *Pitt* Assoc. Prof.  
 Nades, W., MSc *Texas*, Diplng *DPh Vietnam* Asst. Prof.  
 Aziz, K., BSc *Mich & Ala* (on leave) Asst. Prof.

## Civil Engineering

Senclair, S. R., MSc (on leave) Prof.  
 Blench, T., BSc *Glas*, DSc, MICE (Irrigation E.) Prof.  
 Gads, L. E., BSc Prof., Assoc. Deem, Fac. of Engin.  
 Longworth, J., MSc *Ill*, BSc (Appl. Mech.) Prof.  
 Bagg, W. L., BSc (Drawing) \*Assoc. Prof.  
 Preston, W. W., BSc *Que* (Drawing & Descriptive Geom.) Assoc. Prof.  
 Bouthillier, P. H., SM *Harv*, BSc Assoc. Prof.  
 Fowler, E. L., MSc Assoc. Prof.  
 McArthur, H. R., BAgSc *Br Col*, MA *Wash* \*Assoc. Prof.  
 Peterson, A. W., MSc Assoc. Prof.  
 Vesschuren, J. P., B *T H Delft* Assoc. Prof.  
 Sibwell, W. H., BA *Drake*, MA *Tor* \*Assoc. Prof.  
 Murray, D. W., MSc *Lond*, BSc Assoc. Prof.  
 Bakker, J. J., BSc *Glas*, DIC, MSCE *Pitt* Assoc. Prof.  
 Anderson, K. O., BSc Assoc. Prof.  
 Glockner, P., BEng *McG*, MSc *M.I.T.* (on leave) \*Assoc. Prof.  
 Weiswiler, J., MSc PhD *Ill*, BSc Assoc. Prof.  
 Audley, R. W., BA BSc *Que*, MSc Asst. Prof.  
 Simmonds, S. H., MSc (on leave) Asst. Prof.  
 Adams, P. P., Diplng *Eng*, BEng *N.S.W.* Asst. Prof.  
 Hubbert, R. H. B., BAgSc *Br Col*, MSc *Que* \*Asst. Prof.  
 Bason, M. J., MSc *Ill*, BSc Asst. Prof.  
 Brooks, E. W., MSc (on leave) Asst. Prof.  
 MacGregor, J. G., MSc PhD *Ill*, BSc Asst. Prof.

## Electrical Engineering

Harle, J. A., MSc *Durk.*, MIEE Prof.  
 Porteous, J. W., MSc Prof.  
 Phillips, R. E., BSc Assoc. Prof.  
 Haddow, J. B., BSc *St And* Assoc. Prof.  
 Fokings, Y. J., B *T H Delft* Assoc. Prof.  
 Kerr, R. W., BSc Asst. Prof.  
 Clarke, K. G., BSc *Que* Asst. Prof.  
 Kelly, D. H., MSc Asst. Prof.

## Mechanical Engineering

Ford, G., PhD *Stan.*, MSc Prof.  
 Doby, J., MA *DPhil Oxon*, BSc Assoc. Prof.  
 Kennedy, J. S., PhD *Stan*, MSc Assoc. Prof.  
 Finner, D., MSc *Mich* Assoc. Prof.  
 Sadler, G. W., BSc *Sask*, MSc *Ill* Assoc. Prof.  
 Dege, A. G., BE MSc *Sask* (on leave) \*Asst. Prof.  
 Ebel, A., BSc *Hayfa*, MME *Reuniao* Asst. Prof.  
 Johnson, E. W., BSc *Lond* Asst. Prof.  
 Rodkiewicz, C. M., Diplng *Polish Univ.* Asst. Prof.  
 in Exile

## Mining and Metallurgy

Leige, E. O., MSc Prof.  
 Patching, T. H., BSc Prof.



Pratt, J. G., BSc *Leeds*, PhD *Liv.* Prof  
 Leja, J., BSc *Lond*, *Dupling Crocos*,  
 PhD *Canab* Assoc Prof  
 Youdele, W. V., MEng PhD *McG.*,  
 BSc Asst Prof

Campbell, Margaret M., BSc *Br Col.*,  
 MPH *Mich* Asst Prof  
 Schumacher, Marguerite E., BSc *Western*  
 Reser., MA *Col* Adviser  
 Madden, Margaret M., BA *Sask*  
 (Obstet.) Lectr  
 Geddes, Madeline R., BSc Lectr

# MEDICINE

## Anaesthesia

Heley, F. C., MSc MD Asst Prof  
 1 Prof  $\dagger$ , 2 Sessl. Instrs.  $\dagger$ , 1 Asst. Prof  $\dagger$ ,  
 4 Hon. Instrs.  $\dagger$ , 1 Lectr.  $\dagger$

## Anatomy

Ravilinson, H. E., MSc PhD *McG.*, MD Prof  
 Thompson, J. S., MA *Sask*, MD *Tor*  
 (on leave) Prof.  
 Salt, W. R., MSc Prof  
 Fish, Mrs Margaret T., BSc MD  
 (on leave) Assoc Prof  
 Bertram, E. G., MSc *W Ont.*,  
 PhD *Buffalo* Assoc Prof  
 Erikson, L. B., BA *Rock. & Ovan.*,  
 MA *Ovan*, PhD *Ill.* Asst Prof  
 1 Prof  $\dagger$ , 1 Asst Prof  $\dagger$

## Bacteriology

Stuart, R. D., DPH ChB MD DSc *Aberd.*,  
 FRPSGlas Prof.  
 Myers, G. E., PhD *McG.*, MSc Prof.  
 Penikett, E. J., K., MB BS PhD *Lond.* Prof.  
 Carmichael, J. W., PhD *Harc.*, MSc  
 Assoc. Prof.  
 Tushach, Sheila R., MA *Tor.*, BSc Asst. Prof.  
 Williams, Mrs. Mary E., MB ChB *Liv.*  
 Asst. Prof.  
 Barawicz, Mrs Anne M., MB ChB *Edin.*  
 DPH *Tor* Asst. Prof.  
 Campbell, J. N., BA *W. Ont. & Br. Col.*,  
 MSc *Br Col.*, PhD *Chic.* Asst Prof  
 Payne, I. J., MA *Br. Col.*, PhD *Penn.* Asst Prof  
 1 Sessl. Instrs.  $\dagger$ , 1 Lectr.  $\dagger$

## Medicine and Clinical Medicine

Wilson, D. R., BA *Ovan*, MD CM *McG.*,  
 FRCPCan, FACP Prof.  
 Fraser, R. S., MD MSc, FRCPCan Assoc Prof.  
 Gilbert, J. A. L., MD ChB *Edin.*, FRCPCan,  
 FRCPed Assoc Prof.  
 Monckton, G., BS MD *Lond.*, FRCPCan  
 Assoc Prof.  
 Dyrenfurth, Mrs. Inge, MSc *Berl.*,  
 PhD *Hendel.* (Exper. M.) Asst Prof.  
 Little, A. S., MD *Manit.*, FRCPCan Asst Prof  
 McLeod, L. E., MSc *McG.*, BSc MD,  
 FRCPCan Asst Prof  
 Renties, P. L., MSc *Manit.*, BA MD  
 (Dermatol.)  $\dagger$  Asst. Clin. Prof.  
 3 Clin. Profs  $\dagger$ , 2 Asst. Profs.  $\dagger$ , 3 Asst. Clin.  
 Profs.  $\dagger$ , 12 Lectrs  $\dagger$ , 14 Instrs  $\dagger$ , 3 Hon.  
 Instrs  $\dagger$ , 1 Hon. Lectr.  $\dagger$

## Nursing

McClure, Ruth F., MPH *Pitt.*, BSc Assoc Prof.

## Obstetrics and Gynaecology

Paul, W. M. Prof.  
 Nelson, T. R., MB ChB *Edin.*, FRSCan  
 Assoc Prof  
 Ferguson, W. F., BSc MD  $\dagger$  Asst. Prof  
 1 Hon. Clin. Prof.  $\dagger$ , 2 Clin. Profs  $\dagger$ , 5 Asst.  
 Clin. Profs  $\dagger$ , 5 Lectrs  $\dagger$ , 5 Sessl.  
 Instrs.  $\dagger$ , 1 Clin. Tutor  $\dagger$ , 1 Hon. Sessl.  
 Instrs.  $\dagger$

## Ophthalmology and Oto-Laryngology, see Surg. and Clin. Surg.

## Pædiatrics

Martin, J. K., MB BS *Lond.*, MRCP Prof  
 Taylor, W. C., MB ChB *Aberd.*, FRCPCan  
 Assoc. Prof.  
 2 Clin. Profs.  $\dagger$ , 1 Assoc. Clin. Prof.  $\dagger$ , 3 Asst.  
 Clin. Profs.  $\dagger$ , 2 Lectrs  $\dagger$ , 5 Instrs  $\dagger$ , 1  
 Asst. Prof  $\dagger$

## Pathology

MacGiegor, J. W., BA MD, FRCPCan  
 Prof., Provincial Pathologist  
 Barn, G. O., BSc MD Assoc. Prof  
 Shantha, T. K., MSc MD Assoc. Prof  
 Kasper, T. A., BSc MD Asst Prof  
 Swallow, R. J., BA *Sask*, MD Asst. Prof.  
 1 Assoc. Prof.  $\dagger$ , 5 Asst. Profs.  $\dagger$ , 3 Instrs.  $\dagger$ ,  
 1 Clin. Prof  $\dagger$

## Pharmacology

Daniel, E. E., MA *Yelm.* *Utah* Prof  
 Nash, C. W., BSc *Manit.*, MSc PhD *Manit.*  
 (on leave) Prof.  
 Lowenthal, J., MSc PhD *Manit.* Assoc. Prof  
 Mahon, W. A., LMCC *St. Joe.* Asst Prof  
 1 Asst. Prof.  $\dagger$ , 1 Hon. Instrs.  $\dagger$

## Pharmacy, see above

## Physical and Occupational Therapy

Fowler, J. R., MD (Phys. Med.) Prof.  
 Foulds, A. G. Asst. Prof.  
 Allbon, L. C. (Occupnl. Therapy) Asst. Prof.  
 Bradshaw, Ruth O. F., BSc *McG* Asst. Prof

## Physiology

Peacock, J. W., MD CM *Qu.*, DPhil *Ovan.* Prof.  
 Heath, C., PhD *Manit.*, MSc Assoc. Prof.  
 Cottle, W. H., MA *Br. Col.*, PhD *Wash.*  
 Assoc Prof  
 Hblm, E. O., MB MS PhD *Lond.* Assoc. Prof  
 Chapman, K. M., MS PhD *Manit.* Asst. Prof.

Feldman, C. M., BA *Hartwick*, PhD *Penn*  
Asst Prof  
Asst Prof †, Lectr †, Instr. †, Hon  
Lectr †

## Preventive Medicine

Greenhill, Hon S. G., MD DPH *Tor* Prof  
4 Lectrs. †, 2 Hon. Instrs. †, 3 Sessl. Instrs. †

## Psychiatry

Yonge, K. A., MD CM *McG*, DPM *Lond* Prof  
Forster, W., MB BS *Dunk*, DPM *Lond*  
Asst Prof  
Chenard, Imelda, Hon. MSc *Laval* Asst. Prof  
McTaggart, A. N., BA *Br Col*, MD  
CM *McG*, Asst Prof  
Easterbrook, J. A., MA *Qu.* Chief Psychologist  
1 Clin. Prof. †, 1 Hon. Assoc. Clin. Prof. †,  
3 Asst. Clin. Profs. †, 6 Instrs. †, 1 Hon.  
Asst. Prof. †, 1 Clin. Instr. †

## Radiology

Duggan, H. E., MD Prof  
3 Lectrs. †, 5 Instrs. †

## Surgery and Clinical Surgery

Macbeth, R. A. L., MSc *McG*, BA MD,  
FRSCan, FACS Prof  
MacKenzie, W. C., BSc MD CM *Dal*,  
MS *Mass*, FACS, FRSCan Prof  
Harrison, R. C., MS *Tor*, MD, FRSCan,  
FACS Prof, Dir. of Exper. Surg.  
Corvus, C. M., BA *Sask*, MD *Manit.*,  
FRSCan, FRCSed, FACS Asst. Prof  
Kowalewski, K. P., MD PhD *Brussels*,  
MPH *Waraw* (Exper. S.) Asst. Prof  
Doyd, T. A. S., MB ChB *Glas*, FRCS  
Asst. Prof  
Lakay, W. H., BSc MD, FRSCan Asst. Prof  
1 Hon. Clin. Prof. †, 10 Clin. Profs. †, 1 Asst.  
Prof. †, 6 Asst. Clin. Profs. †, 12 Lectrs. †,  
28 Instrs. †

## Veterinary

Brood, D. C., MVSc *Tor* Asst. Prof., Dir.

## INDUSTRIAL LABORATORIES

Noble, C. E., BA BSc Prov. Anal., Dir.

PROVINCIAL LABORATORY OF  
PUBLIC HEALTH

Stuart, R. D., ChB MD DSc DPH *Aberd*,  
FRPSCGlas Prof., Provincial Bacteriologist  
Shute, D., MD ChB *Manit.* \*Dir.  
Cochran, Erna P., MB ChB *Glas*.  
Williams, Mrs. Mary E., MB ChB *Lie*  
Tushnet, Sheila, MA *Tor*, BSc  
Shutka, T. K., MSc MD

## RESEARCH COUNCIL OF ALBERTA

Glaze, N. H., MBE, MA *Sask*, PhD *McG*,  
FRSCan, FCIC Dir. of Res.  
Lang, W. A., MSc Sec., Asst. Dir. of Res.  
Wark, Kathleen, BCom Accountant  
Steaver, Vern, MSc Librarian

## DEPARTMENT OF EXTENSION

Campbell, D. D., BCom BA *Br Col*, MA  
Dir. of Dept.  
Cormack, E. W., OBE, BSc Asst. Prof.  
Des Champs, A., BSA *Manit.* Agn. Sec.  
Dodd, Mary I., MS *Cal*, BCom Librarian  
Greene, G. K., BA *HEd* Asst. Prof.  
Byford, G. A., BA *Manit.*, MA *Tor* Asst. Prof.  
Ritchie, C. F., AB *Calif*, MS *Indiana* Asst. Prof.  
Bancroft, D. A., BSc Asst. Prof.  
Mullaly, J. E., BCom BA *Dub*. Asst. Prof.  
Blair, W. R., LLB Asst. Prof.

## BANFF SCHOOL OF FINE ARTS

Cameron, Senatos, D. MSc Dir.  
Machan, J. C. K., BCom Asst. Dir.  
Becker, D. P., BA BSc Asst. Dir.

## ADMINISTRATIVE AND OTHER STAFF

GENERAL DIR. of Educ., Calgary: H. S.  
Baker, BA *Tor*, PhD *Cal*, MA Dir. of Summer  
Session & Evening Credit Programme: J. W.  
Gillies, EdD *Stan.*, MA MEd Dir. of Summer  
Session & Evening Credit Programme, Calgary:  
T. G. Finn, EdD AM *Stan.*, BA Provost,  
Calgary: A. A. Gubb, MA *Tor*, EdD *Stan.*, BSc  
BEd Counsellor, Student Counselling Service:  
A. R. Vander Well, BA *Central Col*, MA *Iowa*  
State Counsellor, Student Counselling Service:  
D. C. Finn, BEd MA (on leave) Advisor to  
Women Students, Calgary: . . . Advisor  
to Men Students: R. C. W. Hooper. Personnel  
Officer: M. S. Cooke, BSA *Sask* Dean of  
Women: Mrs. J. Grant Spaulding, BA *DipSW*  
*Tor*. Supt. of Univ. Hospital: B. Small. Plan-  
ning Officer: H. R. Harris, BSc Sec. of Ad-

missions Cttee.: W. A. D. Burns, BA. Admin.  
Officer, Calgary: K. F. Guy, MA *Dal*, PhD  
Edw. Administrator, Profess. Exams: G.  
Samuel, MA *Glas*. Administrator, Student  
Awards: R. B. Wushart, BCom *Tor*. Asst.  
Registrar: L. P. Morgan, BA *McM* Accountant:  
M. A. Russell, BCom *McG*. Purchasing Agent:  
E. F. Hunter, BCom. . . Warden of Pembina Hall:  
. . . Warden of Assiniboia Hall: . . .  
Warden of Athabasca Hall: J. C. Morrison, BSc  
PhD *Glas* Alumni Sec.: A. G. Markie, BJ *Cal*,  
BA *Manit.*, Univ. Press. Mrs. Bella Dunman.  
Officer-in-Charge, Univ. Office, Natl. Employ-  
ment Service: Theresa Kehoe, BA. Radio Pro-  
ducer, CKUA: G. Vaughan. Supt. of Bldgs.  
B. W. Brooker, BSc. Supt. of Grounds: R. H.  
Knowles, BSA *Tor* Supt. of Bldgs. & Grounds,

Calgary J A Webb, BSc Univ Medical Officer; Hen S G Greenhill, MD DPH Tw

**LIBRARY** Reference Librarian Dorothy I. Hamilton, BScLS Wark, MA Mck, BA Circulation Librarian Norma E. Fairfield, BLS Tw, BA, Order Librarian Lilian E. M. Levensedge, BLS Tw, BA Chief Cataloguer & Asst. Librarian D Baird, BA Br.Col, MS Cal Medical Librarian Margaret I. Sutherland,

BLS Tw, BA, Educn Librarian (Edmonton). Mona L. English, BA Br.Col, MLS Wark Librarian (Calgary) Dorothy E. Ryder, BA Br.Col, BLS McG Chief Processing Librarian (Calgary) Mary E. Skeeth, BA Qu, BLS McG Appl Sci Librarian Mrs. Ivana Ralovich, Luc Belgrade, BLS Tw, Law Librarian D Noden, MA Camb, BLS McG Librarian (Boersl Inst): P H Connolly, BA Br.Col, BLS Tw

## AFFILIATED INSTITUTIONS

It colls. maintain a staff and offer a curriculum approved by Univ of Alberta. The same requirements for admission obtain and regular univ exams of first yr are written. It colls are not affiliated with Univ of Alberta financially.

**CAMROSE LUThERAN JUNIOR COLLEGE**, Box 1540, Camrose (tel. Camrose 2444). Affiliated to univ in 1959. Provides courses in 1st yr arts & sci subjs. Pres.—G. Loken, BA Dean—K G Morgenroth, MA MEd PhD.

**LEITHBRIDGE JUNIOR COLLEGE**, 5th Ave. and 18th St S, Leithbridge (tel. PA7-4731). Affiliated in 1957. Provides courses in 1st yr arts & sci. and some agric subjs. Dean—W. J. Cousins, MA.

**MOUNT ROYAL COLLEGE**, 7th Ave. and 11th St S W, Calgary (tel. Calgary AM6-4611). Affiliated in 1931. Provides courses in 1st yr arts & sci subjs. Principal—Rev. J W. Garden, BA DD.

**PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART**, 13th Ave. and 16th St S W, Calgary (tel. Calgary AV9-7697). Affiliated in 1926. Just operates directly under prov. dept of educn. and no univ courses are provided. Principal—E W. Wood.

**RESERVE COUNCIL OF ALBERTA**, 87th Ave. and 114th St, Edmonton, Alberta, is an independent

orgn., although pres. of univ is a member of the council. Essential function of res. council is to conduct res. directed to utilization of resources of prov of Alberta. The bldg is adjacent to the Edmonton campus and there is collab. with the univ in a number of fields.

**ST JOSEPH'S CATHOLIC COLLEGE**, Univ of Alberta, Edmonton, Alberta (tel. GE7-1569). Affiliated in 1920 as an arts college providing courses in hist and philos. Situated on univ campus. Rector—H. Prudent.

**ST. STEPHEN'S COLLEGE**, Univ of Alberta, Edmonton, Alberta (tel. GE7-1153). (Theol. coll. of United Church of Canada.) Affiliated in 1910. Provides courses in Hebrew and babil lit. Situated on univ campus. Principal—E J. Thompson, MA ED PhD.

**UNIVERSITY HOSPITAL**, Edmonton, Alberta. Affiliated in 1922. Teaching hosp. of 1200 beds. Pres and dean of the fac of med are statutory members of the administering bd. Supt—B. Snell, DPH, MRCPed.

**WESTERN BOARD OF MUSIC**, Dept. of Fine Arts, Univ. of Alberta, Edmonton, Alberta. Founded 1915 to conduct theoret. and practical exams of a high standard in music. Orgn. is governed by univ cttee on music.

## GENERAL INFORMATION

### EDMONTON AND CALGARY

(see also below)

The univ. was created at Edmonton in 1906 by an act of the first session of the first legislature of the province. The provincial legislature has establd. a close relationship between the univ. and the professions by giving the general fac. council jurisdiction over the educn. standards of agrolgists, architects, chartered accountants, dental auxiliaries, dentists, dietitians, engineers, geologists, geophysicists, land surveyors, lawyers, pharmacists, physical and occupational therapists, physicians and surgeons, registered nurses and veterinary surgeons.

In 1944 the univ. assumed responsibility for all teacher trng. in the province and in 1945 took over the provincial normal schs. and their staffs.

The Calgary normal sch., which was housed until 1959-60 in the bldg. of the provincial inst. of technol. and art, became the Calgary branch of the univ., now the 'Univ. of Alberta, Calgary'.

The senate supervised all phases of the instn.'s activities until 1910, when a bd. of governors was constituted and given charge of the univ.'s business affairs. This form of govt. remained substantially unaltered until 1942, when a new act reduced the size of senate and transferred most of its academic functions to the general fac. council.

**CONSTITUTION.** The chancellor is elected for 6 yrs. by convocation, which consists of survivors

of original groups of grads. of other univs. who registered as members of convocation under the univ. act of 1906, and all subsequent grads. of the univ., he is a member of the bd. of governors and of senate, as is the pres. The bd. of governors consists of 6 ex-officio members and 7 apptd. by the lt.-governor in council. The senate consists of 29 members, and acts as a deliberative, enquiring and recommending body. There is considerable emphasis on its function as a bridge between the univ. and the life and activities of the province, and 9 of its members represent agric., business, labour, industry, public reform and organizations devoted to social and cultural welfare.

**INCOME (1961-62)** On current account, about \$16,425,000 (sources of revenue: prov. of Alberta, 48.7 per cent; govt. of Canada, 11.7 per cent; tuition fees, 16.3 per cent; departmental and other sources, 23.3 per cent). This total includes revenue of both the Edmonton and Calgary campuses. Calgary expended \$1,723,040 of the current revenue. Income on capital account, \$4,591,695 for Edmonton and \$1,547,205 for Calgary.

**FACULTIES AND DEANS** See p. 148.

**SCHOOLS AND DIRECTORS** See p. 148.

**ADMISSION** See Appendix III.

**FEES** Annual tuition fees: BA, \$250; BMus, \$250; BSc, \$250; art dipl., \$250; BCom, \$250; DDS, \$425; BEd, \$250; BSc (engin.), \$340; LL.B., \$340; MD, \$425 (1st yr.), \$525 (subsequent

yrs.); BPE, \$250; dipl. in phys. therapy and occupational therapy, \$250; dipl. in pub. health or in teaching and supervision (nursing), \$290; DSc or DLitt, \$250; most other grad. degrees, \$250 per session (complete details of grad. fees in calendar of fac. of grad. studies).

**ACADEMIC YEAR** In most courses mid-Sept. to end April; a terms of about 15 wks. each with a Christmas vac., in med. and dent., a terms of about 15 and 17 wks. Summer session: see below.

**SUMMER SESSION** 6 wks. in July and Aug. (mainly for students in arts & sci. and educn.) All courses may be credited towards degrees.

**BANFF SCHOOL OF FINE ARTS** is at Banff Natl. Park in the Rocky Mountains. Session held during July and Aug., and courses offered in fine and appl. arts, lang., writing and journalism. Majority not given for univ. credit. Dir.—Senator D. Cameron, MSc.

**BANFF SCHOOL OF ADVANCED MANAGEMENT**, under govt. sponsorship of Alberta, British Columbia, Manitoba and Saskatchewan, is meeting industry's demand for exec. trg. through its advanced management courses.

**ALUMNI ASSOCIATION** All grads. are members of alumni assoc., directed by council of 33 members. Alumni sec.-treasurer, employed by univ., has his office in students' union bldg.; he is also editor of the *New Trail* (see 'Publications', below).

## EDMONTON

(see also above)

The campus borders the wooded southern bank of the N. Saskatchewan River in the capital city of the province of Alberta. The property of the univ. in Edmonton includes the campus of 154 acres, and an exper. and teaching farm nearby of 724 acres. In addition, the prov. govt. has leased to the univ. a 5500-acre ranch at Kinross, Alberta, for teaching and res. In 1960 Col. H. A. Dyde donated an 80-acre tract of woodland a short distance from Edmonton for a bot. garden and field lab. In 1961 the dept. of agric. of the prov. of Alberta secured title to 640 acres of land at Ellerslie, south of the city, for use by fac. of agric.

**LIBRARY** Rutherford libr.: 245,000 vols., 3555 periodicals; educn. lib.: 25,000 vols.

**LABORATORIES** for all sci. courses; extensive greenhouses and growth chambers; extensive clin. and demonstrational facilities for the med. sci.

**RESEARCH LABORATORIES** for study of exper. surg. and med., cancer, human genetics, animal nutr., soil sci., field crops and hort., hydraulics, petroleum products, soil mech., strength of materials, structural engin., bot., chem.; geol. and geophy., phys., theoret. maths., zool. Bot.

garden and field lab. (Dir.—J. H. Whyte, MSc. PhD).

**TRAINING HOSPITALS** University—see 'Affiliated Instns', above. Royal Alexandra (747 beds), Muenster (425 beds), Edmonton General (530 beds), Charles Cammell, Oliver Mental H., Albert Memorial Sanatorium, various clinics in city.

**INSTITUTES** Bored inst. in arctic res.; inst. of theoret. phys.; summer inst. of linguistics, stag.-med. res. inst.

**FIRST DEGREES** (of Univ. of Alberta) 3 yrs. (from sr. matric.)—BA, BSc (arts), BSc (household econ.), BSc (pharm.), BSc (MLS) (med. lab. sci.), BPE, BMus 4 yrs. (from sr. matric.)—BA (recreation leadership), BCom, BSc (agric.), BSc (engin.), BEd. 5 yrs. (from sr. matric.)—DDS (incl. 1 yr. pre-dent.), BSc (nursing) (incl. 3 yrs. hosp. trg.). 'Combined course'—5 yrs. (from sr. matric.)—BA & LL.B. 6 yrs. (from sr. matric.)—MD (4 yrs. after a yrs. arts & sci.).

None degrees are awarded only in arts, sci. and pharm. subjects are biochem., bot., chem., classics, Latin-French, Latin-English, Engl., entomol., genetics, geography, geol., hist., maths, appl. maths., mod. lang., philos., psychol., phys.,

phys.-geol., physiol., econ., pol. sci., zool. About four-fifths of the individual's courses in an honours curriculum are in the study of specialization or related fields, with certain limitations, the remainder may be selected by the student.

**Eng. Credit Programmes.** 35 arts and 14 educn. courses are offered at Edmonton, Calgary and other centres. No degree can be completed in this way.

**HONORS DEGREES (of Univ. of Alberta).** 3 yrs after BA or its equivalent—LLB 4 yrs after BA or BSc—MD. A bachelor with hon. standing may usually obtain MA or MSc in 1 yr. of advanced study (2 yrs for bachelors with general degrees), 1 yr.'s residence is required. PhD—2 yrs for masters, 3 yrs. for bachelors with hon.; 2 yrs' residence required. EdD—prerequisites are several yrs of successful teaching, reading knowledge of French, MEd degree. The DSc or D Litt may be conferred on persons considered by the gen. fac. council to have distinguished themselves by special res. or learning in the respective domains of sci. and of the humanities or soc. sci. provided that the original work of merit was carried out by the candidate, either individually or in close assocn. with others, and that the majority of the work was carried out at the Univ. of Alberta. Period of study for BD varies according to programme selected but is in no case less than a combined total of 4 yrs in arts and theol.

Grad. courses are offered in anat., animal sci., bacteriol., biochem., bot., chem., & petrol. engin., chem., civil engin., classics, dairy sci., indust. agric., educnl. admin., educnl. psychol., electr. engin., elem. educn., Engl., entomol., geog., geol., hist., household econ., langs., maths., mod. langs., pharmac., pharmaceut., philos., phys., phys. educn., physiol., plant sci., econ., pol. sci., psychol., soc. educn., sociol., soil sci., med. & clin. med., mech. engin., mining & metall., ped., surg. & clin. surg., zool. The PhD may be awarded in animal sci., bacteriol., bot., chem., civil engin., chem. & petrol. engin., educnl. foundations, dairy sci., Engl., econ., educnl. admin., educnl. psychol., entomol., genetics, geol., hist., mech. engin., pharmac., pharmaceut., philos., phys., physiol., psychol., pol. sci., maths., metall. & met. engin., mod. langs., plant sci., soc. educn., soil sci., zool.

The LL.D. is awarded only as an HONORARY DEGREE.

The univ. does not award EXTERIOR DEGREES, although credit may in certain circumstances be given for exams. passed through extra-mural study.

**DIPLOMAS (of Univ. of Alberta).** 1 yr.—pub. health nursing, nursing teaching & supervisors (both for grad. nurses). 2 yrs.—inter nat. dipl., dent. auxiliary dipl. 3 yrs.—gen. nursing dipl. (for registered nurses); phys. and occupat. therapy dipl. 4 yrs.—act.

**CERTIFICATES.** Awarded by Univ. of Alberta, 5 mos.—advanced practical obstet. Awarded by

prov. govt., 2 yrs.—standard elem. and standard sec. cert. in educn.

**COURSE NOT LEADING TO A QUALIFICATION.** Dairying (short course).

**RESEARCH.** See also 'Research Laboratories', above. Active res. is being carried on in all depts. of the univ. A recent heavy bldg. programme has been conducive to increased res. in the sci. depts., med., engin., and phys. educn. The teaching hospo. are used extensively for res. projects. Extensive res. is conducted by the fac. of educn. Depts. of the prov. govt. assist in res., as does the Res. Council of Alberta (see 'Affiliated Instns', above). Publ. res. papers are listed in the annual *Report of the Governors*.

**ADULT EDUCATION** work is conducted mainly by dept. of extn., although some is done by dept. of agric. The work includes lectures, radio discussion groups, debating material, gen. information service, agric. bulletins, short courses in various subjs., film and slide services, open-shelf and travelling libraries, community life conferences.

**'OPEN' AWARDS.** 'No undergrad. 'open' awards. Postgrad. awards: Univ. of Alberta grad. fellowship, \$3600 over 12 mos for PhD or EdD programme. Prov. of Alberta grad. fellowships, 3 of \$3600 each over 12 mos for PhD or EdD programme. Prov. of Alberta grad. scholrps., 10 of \$2200-\$2600 each over 12 mos. Francis F. Reeve Foundation grad. bursaries, 3 of \$2400 each over 12 mos, financial need, preference to Canadian grads. Shell Oil fellowship, \$1800 p.a., open to sci. or engin. grads, if they have had 1 postgrad. yr. in Canada who intend to follow a career in Canada; fields: chem., engin., chem., geol., geophys., mech. engin., petroleum engin., phys. CIL fellowship, \$2000 p.a., open to Canadian citizens (or univ. grads who intend to follow a career in Canada) for doctoral work in chem. engin. or chem. Pan American Petroleum Corp. fellowship, \$1200 plus fees p.a. for grads. with BSc from any recognized univ. for grad. study in petroleum engin. Pan American Petroleum Corp. fellowship, \$1200 p.a. plus fees for Canadian grads. for grad. study in geol. W. J. Gage fellowship, \$3000 for PhD work in psychol. for res. in concept formation in and through language preferably in children. For all above, apply by March 1 on form which may be obtained from administrator of student awards. The fac. of educn. has certain fellowships available. Apply direct to fac. Teaching assistantships and fellowships are available in certain depts.; value up to \$2500. Apply direct to dept. concerned.

**APPOINTMENTS.** A sub-office of the Edmonton branch of the natl. employment service is located on the campus and serves both grads. and undergrads.

**STUDENT RESIDENCES.** Pembina Hall, 152 women; Pembina House, 18 women; Athabasca Hall, 186 men. (General office tel: GE3-5277)

St. Joseph's Coll., 100 men (tel. GE3-1569)  
 St. Stephen's Coll., 153 men (tel. GE3-1152).  
 St. Aidan's House, 11 men (tel. GE3-8756). All  
 except St. Aidan's House (11009 89th Avenue)  
 are on campus. Cost of 1000 and bid, \$70 to \$75  
 per mo. Full meal and restaurant service for day  
 students provided by cafeteria. Residence life is  
 under superv. of a student-staff gen. res. office.

**STAFF RESIDENCES.** Ten houses for 50 staff  
 members—occupying admin. positions, 8 suites  
 or apartments available for limited period to new  
 staff members with families.

**NAVAL, MILITARY AND AIR UNITS.** Officers' trg.  
 provided for undergrads. by univ. naval trg.  
 div. of royal Canadian navy, the Alberta contingent  
 of the Canadian officers' trg. corps of the  
 Canadian army and the reserve univ. squadron of  
 the royal Canadian air force.

**MEDICAL SERVICES.** The univ. provides a com-  
 prehensive med. service for students which is  
 covered by a specific fee paid annually by each  
 undergrad and grad student. Out-patient and  
 emergency care provided by univ. infirmary,  
 and facilities of univ. hosp. are available when  
 required.

**STUDENTS' UNION.** Student affairs are handled  
 by a students' union which has its own bldg. and

employs its own bus manager. Union fee col-  
 lected by the univ. at time of registration and  
 includes contributions to the bldg. fund and to  
 the univ. athletic bd. Included in the fee are the  
 price of the yearbook and the student newspaper.  
 A cttee. on student affairs, composed of members  
 of the exec. of the student union and other student  
 orgns. and members of the admin., acts as a  
 liaison between students and senate and bd. of  
 governors. Student life is under the general  
 superv. of the provost.

**PUBLICATIONS.** *Calendar* (spring); *Summer  
 Session Announcement*; *Information for Pros-  
 pective Univ. Students* (for matriculants); *Report  
 of Bd. of Governors* (Nov.); *The New Trail*  
 (quarterly), jty. by univ. and alumni assoc.;  
*Gateway* (student newspaper, twice weekly);  
*Evergreen and Gold* (annually by students);  
*Stat* (students' magazine—irregularly); *The His-  
 tory of the Univ. of Alberta, 1908-1958*, J. Mac-  
 Donald (Univ. of Alberta Printing Dept., 1959).

**UNIVERSITY BOOKSTORE** stocks mainly text-  
 books, stationery and other accessories, but also  
 growing list of books of gen. interest.

**UNIVERSITY PRINTING DEPT.** The univ. main-  
 tains its own printing and bookbinding establish-  
 ment on the campus.

## CALGARY

(see also above)

The campus at Calgary has outgrown its old  
 quarters in the prov. inst. of technol. and art and  
 a new site of approx. 230 acres has been donated  
 by the city on the Banff highway at the western  
 limits of the city. The first two bldgs. are de-  
 signed to house arts, educn., sci. and engin., and  
 were opened in the fall of 1960.

The univ. in Calgary functions under the same  
 constitution and under the same officers as the  
 univ. in Edmonton. Sr. admin. officer in Calgary  
 is the principal. The various depts. are under the  
 dir. of deans and dept. heads in Edmonton acting  
 through admin. officers in Calgary.

**LIBRARY.** 42,000 vols., 957 periodicals taken  
 regularly.

**LABORATORIES** available for all sci. courses  
 offered.

**RESEARCH LABORATORIES.** A lab. on the campus  
 and an underground chamber on Sulphur Moun-  
 tain in Banff Natnl. Park are being used for the  
 intensive study of cosmic rays. The phys. dept.  
 houses an electron microscope. There is also a  
 Calgary div. of the prov. lab. of pub. health.

**TEACHING HOSPITALS.** Calgary General is used  
 for trg. of 2nd, 3rd and 4th yr. BSc (nursing)  
 candidates.

**DEGREES** (of Univ. of Alberta). The Univ. of  
 Alberta, Calgary, offers first 3 yrs. of course lead-  
 ing to BEd and to degree in engin., and first 3 yrs.  
 of course leading to BEd degree in indust. arts.

1st yr. courses available in fac. of arts & sci. lead-  
 ing to degrees of BA, BSc, BSc in nursing and  
 BSc in household econ. The 1st yr. may be taken  
 in facs. of agric. and comm., and in sch. of phys.  
 educn.

**Eng. Credit Programs.** 3 arts & sci. courses  
 and 3 educn. courses are offered.

**CERTIFICATES.** *Awarded by dept. of educn.* Jr.  
 elem. cert. after 1 yr. of trg., standard elem. cert.  
 or standard sec. cert. after a yrs. of trg.

**ADULT EDUCATION; APPOINTMENTS; NAVAL,  
 MILITARY AND AIR UNITS.** See under 'Edmon-  
 ton', above.

**MEDICAL SERVICES.** Med. facilities available for  
 treatment of students upon payment of a stipu-  
 lated fee.

**STUDENTS' UNION.** Student affairs are handled  
 by a students' union. The union fee, collected at  
 registration, includes contributions to a bldg.  
 fund, to the athletic bd. and covers the cost of the  
 student newspaper and yearbook.

**PUBLICATIONS.** *Calendar*, *Summer Session  
 Announcement*; *Information for Prospective Univ.  
 Students* (for matriculants); *Report of the Gov-  
 ernors*; *The New Trail* (quarterly), jty. by univ.  
 and alumni assoc.; *The Gleaner* (student news-  
 paper); *The Tally Stick* (yearbook).

**UNIVERSITY BOOKSTORE.** Text-books, station-  
 ery and other accessories are stocked.

## THE YEAR 1961

## Edmonton

MAJOR BUILDING DEVELOPMENTS Student health services bldg

RETIREDMENTS Prof A W C. Henry (agric.), Prof E S. Kepping (maths.), Dr. J R. Vant (med.)

HONORARY DEGREES LL.D.—Hon. J P. Page, lt.-govt. of Alberta, H. S. Brown, chemist, G. Heisberg, physicist, hon. justice H. J. Macdonald, G. Polya, mathematician; W R. Woss, book publisher; Dr. W S. Hartnett; H R. Brown, dent. consultant

## Statistics

	STUDENT NUMBERS, 1961-62	
	Full-Time	Part-Time
Men	4678	55
Women	2423	64
Total	7095	119

Special students (incl. Calgary and all vry credit programme centres), 343

Summer session, 4285 (incl. Banff Sch. of Fine Arts).

Evening credit programme, 916.

Distribution by Faculties and Schools. Agric.,

140, arts & sci., 1785, comm., 311, dent., 179, div., 6, educn., 1946; engin., 891; grad studies, 612; household econ., 87, law, 129, med., 229, med. lab. sci., 57, nursing, 486, pharmac., 197; phys. educn., 119, physiotherapy, 40, special students, 170

Included in the figures above are —

New admissions, 2309

Students from other countries, 160 (Britain & U.K. dependencies, 91; elsewhere, 69)

DEGREES AWARDED (1960-61). Agric. BSc, 20 Arts & sci. BA, 203, BSc, 155, BMus, 3 Comm. BCom, 47 Dent. DDS, 24 Div. BD, 3, Educn. BED, 315, BEEd (phys. educn.), 1; BEEd (indust. airt), 6, Engin. BSc, 240 Grad. studies: MA, 17, MSc, 68, MEd, 28, PhD, 10 Household econ. BSc, 26 Law LL.B., 33 Med. MD, 51, BSc, 4 Nursing BSc, 35 Pharm. BSc, 46 Phys. educn. BPE, 17.

DIPLOMAS AWARDED (1960-61) Art, 5 Music, 13 Nursing nursing, 104; teaching & supervision, 16; public health, 12 Physiotherapy, 20

## Calgary

MAJOR BUILDING DEVELOPMENTS. Phys. educn. bldg.

HONORARY DEGREES LL.D.—I. N. McKinnon, NEB chairman; hon. chief justice C. C. McLaurin

## Statistics

	STUDENT NUMBERS, 1961-62	
	Full-Time	Part-Time
Men	515	83
Women	550	94
Total	1465	177

Special students, 41.

New admissions, 810

Evening credit programme, 408

Students from other countries, 23. (Britain & U.K. dependencies, 5, elsewhere, 18)

Distribution by Faculties and Schools Agric., 6; arts & sci., 187, comm., 79, educn., 859; engin., 158; grad. studies, 33; household econ., 6; nursing, 10; phys. educn., 3, special students, 41.

# ASSUMPTION UNIVERSITY OF WINDSOR\*

Founded as Assumption College in 1857

Postal Address: 400 Huron Lane, Windsor, Ontario, Canada  
Cables and Telegrams: Assumption University, Windsor, Ontario  
Telephones: Windsor—253-4232, Detroit—Woodward 3-6113

CHANCELLOR—Most Rev J C CODY, DD LL.D. *W. Ont.*, Bishop of London  
VICE-CHANCELLOR AND PRESIDENT—Rev E C LeBEL, CD, BA *Tor.*, MA *Que.*, LL.D. *W. Ont.*  
EXECUTIVE VICE-PRESIDENT—Rev H V MALLON, BA *Tor.*, MA *Mich.*  
VICE-PRESIDENT, DEVELOPMENT—Rev D J MULVHILL, BA *W. Ont.*, MA *PhD Mich.*  
CHAIRMAN, BOARD OF REGENTS—A. F. FURRY  
CHAIRMAN, ESSEX COLLEGE BOARD OF DIRECTORS—J. W. WHITFIELD, BA *W. Ont.*  
TREASURER—Rev E A ROBERTS, BA *W. Ont.*, STB *St. J. Coll. Tor.*  
REGISTERAR—BARBARA H BIRCH, MA *W. Ont.*  
LIBRARIAN—W. F. DOLLAR, MA *W. Ont.*, AMLS *Mich.*  
DEANS OF FACULTIES—APPLIED SCIENCE—F A DeMARCO, MAsc *PhD Tor.*, FCIC, Principal, Essex College; ARTS AND SCIENCE—Rev N. J. RUTH, MA *Tor.*, Principal, University College; GRADUATE STUDIES—Rev C P J. CROWLEY, BA *Tor.*, MA *PhD Mich. (Engl.)*, THEOLOGY—Rev D L EGAN, STL *C. U. A.*  
DIRECTORS OF SCHOOLS—BUSINESS ADMINISTRATION—G R HORNE, BA *W. Ont.*, MA *PhD Mich.*  
NURSING—FLORENCE M ROACH, BS *Seize Hall*

## TEACHING STAFF

(C)=staff of Canterbury Coll., (E)=Essex Coll., (R)=Holy Redeemer Coll.,  
(U)=Univ. Coll., +=Part-Time

<b>Anthropology (U)</b>		Birch, C M, BA <i>W. Ont.</i> , MA <i>PhD Tor.</i>	
Hause, Helen E., BA <i>PhD Penn.</i>	†Instr.		Assoc. Prof
<b>Biology (E)</b>		Zin, M, MBA <i>Mich.</i> , BComm	Assoc. Prof
Grant, Rev. A. J., BA <i>Tor.</i> , MA <i>St. Bonaventure</i>	Prof.	Brownlie, M, BA <i>W. Ont.</i> , MBA <i>Mich.</i>	
Benedict, W. G., BSA <i>PhD Tor.</i>	Assoc. Prof	Gerts, J. B, BS <i>Detroit</i> , MBA <i>Ohio State</i>	Asst. Prof
Doyle, R. J., MA <i>W. Ont.</i> , MS <i>Mich. State</i> , PhD <i>Wayne State</i>	Assoc. Prof.	Hanson, W., BComm <i>Sask.</i> , MBA <i>W. Ont.</i>	Asst. Prof
Kuehner, C. C., MSc <i>PhD Ohio State</i>	Assoc. Prof.	Weingarden, A. B, BA	†Instr.
McCarty, H. D., BA <i>W. Ont.</i> , MSc PhD <i>Mich. State</i>	Asst. Prof.	Messwell, R. W., BA <i>W. Ont.</i>	†Instr.
Moss, Marie L., BS <i>Nelson</i> , MS <i>Man.</i> (on leave)	Asst. Prof	<b>Chemistry (E)</b>	
Petros, M. L., MSc <i>Noire Dame</i>	Asst. Prof	Jellinek, H. H. G, DIC, PhD <i>Lond. &amp;</i> <i>Cambr.</i> , FRIC	Prof.
Dougherty, Rev. J. R., BA <i>W. Ont.</i> , STB <i>St. J. Coll. Tor.</i> , MS <i>Conn.</i>	Lectr.	DeMarco, F. A., MAsc <i>PhD Tor.</i> , FCIC	Prof.
2 Jr. Deans.		Rutherford, K. G., BA <i>W. Ont.</i> , PhD <i>Wayne State</i>	Assoc. Prof.
<b>Business Administration (E)</b>		Thibert, R. J., BA <i>W. Ont.</i> , MS <i>Detroit</i> , PhD <i>Wayne State</i>	Assoc. Prof.
Horne, G. R., BA <i>W. Ont.</i> , MA <i>PhD Mich.</i>	Prof.	Channon, E. W., BA <i>PhD Tor.</i>	Asst. Prof.
		Holland, W. J., BSc <i>Que.</i> , MSc <i>PhD Wayne</i> <i>State</i>	Asst. Prof.

\* Member of the Association of Universities of the British Commonwealth



Niedzwiedzki, R. J., BS *Aggr.*, MS *Ill.*

Asst. Prof.

Price, S. J. W., BA MSc *Br. Col.*,PhD *Edm.*

Asst. Prof.

Kosidin, Rev. G. W., BA *W. Ont.*,MS *Mich.*

Asst. Prof.

2 Jr. Demia.

**Classics (U)**Hussey, Rev. J. M., BA *Tor.*, MA *C.U.A.*

Prof.

Fantazzi, C., MA *C.U.A.*

Asst. Prof.

Macedonald, Rev. D. G., MA *Tor.*

Lectr.

**Economics (U)**Phillips, W. G., MA PhD *Tor.* (on leave) Prof.Burns, Rev. F. L., MA PhD *Mich.*

Assoc. Prof.

Chrysoskili, V. C., ML *Latin Catholic U.*,MA *Weyne State*, PhD *Mich.*

Assoc. Prof.

White, W. L., DFC, BA *W. Ont.*, MA *Tor.*

Assoc. Prof.

Fallenbuehl, Z. M., BSc (Econ) *Louv.*,MA *Maur.*

Assoc. Prof.

Kovacs, Aranka, BA *McM.*, MA *Tor.*,PhD *Bryn Mawr*

Asst. Prof.

Callaghan, Rev. J. F., MA *Tor.*

Asst. Prof.

Gillen, W. J., MA *Tor.*, BA

Asst. Prof.

Young, P. J., MA *Tor.*, BA

Soc. Lectr.

**Engineering (E), see Applied Science, below****English (U, R)**Crowley, Rev. C. P. J., BA *Tor.*, MAPhD *Mich.*

Prof.

Miles, Rev. H. V., BA *Tor.*, MA *Mich.*

Prof.

Manley, Mary J., BA *W. Ont.*, MAPhD *Yale*

Assoc. Prof.

Soliman, J. F., MA *Detroit*, PhD *Mich.*

Assoc. Prof.

Flood, Rev. R. P., BA *Tor.*, MSLS *C.U.A.*

Asst. Prof.

Johnson, Rev. K. J., BA *W. Ont.*, MA *C.U.A.*

Asst. Prof.

McNamara, E. J., MA *DePaul*

Asst. Prof.

Pappert, Rev. E. C., BA *Tor.*, MA *Detroit*,PhD *Ont.*

Asst. Prof.

Padley, G. A., BA DipEd *Leeds*

Asst. Prof.

Kelly, D. P., MA *Tor.* (Speech)

Asst. Prof.

Pinnac, H. F., BA *W. Ont.*, MA *Tor.*

Asst. Prof.

Birch, Rosella M., MA *Tor.*

† Lectr.

Madden, Rev. R. J., MA *Tor.*,STB *St. M. Coll. Tor.*

(on leave) Lectr.

2 Rendles, 3 Instus

**Fine Art (U)**DeLuino, J. N., BFA *Yale*, MFA *Tor.*

Assoc. Prof.

**French, see Mod. Langs.****Geography (E)**Vandall, P. E., BA *W. Ont.*

Asst. Prof.

**Geology (E)**Wulter, Rev. A. J., BA *Tor.*

| Lectr.

**German, see Mod. Langs.****History (U, R)**Mulvihill, Rev. D. J., BA *W. Ont.*, MAPhD *Mich.*

Prof.

Hall, Rev. H. G., MA *Canab.*

Assoc. Prof.

O'Meara, Rev. J. P., BA *Tor.*,MA *Wayne State*, PhD *Ont.*

Assoc. Prof.

Roland, Rev. F. J., BA *Tor.*, MA *Detroit*,PhD *Ont.*

Assoc. Prof.

Farrell, J. K. A., BA *W. Ont.*, PhD *Ont.*

Asst. Prof.

McCormack, Rev. J. J., MA *W. Ont.*

Asst. Prof.

Vukovic, M., MA

Lectr.

Rayson, Rev. R. S., MA *Que.*, STB *General*

Theol. Sem.

(B.C.)

Lectr.

**Home Economics (U)**Sister Mary Romana, BSc *Nazareth (Mich.)*,MS *Mich. State*

Lectr.

**Mathematics (E)**Faight, Rev. D. T., BA *Tor.*, MA *Mich.*

Assoc. Prof.

Eliopoulos, H. A., BSc *Salonika*,MSc *McG.*, PhD *Tor.*

Assoc. Prof.

Zakon, E. R., MgtPhil *Dr. J. V. Na*

Assoc. Prof.

Kassimatis, C., BSc *Salonika*, MA *Tor.*,PhD *Que.*

Assoc. Prof.

Abiamowich, J., BSc *Alta*, MA *Tor.*,PhD *Colyf.*

Asst. Prof.

Astago, L., MSc *Dal.*

Asst. Prof.

Campbell, L. L., BSc *Manit.*, MS *Issa*,PhD *Tor.*

Asst. Prof.

Klemola, M. T., MagPhil *PhD Helsinki*

(on leave) Asst. Prof.

Nagh, Rev. W. F., BA *W. Ont.*, MA *Hamton*

Asst. Prof.

Veirma, S., BSc *Patna*, MSc *Bihar*,PhD *Wayne State*

Asst. Prof.

Zayachowski, W., BA *Sask.*, MAPhD *Alta*

(on leave) Lectr.

**Modern Languages (U)**Drouillard, Rev. C. J., MA *Tor.*, PhD *Laval*

(French) Prof.

Thibault, A. A., AB *Boston Coll.*, AM *Harv.*,L&L *Paris*, D&L *Laval*

(French) Assoc. Prof.

McCarthy, Lillian M., MA *PhD Tor.*

(French) Assoc. Prof.

Almaraz, V., L&L *Stras.*

Asst. Prof.

Sister Pauline of Mary, BA *W. Ont.*,MA *Laval*

(French) Asst. Prof.

O'Donoghue, Rev. J. M. C., MA *Tor.*

(Spanish) Asst. Prof.

Pank, Rev. R. S., BA *W. Ont.*, MA *Tor.*

(Spanish) Asst. Prof.

Slakoon, W. S., BA *W. Ont.*

Lectr.

Wesler, Rev. A. J., BA *Tor.*

(German) | Lectr.

Zakom, Mrs. Batia, MA *Videa* (Russian) Lectr  
 Thibault, Mrs. Mary M., BA *St Jos.*  
 MA *C U A.*, Dipl Et off Fr Et *Paris*,  
 Dipl *Inst. de Phon.*, *Paris* (French) Instr.

**Music (U)**

Fior, Rev. J. J., BA *Tor.*,  
 STB *St. M. Coll. Tor.*, Lectr  
 Leach, Mrs. Violet W., AM *Waynes* Instr

**Nursing (E)**

Rosch, Florence M., BS *Seton Hall* Prof.  
 Sanders, Lett G., BS *MA Col.* Lectr  
 Ingram, Ruth A., BScN *Alta*, MN *Wash* Instr

**Philosophy**

Garvey, Rev. E. C., MA PhD *Tor.* Prof. (U)  
 Kingston, Rev. F. T., MA LTh BD *Tor.*,  
 DPhil *Oxon* Prof. (C)  
 Flood, P. F., MA *W. Ont.* Assoc. Prof. (U)  
 Alexander, Rev. A. E., PhL *Frab.* Asst. Prof. (R)  
 Powers, Rev. R. D., MA *C U A.* Asst. Prof. (R)  
 Deck, J. N., MA *W. Ont.*, PhD *Tor.* Asst. Prof. (U)  
 Graham, J. M., MA *W. Ont.* Asst. Prof. (U)  
 Nelson, R., MA *DePaul* Asst. Prof. (U)  
 Daley, Rev. J., BA *W. Ont.*, MA *Tor.*,  
 STB *St. M. Coll. Tor.* Lectr. (U)  
 Brown, J., BA *Iowa (N.Y.)*, MA *Tor.*,  
 (on leave) Lectr. (U)  
 Catan, J. R., MA *Tor.* Lectr. (U)  
 Cunningham, S. B., BA *Manit.*, MA *Tor.*  
 Lectr. (U)  
 Wilkinson, Rev. P. F. F., MA *Tor.*,  
 LTh *Wycliffe (Tor.)* Lectr. (C)

**Physics (E)**

Kruse, L., BSc *Lowd.*, MA PhD *Tor.* Assoc. Prof.  
 Husholt, J., MA *Tor.* (on leave) Asst. Prof.  
 Haber, E. E., BSc *Bum.* Asst. Prof.  
 Hedgecock, N. E., MA *B. Col.*,  
 PhD *McM.* Asst. Prof.  
 Holus, F., BSc *Lowd.*, MSc PhD *McM.*  
 Asst. Prof.  
 Moore, R. A., MSc *McM.*, PhD *Alta*  
 Asst. Prof.  
 Numan, T. D., BSc *Tron.*, MSc *Bow.*,  
 PhD *Indiana* Asst. Prof.  
 von Wangarden, A., BSc *McM.* Asst. Prof.  
 Ruet, K. H., MSc *Ontario Engin. Coll.*  
 (Taiwan), MME PhD *Sy.* Asst. Prof.  
 Brockman, I. H., BE *Sask.*, MSc  
 1 Technician Lectr

**Political Science (U)**

Chrypinaki, V. C., MA *Waynes*, PhD *Mich.*  
 Assoc. Prof.

**Psychology (U)**

Sr. Marion Dolores, BA *Marylhurst*,  
 MA PhD *Loyola (Ill.)* Prof.

Carvin, V. B., MA *Amer Univ., Beirut*,  
 DScSc *Bussels*, PhD *Prague* Assoc. Prof.  
 Malone, Rev. J. A., BA *W. Ont.*, MA *Tor.*,  
 PhD *Ferdinand* Assoc. Prof.  
 Record, Rev. M. A., BA *W. Ont.*, MA *Tor.*  
 Assoc. Prof.  
 Smith, A. A., MA *Qu.*, PhD *McG.* Assoc. Prof.  
 Fehr, Rev. R. C., BA *Tor.*, MA *Detroit*,  
 PhD *Ferdinand* Assoc. Prof.  
 McGuey, Rev. T. J., BA *W. Ont.* Assoc. Prof.  
 Starr, M., BA *Tor.*, MA *Prin.* Lectr.  
 Ostr, R., BSc MD *Idreus* Res. Assoc.

**Religious Knowledge**

McCann, Rev. L. A., BA *W. Ont.*, STB  
*Pontif. Athen. Angelicum*, STD *Lowd.* Prof. (U)  
 Rayson, Rev. R. S., MA *Qu.*, STB *General*  
*Theol. Sem.*, DD *Anglican Theol. Coll.*  
 (B.C.) Prof. (C)  
 Egan, Rev. D. L., STL *C U A.* Assoc. Prof. (U)  
 Crowley, Rev. E. J., BA *St. Jos.*, STL *C. U. A.*,  
 STL *Pontif. Bibl. Inst.* Asst. Prof. (U)  
 Murray, J. C., BA *W. Ont.*, STB *St. M. Coll.*  
*Tor.*, STL *Pontif. Athen. Angelicum* Asst. Prof. (U)  
 Kingston, Rev. F. T., MA LTh BD *Tor.*,  
 DPhil *Oxon* Lectr. (C)  
 Fior, Rev. J. J., BA *Tor.*,  
 STB *St. M. Coll. Tor.* Lectr

**Russian, see Mod. Langs****Sociology (U)**

Helling, R. A., BA *Waynes*, PhD *Waynes*  
*State*, Dipl *Socialw. Wiss. Helmholtz* Asst. Prof.

**Spanish, see Mod. Langs.****Speech, see English****APPLIED SCIENCE (E)****Chemical Engineering**

Adelman, M., MAsc PhD *Tor.* Prof.  
 Gnyf, A. W., MAsc PhD *Tor.* Assoc. Prof.  
 Tren, C., BS *Natrl. Transva.*, MS *Kansas*  
*State*, PhD *Northwestern* Assoc. Prof.  
 Kosman, I., BA *BS Col.*, MS  
 DEngSc *Johns H.* Asst. Prof.

**Civil Engineering**

Herlich, H. P., Duping *Warrens*,  
 DSc *Edin.* Prof.  
 Wu, T. S., BS *Natrl. Chiao-Tung*, MS *Wash.*,  
 PhD *Ill.* Assoc. Prof.  
 Duquette, D. D., BA *W. Ont.*,  
 MS *Mich. State* Asst. Prof.  
 Apostolopoulos, H. A., BCivilEng  
 MSCE *Minn.* Asst. Prof.  
 Hartt, J. P., BASc *Tor.*, MSCE *Wayne*  
*State* Asst. Prof.  
 Labe, J. T., Dupling *Lowd.* Lectr.  
 Montrose, C. H., BSc *Qu.* Instr.

**CANADA**

**Electrical Engineering**

Thomas, P. A. V., BSc Lond, PhD Glas	Assoc. Prof
Fletcher, H. R., MAsc Tor	Asst. Prof
Hwang, H. H., BS Natl Chiao-Tung, MS PhD Lehigh	MS Asst. Prof
Venkatesulu, G. V., BE Mys, MSEE Lehigh	Asst. Prof
Joyce, J. D., BSc Qu., MSE Mich.	Lectr.
Huschalt, J. J. M., BAsc Tor.	Lectr.
Pflanzner, A. F., BAsc	Instr.
Yau, M. Y. M., BEng McG	Instr.

**Engineering Science**

Billinghurst, R. G., MAsc Tor.	Assoc. Prof
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**Mechanical Engineering**

Colborne, W. G., MSc Qu	Assoc. Prof
Canady, G. T., DPhilg Munich, PhD N S W U.T.	Assoc. Prof
Tucker, H. J., MEng McG	Asst. Prof
Babey, G. B., MSc Manst.	Asst. Prof
Hewell, Rev. A. R., BSc Sask., STB St M Coll. Tor., MAsc Tw	Asst. Prof

**THEOLOGY (R)****Canon Law**

McAuley, Rev. L. C., BA St. Dun., JCL Pontif Athen Latern	Lectr.
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**Church History**

Egin, Rev. D. L., STL G U.A.	Assoc. Prof
McConnick, Rev. J., MA W. Ont.	Asst. Prof.

**Dogmatic Theology**

Owens, Very Rev. L. G., STL Pontif. Athen. Angelicum	Prof
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**Moral Theology**

Thomas, Rev. A. J., JCD Level	Asst. Prof.
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**Pastoral Theology**

Kelly, Rev. T. I., STL G U.A.	Lectr.
Cleim, Rev. V. C.	Instr.

**Sacred Scripture**

DeVine, Rev. C. F., SSL Pontif Bibl Inst	Prof
Crowley, Rev. E. J., BA St. Jos., STL G. U.A., SSL Pontif. Bibl Inst	Asst. Prof.

**UNIVERSITY EXTENSION****Special Lecturers**

Comiskey, B. J.	(Real Estate Appraisal)
Corman, R. R.	(Real Estate Appraisal)
Hunt, J. M.	(Acctg.)
Jackson, R. D.	(Acctg.)
Masteron, J. P.	(Acctg.)
Mayo, B. R.	(Real Estate Appraisal)
Mongensie, J. C., BSc	(Bus. Maths.)
Nyiles, G.	(Cost Acctg.)
Newton, T. A.	(Bus. Principles)
Oliver, J. W.	(Real Estate Appraisal)
Savore, L. N.	(Indust. Ogn. & Management)
Stephens, G. R.	(Accident Prevention)
Zuber, T. G., BA W. Ont.	(Law)

**ADMINISTRATIVE AND OTHER STAFF**

**Dn. of Extension:** Rev. E. C. Pappert, BA Tor., MA Detroit, PhD Ont. **Dn. of Christian Culture Series:** Rev. J. S. Murphy, BA W. Ont., MA Tor. **Dn. of Athletics:** R. J. Mousaty, MA. **Dn. of Student Affairs and Dean of Men:** Rev. J. A. Malone, BA W. Ont., MA Tor., PhD Fordham. **Asst. Dean of Men:** Rev. J. R. Donaghy, BA W. Ont., MS Can. **Dean of Women:** Sister Marian Dolores, BA Maryhurst, MA PhD

**Loyola (Ill.)** **Asst. Dean of Women:** Lillian M. McCutley, MA PhD Tw. **Chaplain:** Rev. J. E. Daley, BA W. Ont., MA Tw. **Dn. of Devel. & Public Relns.:** J. E. Thompson, MC, BA Manst. **Mod. Advms.:** F. G. De Marco, MD W. Ont. **Alumni Soc. Manager, Placement Bureau:** R. J. Schiffail, BA W. Ont. **Asst. to Student Publications:** Mrs. Charlotte B. Perry, BA W. Ont. **Dn. of Univ. Centre:** H. Wilsue, MS N. Y. State.

**AFFILIATED COLLEGES**

**CANTERBURY COLLEGE,** 172 Patricia Rd., Windsor, Ontario (tel. Clearwater 6-6442) Founded and affiliated 1937. Anglican liberal arts coll., offering courses in theol., mediev. hist. and philos. to undergrads in any course. **Principal—**Rev. R. S. Rayson, MA Qu., STB General Theol Sem., DD Anglican Theol. Coll. (B. C.).

**EWING COLLEGE,** Windsor, Ontario (tel. Clearwater 4-9246) Founded and affiliated 1956. Non-denominational Comm., engin.,

nursing, sci., grad. work in sci. and comm. **Principal—**F. A. DeMarco, MAsc PhD Tor., FCIC.

**HOLY REDEMPTION COLLEGE,** Windsor, Ontario (tel. Yorktown 9-2840) Founded as St. Alphonsus Seminary, Woodstock, Ont., 1930. Affiliated, 1956. Provides 4 yr. arts and 3 yr. theol. for Redemptorist scholastics leading to BA and STB of the univ. **Principal—**Rev. C. F. DeVine, SSL Pontif. Bibl. Inst.

## GENERAL INFORMATION\*

Founded 1857 by Rev. Pierre Point, pastor of Assumption Parish, Sandwich (Windsor). Incorporated 1858 by a public act of the legislature of the province of Canada. Conducted by the Basilian Fathers in 1857-58 and since 1890. Most Rev. D. O'Connor, D.D., president 1870-90, lengthened the arts course from 2 to 4 yrs., and was responsible for considerable academic and maternal progress. Affiliated with the fac. of arts and science of the Univ. of Western Ontario in 1919. The Assumption College Act, 1953, passed by the legislature of the province of Ontario, amended the original act of incorporation, varied the administration of the coll. and enlarged and specified its university powers. Affiliation ceased July 1, 1953, and the following year the coll. was admitted to the NCCU.

A reorganization of the fac. of arts and science took place in 1956, whereby the depts. of the natural sci., maths, engin., nursing educn. and bus. admin. were assigned to Essex Coll. under its own non-denominational bd. of dirs. and the remaining depts. of this fac. were grouped into an academic unit known as University College, under the direct control of the Assumption bd. of governors. In March 1956 the Ontario legislature passed an act which changed the name of Assumption Coll. to Assumption Univ. of Windsor.

The univ. and university coll. are operated by the Basilian Fathers, a Roman Catholic order conducting univs., colls. and secondary schs. in Canada, the U.S.A. and France. The affiliated colls. are legally and financially distinct, but subject in academic matters to the senate.

The univ. is located in the city of Windsor (pop. 191,337) and serves a pop. of approx. 331,000 in S.W. Ontario.

**CONSTITUTION.** The univ. is administered by 25 bodies: the bd. of governors (8 univ. admin. and fac. members apptd. by the Basilian Fathers and 1 member apptd. by Essex Coll.), primarily concerned with finance, and the senate which is the official authority on all academic matters. The senate is partly univ. admin. and fac. members, ex officio; partly elected by fac. members and univ. grads; and partly apptd. by outside bodies, e.g. city and county councils, educational and profess. groups. The bd. of governors is advised by a bd. of regents, consisting of reps. of affiliated colls. and persons representing the religious, ethnic, social and economic aspects of the community.

**INCOME (1960-61).** Total income (operational) \$8,054,198 (tuition & other student fees, 30.9 per cent.; govt. grants, 38.7 per cent.; auxiliary enterprises, 25.6 per cent.; contribution from religious groups, 0.7 per cent.; other sources, 2.5 per cent.).

\* *Later note.* It was announced late in 1962 that a charter was being sought to establish a new, non-denominational Univ. of Windsor on July 1, 1963. Assumption Univ. would remain as a federated univ., holding in abeyance its degree-granting powers except in the grad. fac. of theol.

**FACULTIES AND DEANS.** See p. 163.

**UNIVERSITY PRESENT.** The univ. is housed in a group of bldgs. on a 100-acre campus bordering the Detroit river. These include the administration bldg., staff and student residences, Dillon Hall (Univ. Coll. lecture and seminar rooms, labs for household sci., langs. and psychol.); memorial sci. bldg. (biol. chem. and phys. labs.; biol. museum, audio-visual aids); Essex Coll. (engin. and geol. labs., amphitheatre); St. Denis Hall (gymnasium and swimming pool) and univ. centre (offices of the students' admin. council, student press, lounge, cafeteria, drama workshop and games room). Extensive playing fields.

**LABORATORIES** in all sci. depts., mod. langs., psychol., home econ., sci. and computer facilities in sci.

**LIBRARY,** opened 1958, has 440,000 vols. and 16,000 bound vols. of periodicals.

**ADMISSION.** See Appendix III.

**FIRST DEGREE.** 3 yrs. from st. matric—BA, BSc, 4 yrs. from st. matric—BA hon., BSc hon., BComm hon. (in bus. admin.), BASc (in chem., civil, elect. and math. engin., and in engin. phys.), 5 yrs. from st. matric—BScN. The 1st yr. of pass. and hon. courses is common; remaining yrs. are separate. BA hon. may be taken in econ., pol. sci., Engl., French, hist., philos., psychol., Spanish; BSc hon. in biochem., biol., chem., maths., phys. 3 yrs. from BA—STB. The univ. offers also 1st yr. pharmacy (course must be completed at another univ.).

**Eng. division** offers BA pass. course equivalent to that offered in day division but extending over a longer period.

**HIGHER DEGREES.** 1 yr. from hon. or 2 yrs. from pass. degree—MA, MSc, MBA; 1 yr. from BASc—MASc, 3 yrs. from hon. degree or 2 yrs. from master's—PhD. These degrees are open to grads. of other univs. Courses of instrcn. offered (for MA) in econ., Engl., hist., philos., psychol.; (for MSc) in biol., chem., maths., phys.; (for MBA) in bus. admin.; and (for MASc) in chem., civil, elect., mech. engin. and engin. phys.; (for PhD) in chem., phys. and chem. engin.

**HONORARY DEGREES.** DCL, LLD, DSc, DLitt, MusD.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Management, pub. health nursing, nursing educn., nursing service admin., each course 1 yr., for grads. in respective fields.

**CERTIFICATE.** Bus. admin., 3 yrs. in avg. div.

**STUDY LEAVE.** It is regular practice to permit staff members pursuing higher degrees to have

one or more calendar yrs.' leave of absence (in addition to summers).

**Fees.** Annual tuition and misc. fees—full-time engin., \$550, all other courses—undergrad \$465, grad \$415.50, part-time and extension: \$35 each hour (per wk in winter session or per day in summer sch.) Students from outside Canada pay \$50 per subj extra (to a max. of \$100 per yr.) Room and board—\$700 p a.

**ACADEMIC YEAR.** Winter session, mid-Sept. to mid-May: 2 terms, 16 wks. each.

**SUMMER SESSION.** Day classes in selected undergrad. subjects are offered in a 6-wk. summer session—July and Aug. BA pass course may be taken.

**ADULT EDUCATION.** Evening courses, provided for employed men and women seeking degrees and dipl., are open as well to those interested only in single subjects. In addition, extension courses, for which no academic credit is allowed, are offered at low cost for interested members of the public. Since 1934 the univ. has sponsored for public benefit an annual series of lectures and recitals by outstanding persons, known as the Christian Culture series.

**PRINCIPAL 'OPEN' AWARDS** offered to students entering the univ. for the first time. Univ. entrance scholrs.—\$3200 (16 offered annually), \$1500 for residents of Essex county (unlimited number for grade XIII grads with averages of 75 per cent or better); Friends of Assumption Foundation, Inc. scholrs.—\$2000 (2 offered annually); Assumption Alumni awards—\$3200 (2 offered annually). Students entering the univ. are eligible for Dominion-Provincial type A

bursaries, Navy League of Canada bursaries, I.O.D.E. bursaries, Canadian Legion bursaries, Atkinson Charitable Foundation bursaries and others offered to students entering various instns of higher learning.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Fellowships, varying from \$500 to \$2000, offered for study towards MA and MSc degrees.

**MILITARY TRAINING.** Preparations for commissioned rank in the active or reserve forces of the Canadian navy, army or air force is made possible by membership in the univ. training division, the Canadian officers' training corps or the R.C.A.F. reserve univ. squadron. Trg. is on a pt-time basis during the academic session, full-time during the summer months.

**STUDENT SERVICES.** Counselling and guidance facilities and a student placement service available. The univ. has dormitories for men (402) and women (86). The univ. maintains, in addition, a housing registry through which rooms or rooms and board may be located in near-by homes. Extra-curricular activities are controlled by an elected students' admin. council.

**ALUMNI ASSOCIATIONS.** Founded 1903. Monthly publication: *The Alumni Times*.

**PUBLICATIONS.** By the univ.—*President's Report*, *General Announcement* (incl. admission requirements, general regns & courses), *Grad Studies*, evy. division, summer session and admission brochures, all annually. By the students' admin. council—*The Lance*, bi-monthly newspaper; *The Ambassador*, annually; *Student Handbook*, annually; *The Kalendar*, annually.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** For research, \$40,840; for operation, \$200,383; for bldg purposes, \$840,541.

(Total value of all benefactions received: \$1,081,764)

**REGISTRARS.** M. Glinzki (music), Most Rev. C. L. Nolligan (hist. and theol.); Dr. R. Philip (psychol.); M. Sabatino (mod. langs.).

**HONORARY DEGREES.** LL.D.—P. F. Pocock, coadj. archbishop of Toronto; G. P. Vanier, governor. D.Sc.—B. G. Ballard, vice-pres., scientific, Nat. Res. Council; R. R. McLaughlin, dean, appl. sci. and engin., Tor.; J. H. Smith, pres., Canadian Gen. Electric; J. W. T. Sparks, pres., Sask. D.Sc.BA—R. M. Sale, chairman of bd., Ford Motor Co. of Canada; G. H. Zimmerman, Detroit businessman.

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1124	1028
Women . . .	300	470
Total . . .	1424	1498

**Distribution by Faculties.** Appl sci., 192; arts & sci., 2538; grad studies, 171; theol., 21. Total, 2922.

*Included in the figures above are:—*

Postgraduate students, 97.  
New admissions, 831.

Students from other countries (full-time only), 190. (Countries from which largest numbers came: U.S.A., 140; Hong Kong, 22; W. Indies Fed., 13).

**DEGREES AWARDED (1960-61).** BA, 127; BComm, 41; BSc, 41; BScN, 3; BAsE, 25; BTh, 3; MA, 7; MSc, 3. Total number of first degrees awarded, 240.

**DIPLOMAS AWARDED (1960-61).** Bus. admin., 1; nursing educn., 9.

**CERTIFICATES AWARDED (1960-61)** Bus. admin., 8.

# BISHOP'S UNIVERSITY

Founded 1843; Royal Charter 1853

Postal Address: Lennoxville, Quebec, Canada

Cables and Telegrams: Bishop's University, Lennoxville

Telephone: Lorraine 2-7922

VISITORS—THE ARCHBISHOP OF MONTREAL AND THE BISHOP OF QUEBEC

CHANCELLOR—HON MR JUSTICE D. C. ARBOTT, BCL Hon LLD McG, Hon. DCL

VICE-CHANCELLOR AND PRINCIPAL—C. L. O. GLASS, MA Oxon, Hon. DCL

PRESIDENT OF THE CORPORATION—J. H. MOLSON, Hon. DCL

VICE-PRESIDENT OF THE CORPORATION—Lt. Col. A. A. MUNSTIN, Hon. DCL

REGISTERAR—W. L. TOMKINS, BA

VICE-PRINCIPAL—PROFESSOR A. L. KUEHNER, MA Qu, Hon. DCL, FCIC

DEANS—ARTS—A. W. PRESTON, MA Edin & Oxon, Hon. DCL (Classics); DIVINITY—REV. S. JELlicoe, MA BD Durh, DD McG; SCIENCE—A. L. KUEHNER, MA Qu, Hon. DCL, FCIC (Chem)

## TEACHING STAFF

### Biology

Langford, A. L., BA Qu., MA PhD Tor Prof  
Lewther, J., BSc McG, MA Tor Lectr  
Sepp, L., GradinZool Torus (Zool.) Lectr

### Business Administration

Duval, R. E., MBA W Ont., BA Prof.  
Pattidge, D. C., MBA Harv Asst Prof

### Chemistry

Kuehner, A. L., MA Qu, Hon. DCL, FCIC Prof, Hd. of Dept.  
McCubbin, J. W., MSc Qu, PhD McG Prof.  
Van Horn, W. F., MSc McG, BSc Asst Prof

### Classics

Preston, A. W., MA Edin & Oxon, Hon. DCL Prof  
Thaler, R. P., BA Tennessee, MA Ill., PhD Harv. Asst Prof  
Vaillanc, G., MA PhD McG Asst Prof.  
Fry, Mamon G., MA Dal., BLitt Oxon Asst Prof

### Divinity

Jellicoe, Rev. S., MA BD Durh, DD McG Prof.  
Anido, Rev. J. D. F., MA Oxon. Mountain Prof  
Crouse, Rev. R. D., BA Dal., STB Harv., MTh Trin.Coll.Tor. (Church Hist.) Asst. Prof.  
Forth, Rev. D. S., BA BD McG, LTh Montreal Divison, PhD Camb. (Syst. Theol. & N.T.) Asst. Prof.

### Economics

Judson, T. A., BSc Mont, MA PhD Tor. Assoc Prof

### Education

Jeffers, J. D., MA McG, PhD Tor, BA Prof.

### English

Gray, J., MA Aberd & Oxon Prof., Hd. of Dept  
Motyer, A. J., BA Mt. All., MA Oxon. Assoc. Prof.  
Reamer, T. A., BA Sw.G.Was., MA Montr. Lectr.

### History

Masters, D. C., MA Tor, DPhil Oxon, FRSCan Prof.  
Thaler, R. P., BA Tennessee, MA Ill., PhD Harv. Assoc. Prof.

### Mathematics

Taylor, S., MA Oxon. Prof.  
Van Horn, W. F., MSc McG., BSc Asst. Prof.

### Modern Languages

Yarnall, E. H., MA Tor., Dipl'd EtSup Paris, Cert Inst. de Phn Paris Prof.  
Keffler, L. W., BA Tor. Asst. Prof.

### Philosophy

Poolle, C. F., BA Dal., MA PhD Tor. Asst. Prof.  
Fry, Mamon G., MA Dal., BLitt Oxon. Asst Prof

Physics	Psychology
Horne, M. S., BA <i>Bv.Col.</i> , MSc <i>McG.</i>	Smith, D. D., BA <i>St.G.Wm.</i> , MA <i>Minn.</i>
Dutton, H. M., BSc <i>Lond.</i> , MSc <i>W. Ont.</i>	PhD <i>McG.</i> Assoc. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Librarian: A. D. Banfill, BCL BLS <i>McG.</i>	Asst. Dir. of Athletics & Placement Office: G. Smith, Hon. Consultant for Clin. Pastoral Tg.: T. J. Quinn, MD CM <i>McG.</i> , FACP
BA Sec.-Treasurer, Alumni Assn.: A. R. Almond, BA	Dir. of Athletics: H. Coulter.

## GENERAL INFORMATION

The coll., founded in 1843 (and deriving its name from the 3rd bishop of Quebec who helped to found it), was in 1853 by royal charter constituted a univ. with power to confer degrees.

**CONSTITUTION.** The univ. is administered by a corporation, whose members are apptd. by action of the Anglican bishops of the province of Quebec on the recommendation of a nominating cttee. composed of the chancellor, vice-chancellor and pres. and vice-pres. of the corporation. The corporation consists of 21 trustees and 9 coll. council members. An executive cttee., apptd. at annual meeting in Oct., consists of the chancellor, pres. and vice-pres. and principal ex-officio and 10 other members.

**INCOME (1960-61).** Total, \$700,000 (govt. grants, 28 per cent; endowments, 19 per cent; fees, 47 per cent; other sources, 6 per cent).

**FACULTIES.** Arts, div., sec. For deans, see p. 169.

**UNIVERSITY PRECINCT.** Campus with its century-old chapel, mod. library and students' residences is situated on outskirts of Lennoxville at confluence of Massawippi and St. Francis rivers. Most profs. are provided with homes on the campus.

**LIBRARY.** 34,000 vols.

**LABORATORIES.** Biol., chem., phys.

**ADMISSION.** See Appendix III.

**FIRST DEGREE.** 4 yrs from jr. matric.—BA pass, hon.; BSc pass, hon.; BA in bus. admin. A student who enters the univ. with high standing may be allowed to complete pass degree course in 3 yrs. from jr. matric. BA hon. may be taken in classes, econ., econ. & hist., econ. & maths, Engl., Engl. & French, Engl. & hist., Engl. & philos., French & hist., French & Latin, hist., hist. & philos., maths. & phys., mod. langs., or philos. & theol. BSc hon. may be taken in biol. & chem., chem. & maths., chem. & phys., or maths. & phys.

Theol. students take BA with theol. options (3 yrs.) followed by 2 yrs. of theol. study for LST.

**HONOR. DEGREE.** 2 yrs postgrad.—MA (may be taken at present in educn., Engl., hist., theol.), 2 yrs postgrad. (or 4 summer sessions) plus a yrs teaching experience—MED. BD, DD and STB

(scholar in theol.) awarded by the univ. in accordance with regns. of Bd. of Examiners of General Synod of Anglican Church of Canada.

**HONORARY DEGREE.** DCL, DD

The univ. does not award EXTERNAL DEGREE.

**CERTIFICATE COURSE.** 1 yr postgrad course for Quebec high sch. cert.

**LICENSEATE.** 2 yrs.—LST (in sacred theol.), a div. dipl. which relates to the practical side of tng. for LST is also conferred.

**STUDY LEAVE** is granted at the discretion of the governing body.

**FEES (p.a.).** Tuition: \$400 (univ.), \$110 (div. & educn.), \$435 (sch.). Bd. & lodging (incl. heating & lighting): \$700 extra (single room), \$650 (double room).

**ACADEMIC YEAR.** Two terms: Sept to Dec, Jan to May.

**SUMMER SESSION.** Grad courses, with credits towards MEd., offered during 6-wk summer session for secondary sch. teachers. All resident requirements for MEd. may normally be met by attendance at 4 summer sessions.

There are no 'OPEN' POSTGRADUATE AWARDS offered by, or tenable solely at, the univ.

**STUDENT RESIDENCES.** Except for those living at home or with relatives, all undergrad. students must reside in the univ. or in approved lodgings; there are residences for 189 men (Norton Hall, McGreer Hall, Old Lodge, Pollack Hall) and for 115 women (MacKinnon Hall).

**MILITARY FORMATIONS.** C.O.T.C. Bishop's Univ. Contingent (C.O.): Capt. E. V. Pilgrem, MA) offers tng. for undergrads. who wish to prepare for commissions in the Canadian army (regular or militia).

**STUDENT EXECUTIVE COUNCIL.** Student affairs are administered by this council which also regulates the financial assistance given to student societies.

**PUBLICATIONS.** *Coleman* (March), no charge. Students: *The Mirror*, 3 times per session; *The Campus*, weekly during session; *The Year Book*, annual; *History - Bishop's University: The First Hundred Years*. D. C. Masters. (Clarke, Irwin, 1950).

## THE YEAR 1961

## RESIGNATIONS W Converse (Engl)

HONORARY DEGREES. *DCL*—Hon J Losage, prime minister of P Q ; Rt Rev R F Brown, bishop of Quebec; E R Black, pres, Internat Bank; G F Towns, first govt. of Bank of Canada; Adelaide Gifford, headmistress, King's Hall, Compton, P Q ; P H Scowen, company dir, member of exec ettes of corp of Bishop's

Distribution by Faculties *Arts*, 312, *div.*, 16, *sci*, 145 Total 473.

*Included in the figures above are —*

Postgraduate students, 15

New admissions, 135

Students from other countries, 4

## Statistics

## STUDENT NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>
Men	286	5
Women	178	4
Total	464	9

DEGREES AWARDED (1960-61) *Arts*: BA, 54  
*Div.* BD, 1, LST, 4 *Sci* - BSc, 23

DIPLOMAS AWARDED (1960-61). *Div*, 4

CERTIFICATES AWARDED (1960-61) Quebec  
interim class I educn, 6



# UNIVERSITY OF BRITISH COLUMBIA\*

Founded 1908

Postal Address: Vancouver 8, British Columbia, Canada

Cables and Telegrams: UB1100

Telephone: CA4-1111

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE

CHANCELLOR—PRINCE'S G. ROSE, MA *Bayk Mass*, Hon. LLD *New Br. & Br. Col.*, BA

PRESIDENT—J. B. MACDONALD, DDS *Tor.*, MSc *Ill.*, Hon. AM *Harc.*, PhD *Cal.*

DEANS—ADMINISTRATIVE AND FINANCIAL AFFAIRS—E. D. MACPHER, MM, BEd *MA Educ.*, Hon. LLD *Alta. & Br. Col.*, Hon. CA, AGRICULTURE—B. EAGLES, MA PhD *Tor.*, BA, FCIC, FRSCan (Animal Sci.), APPLIED SCIENCE—D. M. MYERS, BSc BE DScEng *Syd.*, MIEAust, PIP (Electr. Engin.), ARTS AND SCIENCE—S. N. P. CHANT, OBE, MA *Tor.*, Hon. LLD (Psychol.); COMMERCE AND BUSINESS ADMINISTRATION—G. N. PERRY, MPA MA PhD *Harc.*, BA, EDUCATION—N. V. SCARFE, MA *Lon.*, TOBACCO (Actg. Deans)—R. W. WILLIAMS, MF PhD *Duke*, BAsc, GRADUATE STUDIES—F. H. SOWARD, BA *Tor.*, BLitt *Oxon.*, Hon. LLD *Can.*, FRSCan (Hist.), INTER-FACULTY AFFAIRS—W. H. GAGE, MA Hon. LLD (Maths.), LAW—G. F. CURTIS, QC, LLB *Sask.*, BA BCL *Oxon.*, Hon. LLD *Dal. & Sask.*, Hon. DCL *New Br.*; MEDICINE—J. F. MCCHEARN, MD *Tor.*, FRCPSCan, PHARMACY—A. W. MATTHEWS, MSc *Alta.*, PhD *Flw.*, WOMEN—Mrs HELEN MCCRAE, BA *Tor.*, MSW

REGISTRAR AND SECRETARY OF SENATE—J. E. A. PARNALL, MA *Tor.*, BA BEd

LIBRARIAN—J. RANG, BS *Nebraska State*, AMLS *Mack.*, PhD *Ill.*

## TEACHING STAFF

[†=Part-Time]

### Agricultural Economics

Anderson, W. J., BSA MSc *Sask.*, PhD *Cal.*  
Prof., Chairman of Dept.  
Richter, J. J., DiRerPol *Graz.* Asst. Prof.  
Vines, C., AM *William & Mary*, MA  
EdD *Cal.*, Hon. AHum *Andrew*  
(Adult Educn.) Prof.

Mackenzie, C. D., PhD *Aberd.*, MSA  
(Animal Husb.) Prof., Asst. to Dean  
Kitts, W. D., PhD *Iowa State Agric.*, MSA  
(Animal Husb.) Assoc. Prof., Assoc. Dir.  
of Central Animals Depot  
Neilson, Nora E., PhD *Calif.*, MSA  
(Dairying) Asst. Prof.

### Agricultural Engineering and Agricultural Mechanics

Coulthard, T. L., BE *Sask.*, MSc *Calif.*  
Prof., Chairman of Dept.  
Watson, E. L., MSc *Calif.*, BAsc Asst. Prof.  
Sesley, L. M., MSc *Calif.*, BAsc Asst. Prof.

### Anthropology and Sociology

Hawthorn, H. B., MSc BA *N.Z.*, PhD *Yale*,  
FRSCan (Anthropol.) Prof., Hd. of Dept.  
Belshaw, C., MA *N.Z.*, PhD *Lon.*  
(Anthropol.) Prof.  
Dunning, R. W., MA *Tor.*, PhD *Conn.*  
(Anthropol.) Assoc. Prof.  
Naegele, K. D., BA *McG.*, AM *Cal.*,  
PhD *Harc.* (Sociol.) Assoc. Prof.  
Suttles, W., BA PhD *Wash.*  
(Anthropol.) Assoc. Prof.  
Robson, R. A. H., BSc *Lon.*, PhD *Minn.*  
(Sociol.) Assoc. Prof.  
Chiu, Tung-tsu Assoc. Prof.  
Liu, Chan-jo Assoc. Prof.  
Blasberg, B. R., MA *McG.*  
(Sociol.) Asst. Prof.; Dir., Inst. of Sociol.  
& Econ. Res.  
Cohn, W., BSc C.C.N.Y., PhD *New Sch.*  
*for Soc. Res.*, N.Y. (Sociol.) Asst. Prof.

### Animal Science

Eggle, B., MA PhD *Tor.*, BA, FCIC,  
FRSCan  
(Dairying) Prof., Chairman of Div.  
Berry, J. C., PhD *Iowa State Agric.*,  
MSA (Animal Husb.) Prof.  
Campbell, J. J. R., PhD *Conn.*, BSA,  
FRSCan (Dairying) Prof.  
Wood, A. J., PhD *Conn.*, MSA  
(Animal Husb.) Prof., Dir. of Central  
Animals Depot

\* Member of the Association of Universities of the British Commonwealth

Lyman, S., MA PhD *Calif* (Sociol.) Asst. Prof.  
 Borden, C. E., MA PhD *Calif* (Archaeol.) Lectr.  
 Cheney, G. A., BA *Wash* (Anthropol.) Lectr.  
 Measner, M., BCom (Social) Lectr.  
 Willmott, W. E., MA *McG* (Anthropol.) Lectr.

**Architecture**

Eldon, H., MBE, FRIBA Prof., Dir. of Sch.  
 Wasmuth, B. P., DipEng *Laurel*, MEIC Prof.  
 Oberlander, H. P., BArch *McG*, MCP  
 PhD *Harc* (Planning & Design) Prof.  
 Armstrong, A. H., BArch *Tor*,  
 BLSc *N Y*, Assoc. Prof.  
 Gervon, W., Assoc. Prof.  
 Jackson, J. N., BA *Bum*, PhD *Mass*  
 (Planning) Assoc. Prof.  
 Lyman, V. F., IngArch *Prague* Asst. Prof.  
 Erickson, A. C., BArch *McG* Asst. Prof.  
 Rogatnick, A., BA BArch *Harc* Asst. Prof.  
 Thomas, L. A., J. Asst. Prof.  
 Tiers, C. A., MAArch *M.I.T.*, BArch Asst. Prof.  
 Bunnag, B. C. (Fine Arts) Hon. Lectr.  
 Marsh, L. C., BSc(Econ) *Lond*, MA  
 PhD *McG* Hon. Lectr.  
 McClean, A. K., LLB *Belf* Sp. Lectr.  
 Pullinger, W. W., BArch Sp. Lectr.  
 Dowson, B., BArch *Wash* Lectr.  
 Siemens, H. N., BArch *Manit* Lectr.  
 Wilson, J. W., BSc *Glar*, MSc *M.I.T.*,  
 MRP *N Carolina* Lectr.

**Asian Studies**

Holland, W. L., MA *N Z* Prof., Hd. of Dept.  
 Ho, Ping-ti, BA *Natsh. Tung Hua*,  
 PhD *Cal* Prof.  
 Kato, S., MD *Tokyo* Assoc. Prof.  
 Wang, Y.-t'ung, MA *Yenching*, PhD *Harc*,  
 Assoc. Prof.  
 Howes, J. F., BA *Oberlin*, MA *Cal* Asst. Prof.  
 McKay, J. R., BA *Glar*, MA *Beaton*,  
 PhD *Manit.*, FRSCan Lectr.  
 Suttles, W., BA PhD *Wash* Lectr.  
 Langdon, F. C., MA *Harc*, PhD *Calif* Lectr.

**Bacteriology and Immunology**

Dolman, C. E., MB BS PhD DPH, FRCPCan,  
 FRCP, FRSCan Prof., Hd. of Dept.  
 Duff, D. C. B., MA PhD *Tor* Prof.  
 Stock, J. J., BSA *Tor*, MSc PhD *McG*,  
 Assoc. Prof.  
 Bismarck, J. E., DipBact *Laurel*, MD Asst. Prof.  
 Gerwing, Mrs. Julia, PhD *Lond*, BA Asst. Prof.

**Biology and Botany**

Taylor, T. M. C., MS *Wisc*, PhD *Tor*, BA  
 Prof., Hd. of Dept. & Dir. of Bot. Garden  
 Allardice, J., PhD *McG*, MA Prof.  
 Wort, D. J., MSc *Sask*, PhD *Chc* Prof.  
 Bier, J. E., BScF MA PhD *Tor* Prof.  
 Krugina, V., DSc(NatSci) *Prague* Prof.  
 Scalet, R. F., PhD *Calif*, MA (Oceanog.) Prof.

Pillsbury, R. W., MA Asst. Prof.  
 Cole, Kathleen, PhD *Synth*, MA Asst. Prof.  
 Bandson, R. J., BS *Nevada*, MS PhD *Iowa*  
 Asst. Prof.  
 Roscoe, G. E., BA MSc PhD *McM* Asst. Prof.  
 Bearash, Katherine, PhD *Wisc*, MSA Asst. Prof.  
 Kuyt, J., PhD *Calif*, BA Asst. Prof.  
 Stein, Janet R., BA *Colorado*, MA *Wellesley*,  
 PhD *Calif* Asst. Prof.  
 Schofield, W. B., MA *Stan*, PhD *Duke*  
 Asst. Prof.  
 Martin, Helena, MSc *Aidel* Lectr.

**Business Administration, see Commerce****Chemistry**

McDowell, C. A., DSc *Belf*, FRIC, FCIC  
 Prof., Hd. of Dept.  
 Bryce, W. A., MA *Sask*, PhD *McG*,  
 DPhil *Oxon*, FCIC Prof.  
 Halpern, J., BSc PhD *McG*, FCIC Prof.  
 Harris, J. A., PhD *Ill*, MA, FCIC Prof.  
 Hooley, J. G., PhD *M.I.T.*, MA, FCIC Prof.  
 Reid, C., DIC, BSc PhD *Lond*, FCIC Prof.  
 Stewart, J. R., PhD *Wash*, MA, FCIC Prof.  
 Clark, H. C., MSc *N Z*, PhD *N Z* & *Canb*.  
 Assoc. Prof.  
 Daggett, H. M., Jr., BSc *Que*, PhD *Brown*  
 Assoc. Prof.  
 Dunell, B. A., AM PhD *Penn*, MASC,  
 FCIC Assoc. Prof.  
 Dutton, G. G. S., MA *Canb*, MSc *Lond*,  
 PhD *Manit*, FRIC, FCIC Assoc. Prof.  
 Hayward, L. D., BA *Sask*, PhD *McG*,  
 FCIC Assoc. Prof.  
 James, D. G. L., MA PhD *Canb* Assoc. Prof.  
 Porter, G. B., BS *Calif*, PhD *S Calif* Assoc. Prof.  
 Reeves, L. W., BSc PhD *Brast* Assoc. Prof.  
 Rosenthal, A., BEd MSc *Alta*, PhD  
 Ohio *State* Assoc. Prof.  
 Scott, A. I., BSc PhD *Glar* Assoc. Prof.  
 Bartlett, N., BSc PhD *Dalh* Asst. Prof.  
 Bece, A., BSc PhD *Syd* Asst. Prof.  
 Butler, J. N., BSc *Rensselaer*, PhD *Harc*  
 Asst. Prof.  
 Coope, J. A. R., DPhil *Oxon*, MA Asst. Prof.  
 Cullen, W. R., MSc *N Z*, PhD *Canb*  
 Asst. Prof.  
 Falmer, J. B., BSc PhD *Liv* Asst. Prof.  
 Frost, D. C., BSc PhD *Liv* Asst. Prof.  
 Harrison, L. G., BSc PhD *Liv* Asst. Prof.  
 Harvey, K. B., BA *Tor*, DSc *Lond* Asst. Prof.  
 Hochstrasser, R., PhD *Edm* Asst. Prof.  
 Kutzey, J. P., BSc *Alta*, MSc *Wisc*,  
 PhD *Wisc* Asst. Prof.  
 McCapra, F., BSc *Glar*, PhD *Lond* Asst. Prof.  
 McGraw, D. E., MSc *Alta*, PhD *Ill* Asst. Prof.  
 Ogryzlo, E. A., MSc *Manit*, PhD *McG*,  
 Asst. Prof.  
 Pincock, R. E., BS *Utah*, PhD *Harc* Asst. Prof.  
 Snider, R. F., BSc *Alta*, PhD *Wisc* Asst. Prof.  
 Trotter, J., BSc PhD *Glar* Asst. Prof.

Williams, P. M., BSc *Washington & Lee*,  
PhD *Calif.* (Inst. of Oceanog.) Asst. Prof.  
Muenster, L. B. A. Lectr.  
Pernum, E., MSc *Born* Lectr.  
Taylor, C. A., BSc *McM.*, MSc Lectr.  
Willis, C. J., MA PhD *Cambr.* Lectr.  
13 Post-Doctoral Res. Fellows

### Classics

McGregor, M. F., PhD *Cambr.*, MA  
FRSCan Prof., Hd. of Dept., Asst. to Dean  
Grant, W. L., AM *Harv.*, PhD *Tor.*, BA Prof.  
Riddehough, G. B., AM *Calif.*, PhD *Harv.*,  
MA Prof.  
Guthrie, P. C. F., CD, BA *Manit.*,  
MA PhD *Tor.* Assoc. Prof.  
Eliot, C. W. J., MA PhD *Tor.* Asst. Prof.  
McLeod, W. E., BA *Tor.*, AM *Harv.* Instr.  
Edinger, H. G., BA *Yale*, MA *Penn.* Instr.  
Logan, H. T., MC, BA *McG.*, MA *Oxon*  
Sp. Lectr., Prof. Emer.  
Penner, T., BA *Oxon*, & *Br. Col.* Lectr.  
Eliot, D. P. M., BA *Leid.* †Lectr.

### Commerce, see below

### Economics and Political Science

Young, J. H., AFC, MA *Que.*, PhD *Cambr.*  
Prof., Hd. of Dept.  
Scott, A. D., AM *Harv.*, PhD *Leid.*, BCom  
BA (Econ.) Prof.  
Cramb, J. A., BBA *Wash.*, MS PhD *Calif.*  
(Econ.) Prof.  
Jamieson, S., MA *McG.*, PhD *Calif.*, BA  
(Econ.) Prof.  
Rosenbluth, G., BSc(Econ) *Leid.*,  
BA *Tor.*, PhD *Cal.* (Econ.) Prof.  
Anderson, W. J., BSA *MSc Sask.*,  
PhD *Cal.* (Agric. Econ.) Prof.  
Clark, R. M., AM PhD *Harv.*, BA BCom  
(Econ.) Prof.  
Ranzma, H. E., MSc(Econ) *Tor.*,  
PhD *Leid.* Assoc. Prof.  
Moore, A. M., BA *Que.*, AM *Chic.* Assoc. Prof.  
Lapointe, J., Dipl. Inst. d'Ét. Pol., *Paris*,  
PhD *Calif.* Assoc. Prof.  
Stankiewicz, W. J., MA *St. And.*, PhD *Leid.*  
Assoc. Prof.  
Montague, J. T., BA *W. Ont.*, MA PhD *Tor.*  
Assoc. Prof., Dir. of Inst. of Indust. Relns.  
Smiley, D. V., MEd MA *Alta.*, PhD *North-*  
*western* Assoc. Prof.  
Holmes, R. A., MA *Sask.*, PhD *Indiana*  
Asst. Prof.  
Langdon, F. C., AM *Harv.*, PhD *Calif.*  
Asst. Prof.  
Will, R. M., BA *W. Ont.*, AM PhD *Duke*  
Asst. Prof.  
Richer, J. J., DiRerPol *Grav* Asst. Prof.  
Carr, H. A. C., MA *Tor.* Instr.  
Hobbs, K. J., MA PhD *Stav.* Instr.  
O'Brien, J. C., BCom *Leid.*, MA  
PhD *Notre Dame* Instr.

Richardson, J. D., BCom *Tor.* Instr.  
McGuigan, G. F., MA *Tor.* Lectr.  
Perry, G. N., MPA AM PhD *Harv.*, BA  
(Econ. Devel.) Sp. Lectr.  
Purdy, H. L., MA *Wash.*, Hon. MA *Dart-*  
*mouth*, BA Lectr.  
President Emeritus (Pol. Sci.) Hon. Lectr.  
Angus, H. F., BA *McG.*, MA BCL *Oxon*,  
LLD *McG.* & *Br. Col.*, FRSCan  
Hon. Lectr., Prof. Emer.

### Education, Faculty of

Scarfe, N. V., MA *Leid.* Prof.  
Argue, K. F., BA *Alta.*, MA *Oxon*, EdD *Cal.*  
Prof., Dir. of Summer Session  
Johnson, F. H., DPed *Tor.*, MA  
Prof., Dir. of Elem. Teacher Educn.  
Gilliland, H. C., MA  
Hon. Prof., Dir. of Teacher Educn.,  
Victoria Coll.  
McIntosh, J. R., BA MEd *Sask.*, PhD *Cal.*  
Prof., Dir. of Sec. Teacher Educn.  
Bicorne, E. B., BEd MA  
Prof., Asst. to Dir. of Elem. Educn.  
Stem, H. L., MA *Manit.*, PhD *Manit.*  
Prof., Supervisor of Grad. Studies  
Katz, J., BA MEd *Mont.*, PhD *Chic.* Prof.  
Smith, C. E., BSc *Leid.*, MA DPed *Tor.*,  
LLD *Manit.*, FBPA Prof., Dir. of Res.  
Verner, C., AM *William & Mary*, MA  
EdD *Cal.* Prof.  
Black, S. Prof.  
Boyles, Sadie M., MA  
Prof., Asst. to Dir. of Sec. Educn.  
Corvill, H. M., BA *Sask.*, BEd *Manit.*,  
EdD *Manit.* Prof.  
McGehegan, J., MA  
Prof., Assoc. Dir. of Summer Session  
Ozard, E. G., BA *Wash.* Prof.  
Auld, W. H., EdM *Oregon State*, BA  
Assoc. Prof., Asst. Supervisor of Student  
Teaching  
Bukett, Mrs. Alice G., MA *Calif.*, BA  
BEd Assoc. Prof.  
Boughton, R. C., MSc *Manit.*, PhD *Manit.*  
Assoc. Prof.  
Bredin, Mrs. Grace, BA *Manit.*,  
MSED *Northwestern* Assoc. Prof.  
Brown, L. E., BPE MA *Oregon* Assoc. Prof.  
Cotttingham, Mollie, MA Assoc. Prof.  
Davis, D. E., BA *Calif.*, MEd *Northwestern*,  
DEd *Oregon* Assoc. Prof.  
Deyell, Edith M., BA *Que.*, MA *Cal.*  
Assoc. Prof.  
Ellis, F., BA *Reed*, BEd *W. Wash.*,  
DEd *Harv.* Assoc. Prof.  
Gibbard, D. C., MA *Wash.* Assoc. Prof.  
Gibbard, J. E., MA BEd  
Assoc. Prof., Asst. to Dir. of Sec. Educn.  
Hardwick, F. C., MA Assoc. Prof.  
Kendall, D., MA *Cambr.*, PhD *Manit.*  
(Sp. Educn.) Assoc. Prof.  
Kilgus, A. Jean, MA Assoc. Prof.  
Macdonald, J. A. S. Assoc. Prof.

MacKay, Vera A., BA Tor, MS EdD Indiana	Assoc. Prof.	Barclay, L., BA	Instr.
Penner, P. G., BA BED Sask, MA Wash.	Assoc. Prof.	Brown, Margaret E., BED	Instr.
Slind, L. H., BMus Mont & Sask, EdD Flor	Assoc. Prof.	Deveraux, Mrs. Louise, BPE	Instr.
Smith, D. C., DEd Calif., BA BED	Assoc. Prof.	Gornall, F., BA BED	Instr.
Smith, G. A.	Assoc. Prof.	Gulabson, M., BA BED Sask.	Instr.
Smith, R. N., PhD Col., MA	Assoc. Prof.	Hammarstrom, Louise, BPE	Instr.
Tomkins, G. S., BA BS St.G.Wash, MA McG.	Assoc. Prof.	Leduc, R. J., BED Alta, MS Oregon	Instr.
Truax, C. W., BA BED		Logan, W. J. P.	Instr.
Assoc. Prof., Supervisor of Student Teaching		McIntosh, D. J., MFA Yale, BA	Instr.
Young, J. T., MA BED	Assoc. Prof.	Mitchell, J. R., BPE BED	Instr.
Bayter, Edna, MA Wash, BA	Assoc. Prof.	Sesl, R. F., BED	Instr.
Gamble, F. E., BFA Nebraska, MA C U A, DEd Col	Assoc. Prof.	Stevenson, J.	Instr.
Newton, Myrnie, PhD Minn., BA	Assoc. Prof.	Tilley, Anne, BA McG	Instr.
Campbell, Mrs. P. R., BED Sask, MS PhD Wisc.	Asst. Prof.	Vey, Mrs. Florence, BED	Instr.
Cannon, G. H., BA BED MSc	Asst. Prof.	Watt, N., MS Oregon, BPE	Instr.
Clingman, A. E., MEdus Drake, MA DEd Cal.	Asst. Prof.	Wass, E.	Lectr.
Ellis, J. F., BA MEd		Black, Charlotte S., BSc(HEC) Mont, AM Cal.	Lectr.
Asst. Prof., Asst. to Dir. of Elem Educn		Bald, W., BA BED	Lectr.
Hambleton, D. C., BED Sask, MA		Borden, Mrs. Alice, BA Calif, MEd Tufts	Lectr.
EdD Cal.		Lectr., Dir., Child Study Centre	
Hartuck, W., BA PhD Chic	Asst. Prof.	Goodwin, Mrs. H.	Lectr.
Lanning, W., BLS Cal, BA	Asst. Prof.	Hallamson, Joyce, PhD Munich, MA	Lectr.
Lawson, D., BSS C.N.Y., MA	Asst. Prof.	Heywood, R. H., BA	Lectr.
DEd Cal		Laithwaite, A. B., CD	Lectr.
Meredith, Kathleen L., BA W Ont.	Asst. Prof.	Laycock, S. R., LLD Sask, PhD Lond	Lectr.
Munro, B. C., BA BED Sask, MEd	Asst. Prof.	Livesey, E., BA	Lectr.
PhD Alta		McGregor, M. F., PhD Can., BA	Lectr.
McConnell, Ruth, MA	Asst. Prof.	Parker, Ilon, BA Manc.	Lectr.
McGinn, J. D., MA Can., ED Boston	Asst. Prof.	Renney, A. J., MS Calif, PhD Oregon	Lectr.
MacKenzie, Mrs. Hilda M., BA	Asst. Prof.	State, BSA	Lectr.
McRae, Joyce, BED	Asst. Prof.	Rossman, L. A., BA	Lectr.
Nalevsky, Stanley, BA Sask, BSc McG, MS Mich	Asst. Prof.	Schrodt, Barbara, MS Oregon	Lectr.
Purvis, Viola, MS Tennessee, EdD Tor.		Towell, A. S., MA	Lectr.
		Whittle, H. D., BPHE Tor, MS PhD Oregon	Lectr.
		45 †Assts & Supervisors	
		Also Members of Fac. representing other depts & Victoria Coll.	
		<b>Engineering, Agricultural, see Agric. Engn</b>	
		<b>Engineering, Chemical</b>	
		Forayth, J. S., BSc Glas, PhD Leeds	Prof., Hd. of Dept.
		Cavers, S. D., PhD Cal.Tech., MASC, FCIC	Assoc. Prof.
		Scott, D. S., MSc Alta, PhD Ill, FCIC	Assoc. Prof.
		Epstein, N., MEng McG., EngScD N.Y.	Assoc. Prof.
		Silveston, P. L., MS M.I.T., Dring Munich	Asst. Prof.
		Peterson, R., PhD McG., MASC (Pulp & Paper Technol.) Hon. Lectr Res Assoc.	
		<b>Engineering, Civil</b>	
		Muir, J. F., BSc Mont, MEIC	Prof., Hd. of Dept.
		Finlay, A. H., MC, MS&CE Ill., BASc	Prof.
		Peterson, E. S., MSc Iowa, BASc	Prof.

- Peables, A., MSc *Iowa State Agric*,  
BASC BA, MEIC Prof
- Lipson, S. L., MSc *Cal Tech*, BASc,  
MEIC Prof
- Cherry, S., BSc(CE) *Manit*, MS III,  
PhD *Bust*, MEIC Assoc. Prof.
- de Jong, S. H., MSc *Manit*, MEIC Assoc. Prof.
- Heslop, W. G., BASc *Tor*, MEIC Assoc. Prof.
- Hooley, R. F., MSc PhD *Stan*, BASc,  
MEIC Assoc. Prof.
- Ball, H. R., Dipl *Suvey* MSc(Eng) *Low*,  
BASc, MEIC Asst Prof
- Ruus, E., Grad *Tallinn*, DrEng *T.H.*  
*Karlsruhe* Asst Prof
- Anderson, J. D., MS(CE) *Wash*, BASc,  
MEIC Asst Prof
- Finn, W. D., BE *N U I.*, MSc  
PhD *Wash* Asst Prof
- Nathan, N. D., BSc *Rand*, SM *M I T*  
Asst Prof
- Quick, M. C., PhD *Bust*. Asst Prof
- Tazem, S., MSc PhD *Istanbul* Asst Prof

## Engineering, Electrical

- Noakes, F., BSc *Alta*, MS PhD *Iowa State*  
*Agric*, MEIC Prof, Hd of Dept.
- Myers, D. M., BSc BE DSc(Eng) *Syd*,  
MIEAust, FIP Prof.
- Moore, A. D., MSc *Qu*, PhD *Stan*. Prof.
- Bohn, E. V., Dipl *Nat* Dipl *Math* *Gott*. Prof
- Bardoe, M. P., BSc *Glas*, DIC, PhD *Low* Assoc Prof.
- Bowers, F. K., MA *Canb*. Assoc Prof.
- Kasey, L. R., BASc Assoc Prof.
- Szabaly, J. F., Dipl *Eng* Dipl *Econ* Dipl *Educ*  
Dipl *Econ* *Bud* Assoc Prof
- Yu, Yao-Nun, BS Dipl *Eng* *Tokyo*  
*Inst Tech* Assoc. Prof.
- Soudack, A., BSc *Manit*, PhD *Stan* Asst Prof
- Voss, W. A. G., BSc *Low* Asst Prof
- Berry, F. G., MASE *Tor*. Lectr
- Penn, A. P., BASc Lectr
- Pulkager, W. W., BASc Lectr
- Scott, P., BASc Lectr
- Wallon, G. B., MA *Glas*, PhD *Low* Res Prof
- Demar, J. Res. Assoc

## Engineering, Mechanical

- Richtownd, W. O., MS *Pitt*, BASc, MEIC  
Prof, Hd of Dept.
- Mellroy, H. M., MSc *Qu*. Prof.
- Peterson, G. V., MS PhD *Cal Tech*,  
BASc Lectr, in Aeron Engin., Assoc. Prof.
- Brookley, C. A., PhD *Sheff*, BA BASc  
Assoc. Prof.
- Cox, L., BASc Asst Prof.
- Modi, V. J., BE *Bow*, MS *Wash*,  
PhD *Penn* Asst Prof.
- Young, J., BSc PhD *Glas*, MS III,  
BASc Asst Prof.
- Wighton, J. L., MSc PhD *Manit*, BA  
BASc Asst Prof.
- Rosen, C., BASc Lectr
- Roskub, V. W., BSc *Low*, MSc *Tor*  
Sp Lectr
- Wood, C. E., BSc Sp Lectr

## Engineering, Mining and Geological

- Okulitch, V. J., PhD *McG*, MASE,  
FGSA, FRSCan Prof, Hd of Dept  
(Palaeontol & Stratig)
- Crouch, L. G. R., BSc *Melb*, MSc *Univ*  
(Mining E) Prof
- Howard, H. M., BASc *Tor* (Mineral Dressing) Prof
- Thompson, R. M., PhD *Tor*, MASE  
(Geol E) Prof
- White, W. H., PhD *Tor*, MASE, FGSA  
(Geol E) Assoc. Prof

## English

- Daniels, J. R., PhD *Tor*, BA, FRSCan  
Prof, Hd of Dept.
- Allogg, G. P. V., PhD *Calif*, MA Prof.
- Burney, A. E., MA PhD *Tor*, BA, FRSCan Prof.
- Craighton, J. H., MA *Tor* Prof.
- Lewis, H. C., MA Prof.
- Morrison, E., AM PhD *Calif*, BA Prof.
- Read, S. E., MA *McG*. Prof.
- Robbins, W., PhD *Tor*, MA Prof.
- Steinberg, M. W., MA *Qu*, PhD *Tor* Prof.
- Thompson, W. M., MA *Tor*, M.A. &  
*Oven*, DrPhil *Ber* Prof
- Humphrey, Ruth, BA *Mt All*, MA *Oxou*. Assoc Prof.
- Baker, R. J., MA Assoc. Prof.
- Baxter, Edna L., AM *Wash*, BA Assoc Prof.
- deBruyn, J., MA *Low*, BA Assoc Prof.
- Smith, Mrs. Marion B., MA *Tor*,  
PhD *Penn* Assoc. Prof.
- Spaulding, J. G., AB *Penn*, PhD *Calif*  
Assoc. Prof.
- Thomson, W., MA *Glas* Assoc. Prof.
- Woodcock, G. Assoc Prof.
- Bench, D. M., BA *Reed*, MA PhD *Corn*. Asst Prof
- Chubb, R., BA *Kenn* & *Low*, PhD *Yale*  
Asst Prof
- Fredeman, W. E., BA *Heider*, MA  
PhD *Oklahoma* Asst Prof.
- Goss, E. B., MA *Colorado*, PhD *Can* Asst Prof.
- Hall, W. F., MA *Canb*, PhD *Yale* II, Asst Prof.
- Hopwood, G. V., MA PhD *Tor*, BA Asst Prof.
- Jordan, R. M., AB *Colorado*, MA PhD *Calif*. Asst Prof.
- MacKenzie, Mrs. Isabel, MA PhD *Tor*. Asst Prof.
- Miller, C. W., BEd MA *Sask*, PhD *Wash*. Asst Prof.
- Newby, F. S., BA *Redlands*, MA *Calif* Asst Prof.
- Pinto, A. E., MA *McG*, MLitt *Canb*. Asst Prof.
- Pinkus, P., PhD *Mich*, BA *Tor*. Asst Prof.
- Ross, I. S., MA *St Aust*, BLitt *Oxou*,  
PhD *Tor* Asst Prof

Sawyer, A. E., BA PhD Tor  
 Stephens, D. G., MA *New Br.*, PhD Edm.  
 Tallman, W., BA PhD *Wash*  
 Wigod, J. D., AB NY, AM PhD *Harv*  
 Zilber, J., BA *Wash*, MA *Wash*  
 Jenner, R. L., MA PhD *Wash*  
 Hulcoop, J. F., BA *Lowd*  
 Fredson, A. M., BA *Sampson*, MA  
 PhD *Yale*  
 Morrison, Patricia  
 Mitchell, C. A., BA *Cinc.*, MA *Wash*  
 Stevenson, W., BA *Bush's*, MA *McG*,  
 PhD *Nordstatten*  
 Stockholme, F. E., BA *C C N Y*  
 Tener, R. H., PhD *Lowd*, MA  
 Yoonana, E., BA *Mc All.*, MA *Tor*  
 Connaughty, G. W., BEd *MA Smh*  
 Doherty, J. R., MA *Wash*  
 Elliott, G. R., AM *Harv*, MA  
 Lawrence, J. C., MA  
 Lewis, Mrs. Stella, MA  
 Lewis, J. C., BA *Yale*  
 Lovejoy, Mrs. Adelm., MA  
 Macarone, D., MA *Glar & Br Col.*  
 Morton, M. K., BA *Tor.*, MA *Col.*  
 Nemes, Ruby, MA *McG*  
 Savory, Mrs. Barney, MA *McG*  
 Tedford, Mrs. L., MA *Wash*  
 6 Reps from Fac of Educn.

## Fine Arts

Bunning, B. C.  
 Ciagg, R. C., MA PhD *Tor*  
 Ouard, E. G., BA *Wash*  
 McNaught, I., BA *McM*  
 Black, S.  
 MacDonald, J. A. S.  
 Smith, G. A.  
 Healy, S., BA *Mc All.*, MA *Col*  
 Thomas, L. A. J.  
 Gouldstone, Miss Alice  
 Hatt, W. S., MA *Calif*  
 Kato, S., MD *Tokyo*  
 MacIntosh, D. I., MFA *Yale*, BA  
 Also Reps. from Depts of Archt. and Educn

## Forestry

Wellwood, R. W., MF PhD *Duke*, BASc Prof  
 Knapp, F. M., BSP *Syr*, MSF *Wash*  
 Prof., Dir of Univ. Forest  
 Griffith, B. G., MF *Harv*, PhD *Wash*, MA  
 Assoc. Prof.  
 Haddock, P. G., BS PhD *Calif*, Assoc. Prof  
 Smith, J. H. G., MF PhD *Yale*, BSF  
 Assoc. Prof., Assoc. Dir of Univ. Forest  
 Wilson, J. W., MS PhD *N.Y. State*, Assoc. Prof  
 Graham, K., MSc *McG*, PhD *Tor*, BA  
 (F. Entomol.) Prof.  
 Beer, J. E., BScF MA PhD *Tor*,  
 (F. Pathol.) Prof.  
 Krnjina, V., DSc(NatSc) *Prague*  
 (Bot.) Prof.

Tessier, J. P., BScF *New Br.*, MF *Yale*  
 Asst. Prof., Resident Forester in Tig  
 Adamovich, L., DiplForEng *Sapron* Asst. Prof  
 Fensom, K. G., BScF *Tor*,  
 (Forest Products) Hon. Lectr  
 Munio, D. D., BSF  
 MacQueen, I. C., BASc  
 Leatr  
 Seikins, O., DiplForEng *Sapron*  
 Valg, L., BSF  
 Kennedy, R. W., BS NY *State*, MF  
 Walter, J. M., MF  
 Gibson, J. M., OBE, DSc *New Br & Lowd*,  
 L.D. *Tor*  
 Orchard, C. D., MScF DSc *New Br* Sp. Lectr  
 Dwyer, I. B. (Lumber Grading) Lectr  
 Rolter, K., DiplForEng *Sapron* Res. Assoc  
 9 Reps. from other Facs

## French, see Romance Studies

## Geography

Robinson, J. L., BA *W. Ont.*, MA *Syr*,  
 PhD *Calif*, Prof. Hd. of Dept.  
 Mackay, J. R., BA *Calif*, MA *Boston*,  
 PhD *Alab.*, FRSCan Prof  
 Chapman, J. D., MA *Oxon*, PhD *Wash*,  
 Assoc. Prof.  
 Farley, A. L., PhD *Wisc.*, MA  
 Assoc. Prof.  
 Hosson, D. J. M., MA *Oxon*, PhD *Lowd*  
 Asst. Prof.  
 Hardwick, W. G., MA  
 Stager, J. K., BA *McM*  
 Asst. Prof.  
 Matthews, W. H., PhD *Calif*, MAsc,  
 FGSA, FRSCan Sp. Lectr  
 Watren, H. V., BSc DPhil *Oxon*,  
 BA BASc, FRSCan, FGSA  
 Sp. Lectr.  
 Scarfe, N. V., MA *Lowd*,  
 Sp. Lectr.  
 Wallis, J. H., BA  
 Sp. Lectr.  
 Walton, A. D., BA *Lowd*, MA *Wisc.*  
 Visiting Lectr

## Geology

Okulitch, V. J., PhD *McG*, MAsc, FGSA,  
 FRSCan  
 (Palaentol. & Strat.) R. W. Brock Prof.,  
 Hd. of Dept.  
 Warren, H. V., BSc DPhil *Oxon*, BA BASc,  
 FRSCan, FGSA (Mineral) Prof  
 Mathews, W. H., PhD *Calif*, MAsc,  
 FGSA, FRSCan Prof  
 White, W. H., PhD *Tor*, MAsc, FGSA  
 Prof.  
 Thompson, R. M., PhD *Tor*, MAsc Assoc. Prof.  
 McTaggart, K. C., MSc *Qu.*, PhD *Yale*,  
 BA BASc Assoc. Prof.  
 Best, R. V., DFC, PhD *Prin*, MAsc Asst. Prof.  
 Danner, W. R., MS PhD *Wash* Asst. Prof  
 Ross, J. V., ARCS, DIC, BSc PhD *Lowd*  
 Asst. Prof.  
 Rouss, G. E., BA MSc PhD *McM*, Asst. Prof  
 Somason, C. O., PhD *Wisc.*, MAsc, FGSA,  
 FRSCan Hon. Prof  
 Delavault, R. E., BLet LScSc *DUParr*  
 (Geochem.) Res. Assoc.

## CANADA

- Cockburn, A. E., BSc PhD *Nott.*  
(Geol. Oceanog.) Res. Assoc.  
Williams, M. Y., BSc Qm, PhD Yale, FGSA,  
FRSCan  
Hon. Curator of Museum, Prof. Emer.  
Mackay, J. R., BA Clark, MA *Boston*,  
PhD *Adelphi*, FRSCan Sp. Lectr.  
Yule, R. W., BSc *New Br.*, MA Johns H. Lectr.

## German

- Hallam, Joyce, PhD *Manich*, MA  
Prof., Hd. of Dept.  
Borden, C. E., MA PhD *Calif.* Prof.  
McNeely, J. A., MA PhD *Calif.*, BA Assoc. Prof.  
Krugel, F. A., AB *Albion*, MA PhD *Mass*  
Asst. Prof.  
Betta, M. S., BA *Leid*, DPhil *Frank.* Asst. Prof.  
Goetz, Marketa C., MA PhD *Tor* Asst. Prof.  
Anderson, A. R., BA *Tor* Instr.  
Benamont, R., MA *Calif.*, BA Lectr.  
Egert, E., MA Lectr.  
Hlawats, Mrs. Elisabeth Lectr.  
Miller, L. L., BA *Wales* Lectr.  
Taylor, Mrs. Pauline, MA Lectr.

## Graduate Studies

- Soward, F. H., BA *Tor*, BLitt *Oxon*,  
Hon. LLD *Can*, FRSCan Prof.  
Membership in Fac. hds and fac. reps of  
depts. offering grad. work

## History

- Soward, F. H., BA *Tor*, BLitt *Oxon*,  
Hon. LLD *Can*, FRSCan Prof.  
Prof., Dir. of Internat. Studies, Hd. of  
Dept.  
Ormsby, Margaret A., PhD *Bryn Mawr*, MA  
Prof.  
Ho, Ping-ti, BA *Nat'l. Tsing Hua*,  
PhD *Cal.* Prof.  
Davies, G. O. B., MA *Cambr.* Prof.  
Norris, J. M., MA PhD *Northeastern* Assoc. Prof.  
Nembo, H. B., BA *Sask.*, MA *Ossau*,  
PhD *Tor* Assoc. Prof.  
Hanrahan, Rev. T. J., MA *Tor*, MSL *Greg.*  
Asst. Prof.  
Conway, J. S., MA PhD *Cambr.* Asst. Prof.  
Bocher, J. F., DPhil *Ét. Sup. Paris*,  
PhD *Leid*, BA Asst. Prof.  
Hannetty, P., AM PhD *Harv.*, BA Asst. Prof.  
Pang, Margaret E., MA *Tor*, BA *Manit.*,  
PhD Asst. Prof.  
Winter, J. H., BA *Dartmouth*, MA  
PhD *Harv.* Asst. Prof.  
Cooke, A. C., BA *Manit.*, MA *Ossau*,  
Sp. Lectr., Emer. Prof.  
Hill, L., MA *Frank.*, PhD *Harv.* Instr.  
MacDonald, A. N., BSc BA *Acad.*,  
MA *Brown*, PhD *Wash.* Instr.  
Lawrence, J. C., MA Instr.  
Poupart, G., MA *Tor* Lectr.  
† Reps. from Fac. of Educn.

## Home Economics

- Black, Charlotte S., BSc(HEc) *Manit.*,  
AM *Cal.* Prof., Dir. of Sch.  
Blair, Ruth, MS *Conn.*, BHE  
Assoc. Prof., Dir. of Food Services  
Holder, Mary, BSc(HEc) *Mt. All.*,  
MS *Mich. State* Assoc. Prof.  
MacFarlane, Margaret, BSc(HEc) *Alta*,  
MS *Cal.* Assoc. Prof.  
Smith, Elizabeth, BSc(HEc) *Acad.*,  
MSc *Manit.*, PhD *Ill.* Assoc. Prof.  
Bescher, Winifred J., BSc(HEc) *McG.*,  
AM *Cal.* Asst. Prof.  
Manning, Mrs. Doris E., BA *Southwestern*  
(*Kans.*), MA *Colorado State* Asst. Prof.  
McEachern, Ailsa, BHE Asst. Prof.  
Flynn, Yvonne, MA *Tor* Instr.  
Clara, Rosina, BSc *W. Virginia*,  
MA *Wash. State* Instr.  
Little, Mrs. Heather, BSc(HEc) *Mt. All.* Lectr.  
3 Hon. Lectrs.

## International Studies

- Soward, F. H., BA *Tor*, BLitt *Oxon*,  
Hon. LLD *Can*, FRSCan Prof., Dir.  
Davies, G. O. B., MA *Cambr.* Prof.  
Conway, J. S., MA PhD *Cambr.* Asst. Prof.  
Holsti, K. J., MA PhD *Stan.* Instr.

## Italian, see Romance Studies

## Law

- Curtis, G. F., QC, LLB *Sask.*, BA BCL  
*Ossau*, Hon. LLD *Dal.* & *Sask.*, Hon.  
DCL *New Br.* Prof.  
MacIntyre, M. M., BA *Mt. All.*, LL.M.  
SJD *Harv.* Prof.  
Bourne, C. B., BA *Tor*, LLB *Cambr.* Prof.  
Carruthers, A. W. R., LL.M. *Harv.*, BA LLB  
Mackenzie, N. A. M., CMC, MM & Bar,  
QC, BA LLB *Dal.*, LL.M. *Harv.*, Hon.  
LLD *Mt. All.*, *New Br.*, *Tor.*, *Ott.*,  
*Brist.*, *Alta*, *Glas.*, *Dal.*, *St. F. X.*,  
*McG.*, *Syd.*, *Rock.*, *Calif.* & *Alaska*,  
Hon. DCL *Sask.* & *Whitman*, Hon.  
DSoc *Laval*, FRSCan Hon. Prof.  
Todd, E. C. E., LL.M. *Manit.* Assoc. Prof.  
Herbert, R. G., DFC, BA LLB Asst. Prof.  
Beck, S. M., LL.M. *Yale*, BA LLB  
(on leave) Asst. Prof.  
Huberman, D. M. S., LL.M. *Harv.*, BA  
LLB Asst. Prof.  
Lysyk, K. M., BA *McG.*, LLB *Sask.*,  
BCL *Ossau* Asst. Prof.  
McClellan, A. J., LLB *Belf.* Asst. Prof.  
Branca, A., QC Lectr.  
Brown, D. McK., BCom Lectr.  
Beckett, K. M., BA Lectr.  
Carlyle, W. M., BCom *Qm.*, LLB Lectr.  
Carr, M. C., LLB *Leid.* Lectr.  
Clark, D. M. Lectr.  
Ellis, T. E. H., QC, BA Lectr.  
Dryer, V. L., QC, BA Lectr.

Jahnke, L. G., LLB <i>Sask.</i> , LL.M. <i>Lausl.</i>	Lectr.	Clark, C. W., PhD <i>Wash.</i> , BA	Asst. Prof.
Ladoer, L. J., QC, BA LLB <i>Tor.</i>	Lectr.	Frossa, Charlotte, PhD <i>Canad.</i> , MA	Asst. Prof.
McFarlane, M. M., QC, BA	Lectr.	Kobayashi, S., BS <i>Tokyo</i> , PhD <i>Wash.</i>	Asst. Prof.
Schmetz, G. R., BA LLB <i>Sask.</i> , LL.M. <i>Harc.</i>	Lectr.	Mackosky, E., CandSc <i>Ind.</i>	Asst. Prof.
		Melzak, Z. A., MSc <i>McG.</i> , PhD <i>M I T.</i>	Asst. Prof.
Smith, J. C., LL.M. <i>Yale</i> , BA LLB	Lectr.	Ono, T., DSc <i>Nagoya</i>	Asst. Prof.
Smith, W. K., BA <i>Manit.</i> , LLB	Lectr.	Restrepo, R. A., PhD <i>Cal Tech.</i> , BA <i>Lehigh</i>	Asst. Prof.
Tuck, W. D. C., LLB	Lectr.	Schwartz, Loraine, PhD <i>Calif.</i>	Asst. Prof.
Ruttan, Hon. Mr. Justice, MA BCL <i>Oxou.</i>	Lectr.	Scott-Thomson, J. F., MA <i>Tor.</i>	Asst. Prof.
Priestly, Diana M., MLL <i>Wash.</i> , BA LLB	Lectr.	Smith, J. E., BA <i>BEd.</i>	Asst. Prof.
Watts, A., AFC, ED, BCom	Lectr.	Thompson, R. C., PhD <i>Cal Tech.</i> , MA	Asst. Prof.
Paiker, G. E., LLB <i>Adel.</i>	Visiting Lectr.		

## Librarianship

Rothstein, S., BLS <i>Calif.</i> , PhD <i>Ill.</i> , MA	Prof., Dir. of Sch.	Westwick, R., MA PhD	Asst. Prof.
Vincent, Rose, BA <i>Manit.</i> ( <i>Ohio</i> ), BLS <i>W. Reserve</i> , MS <i>Ill.</i>	Assoc. Prof.	Whittaker, J. V., PhD <i>Calif.</i>	Asst. Prof.
Hamilton, R. H., BA BLS <i>McG.</i>	Asst. Prof.	Buchanan, Mrs. Melba, MA	Instr.
Hagler, R. A., BA <i>Ont.</i> , AMLS <i>AM</i> PhD <i>Mich.</i>	Instr.	Ellis, K. C., BA <i>Hawaii</i> , MA <i>Calif.</i>	Instr.
Egoff, Sheila, BA <i>Tor.</i> , DipLib <i>Lausl.</i> , FLA	Instr.	MacPherson, E., MA	
Fraser, Dorcas, BA <i>Alta.</i> , BLS <i>Tor.</i>	Lectr.	Cleveland, Mrs. Sandra, BS <i>M I T.</i> , MS <i>Calif.</i>	Lectr.
Lanning, W., BLS <i>Cal.</i> , BA	Lectr.	Dempster, H., MA	Lectr.
Smith, Anne M., BSLibSc <i>Wash.</i> , MA <i>Mich.</i> , BA	Lectr.	Newberry, A. C. R., BA <i>Canad.</i> & <i>Lausl.</i> , MA	Lectr.
Breakley, Mrs. Anne, BA <i>Manit.</i>	Lectr.	Parnall, J. E. A., MA <i>Tor.</i> , BA <i>BEd.</i>	Lectr.
Smith, R. D. H., FLA	Lectr.	Smith, Mrs. C. E., PhD <i>Tor.</i>	Lectr.
		Stank, Ruth R., MA <i>Ill.</i> , PhD <i>N.Y.</i>	Lectr.
		Traves, K. J., BA <i>MEd.</i>	Lectr.
		Steen, H. L., MA <i>Manit.</i> , PhD <i>Manit.</i>	Hon. Lectr.

## Medicine, see below

## Metallurgy

Forward, F. A., BASc <i>Tor.</i> , FIM, PCIC	Prof., Hd. of Dept.	Armstrong, W. M., BASc <i>Tor.</i>	Prof.
		Samra, C. S., MSc <i>Manit.</i> , PhD <i>Lausl.</i>	Prof.
		Teghtsoonian, E., BASc MA PhD <i>Tor.</i>	Assoc. Prof.
Ekstrand, B. B., DimplingChem FL <i>Stockholm</i>			
Lund, J. A. H., PhD <i>Bern.</i> , BASc	Asst. Prof.		
Peters, E., MAsc PhD	Asst. Prof.		
Adams, W. S., BASc	Lectr.		
Armstrong, Mrs. A. Margaret, MA <i>Tor.</i>	Lectr.		
Halpern, J., BSc PhD <i>McG.</i>	Hon. Lectr.		
3 Res. Assoc.			

## Music

Marquis, G. W., MA <i>Whitman</i> , PhD <i>S. Calif.</i>	Prof., Hd. of Dept.	Adaskin, H.	Prof.
		Davis, D. E., MMus <i>Northwestern</i> , BEd <i>Oregon</i>	Assoc. Prof.
		Slind, L. H., BMus <i>Manit.</i> & <i>Sask.</i> , EdD <i>Flor.</i>	Assoc. Prof.
		Gibbard, D. C., MA <i>Wash.</i>	Assoc. Prof.
		Morris, R. B., MM <i>U T S (N.Y.)</i> , DrVocalPed <i>Indiana</i>	Assoc. Prof.
		Clingman, A. E., MMus <i>Drake</i> , MA EdB <i>Cal.</i>	Asst. Prof.
		Gamble, F., MA <i>C.U.A.</i> , EdD <i>Cal.</i>	Asst. Prof.
		Hulberg, C., MS <i>Ill.</i> , MM <i>Arizona</i>	Asst. Prof.
		Pittz, H. K., MM <i>Northwestern</i>	Asst. Prof.

## CANADA



Pioch, G. A., BA *Maid*, MM  
PhD *Roch.*  
Wengarten, E., MM *Eastman*  
Adams, Mrs. Jean C.  
Davis, S., MM *Manhattan Sch.*  
Huberman, Mrs. Barbara P.  
Talney, D., MM, S *Calif*  
14 Instrumental Lectrs

## Nursing

Mallory, H. Evelyn, BSc AM *Cal.*  
Prof., Dir. of Sch.  
Morrison, Ruth, BS *Minn.*, AM *Cal.* Assoc. Prof.  
McCann, Elizabeth K., MSN *Wayne*, BA  
BASC Assoc. Prof.  
Capelle, Pauline, AM *Chc.*, BA BASC Asst. Prof.  
Duncan, Margaret W., MS *Chc.*, BA BASC  
Asst. Prof.  
Street, Margaret M., BA *Manit.*,  
MS *Boston* Asst. Prof.  
Campbell, Margaret A., MS *Western Reserve*,  
BA BASC Asst. Prof.  
Cawston, H. Elizabeth, BSN  
Spens, Margaret E., BSN  
Neylan, Mrs. Margaret, BN *McG.*  
Baumgart, Alice, BSN  
Halspin, Sheila, BSN  
Pallister, Ruth M., BSN  
Sagimoto, Miss Tomiko, BSN  
Walton, Elizabeth A., BSN  
Monson, Joan D., MA *Cal.*, BASC  
Insts.; Nursing Super. vascor, Child Health  
Programme  
7 Lectrs; 1, 21 Clin. Insts., 58 Field Supervisors

## Pharmacy

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## Theatre

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 FRCPCan Instr  
 [Clinical Associate Professors  
 Baird, M. M., BA *Near Br* & *Oxon*, BM BCh  
*Oxon*, FRCP, FRCPCan  
 Boyd, R. W., BSc *Alta*, MD CM *McG*, (Radiol)  
 Gould, C. E. G., MD *S. Calif*, BA (Neurol)  
 Kincade, G. F., MD CM *McG*  
 Munroe, D. S., BSc *Sask*, MD *Manit*,  
 FRCPCan, FACP  
 [Clinical Assistant Professors  
 McNair, A. Y., MC, MB *Tor*  
 Palmer, R. A., MD CM *McG*, BA, FRCPCan,  
 FACP, FRCPed  
 Thomas, J. P. W., MD CM *Del* (Microscopy)  
 Walker, J. E., MB *Tor*  
 Honorary Lectures  
 Trapp, Ethlyn, BA MD CM *McG*, DSc  
 (Therapeutic Radiol.)  
 [Clinical Instructors  
 Auckland, N. L. D., BA *Sask*, MD *Manit*.  
 (Neurol.)  
 Beck, R. E., MD CM *Qu*, FRCPCan  
 Bogoch, A., MD BSc(Med) *Tor*, DSc *Pen*,  
 FRCPCan, FACP  
 Boxall, E. A., MD CM *Qu*, FRCPCan  
 Boyce, K. C., MD CM *Qu*, BA  
 Caldwell, J. W. G., MD *Alta*, FACP  
 Christopherson, E. F., BSc *Sask*, MD *Manit*,  
 FACP, FRCPCan  
 Coverton, C. C., MD CM *McG*, BA  
 Donovan, E. G., MB ChB *Lse*. (Radiol.)  
 Garner, P. O., MD DPH *Tor*, BA  
 Garrow, D. G., MB ChB *St And* (Radiol)  
 Gofton, J. P., MD CM *McG*, FRCPCan  
 Hasselback, R. C., BA *Sask*, MD CM *McG*,  
 FRCPCan  
 Henry, E. W., MD *Bel*, FRCPCan  
 Hestman, V. O., MD *Tor*, FRCPCan, FACP  
 Hurlbert, F. W. B., BSc *Sask*, MD *Tor*,  
 FRCPCan  
 Johnson, A. M., MD *W. Ont*, FRCPCan  
 Johnston, Margaret M., MD CM *McG*, BA  
 (Dermatol.)  
 Jones, D. P., MD ChB *Lse*. (Neurol.)  
 Kance, B., MD *Manit*. (Dermatol.)

Leroux, J. A., BSc *Sask.*, MD *Manit.*, DPH *Tor.*,  
FRCPCan  
Matheson, A. K., MD CM *McG.*, BA,  
FRCPCan, FACP  
Mitchell, J. C., MD *Leind.* (Dermatol.)  
Morse, P. W., BA *Sask.* & *Ovsn.*, BM BCh  
*Ovsn.*  
Morton, J. W., MD CM *McG.*, BA  
Moscovitch, B. B., MD *Alta.*  
Moscovitch, J. C., MD CM *McG.*, FACP  
Mowat, D., MD *Manit.*, FRCPCan  
Murphy, H. O., MD CM *Qu.*  
MacLean, C. A., MD CM *McG.*, BA, FRCPCan  
McLean, T. K., MD *Alta.*, FRCPCan, FACP  
Nelson, J. D., MB ChB *Glas.* (Radial.)  
Page, B., MB BS *Syd.*  
Parnell, J. L., MB ChB *Edin.*, BA, FRCPCan,  
FACP  
Parker, A. C., MB ChB *Glas.*  
Reid, J. A. G., MD *Tor.*, FRCPCan  
Remick, C. S., MD *Manit.*  
Robinson, C. E. G., MD CM *Qu.*, FRCPCan  
Robinson, H. S., BSc MD CM *McG.*  
Scott, H., BSc *Alta.*, MD CM *McG.*  
Shallard, B. T., MB ChB *Syd.*, MD *Melb.*  
Shaw, M. H., MD CM *Qu.*, FRCPCan  
Shiers, J. A., BA *Canb.*, MB ChB *Manit.*  
(Radial.)  
Simpson, W. W., MA PhD MD *Tor.*, BA, FACP  
Shade, H. C., MD CM *Dal.*, FRCPCan  
Stalke, H. S., MD *Manit.*  
Stanfield, H., BSc MD *Alta.*  
Stewart, W. D., MD *Wash.*, FRCPCan  
(Dermatol.)  
Taynor, J. A., BA *Sask.*, MD *Tor.*, FRCPCan  
Trautman, G. E., BA MD *Manit.* (Radial.)  
Walsh, G. C., MD CM MSc *McG.*, BA,  
FRCPCan, FACP  
Walters, M. B., MD *Manit.*, FRCPCan  
Wood, W. S., MD CM *McG.*, BA (Dermatol.)  
Zeldowicz, L., MD *Warsaw* (Neurol.)  
† Dent, 2 Fellows

## Obstetrics and Gynaecology

Bryant, F. E., MD BSc *Tor.*, FRSCCan  
Prof., Hd of Dept.  
Boyd, J. R., MD CM *McG.*, BA, FRSCCan  
† Asst. Prof.  
deMaria, F. J., MD *Malta* Asst. Prof.  
Bue, W. F., BSc *Sask.*, MD CM *McG.*  
Chn. Assoc. Prof.  
Harstein, A., MD *Manit.* Chn. Asst. Prof.  
Johnston, F., MD *Alta.*, FACS Chn. Asst. Prof.  
Mallat, J. W., MD *Manit.* Chn. Asst. Prof.  
Turko, M., MD *Tor.* Chn. Asst. Prof.  
Roxey, D. A., MD CM *Qu.* Clin. Instr.  
Collison, D. B., MD CM *McG.* Clin. Instr.  
Hobbs, F. S., BSc *Alta.*, MD CM *McG.*,  
FACS Clin. Instr.  
Huang Chang, Medicine, MD *YaleMed*  
Calif. Chn. Clin. Instr.  
Krausman, A., MD *Manit.*, FRSCCan  
Clin. Instr.  
McDonagh, J. E., MD *Manit.* Clin. Instr.

MacEwan, W. R., MD *Alta.* Clin. Instr.  
Nickerson, K. G., BSc *Alta.*, MD  
CM *McG.*, FRSCCan Clin. Instr.  
Rosa, J. E., MD *Qu.*, BA Clin. Instr.  
Smith, G. G., MD *Tor.*, FRSCCan Clin. Instr.  
Tynce, F. W., BSc MD *Alta.* Clin. Instr.  
Wadman, H., MD CM *McG.*, FRSCCan  
Clin. Instr.

† Teaching Fellow, † Res. Fellow

## Paediatrics

Graham, B. D., AB *Alabama*,  
MD *Vanderbilt* Prof., Hd of Dept.  
McCreezy, J. F., MD *Tor.*, FRCPCan Prof.  
Young, M. D., MA MB BChir *Canb.*  
FRCPCan Assoc. Prof.  
Segal, S., BSc *McG.*, MD CM *Qu.*, MA  
Assoc. Prof.  
Robinson, G. C. F., MD CM *Qu.*,  
FRCPCan Asst. Prof.  
Dunn, H. G., MB BChir *Canb.*, MA  
Gibson, W. M., BA *New Br.*, MD  
CM *McG.* † Asst. Prof.  
Kendall, D., MA *Canb.*, PhD *Manit.* † Asst. Prof.  
Miller, J. R., MA *Tor.*, PhD *McG.* Asst. Prof.  
Mullings, Margaret, MD *Tor.* Asst. Prof.  
Reid, J. H., BSc MD CM *McG.*,  
DPH *Tor.* Asst. Prof.  
Tevendale, J., Mava, MB ChB *Leeds*  
Whitelaw, J. W., MD CM *McG.*, BA  
Clin. Assoc. Prof.  
Wilson, R. A., MD CM *McG.*, BA,  
FRCPCan Clin. Assoc. Prof.  
Hardy, A. F., MD *Manit.* † Clin. Assoc. Prof.  
Baker, H., MD *Tor.* † Clin. Asst. Prof.  
Denn, J., MB BChir *Canb.* Chn. Asst. Prof.  
James, E. S., MD *Tor.* † Clin. Asst. Prof.  
Kivell, H., MD *Alta.* Chn. Asst. Prof.  
MacLean, J. R., MD *Tor.* Chn. Asst. Prof.  
Peters, J., MD *Tor.*, BA Chn. Asst. Prof.  
Shuman, B., MD *Tor.* Chn. Asst. Prof.  
Keri, G. R., MD CM *Tor.* Instr.  
Vince, D. J., MD *Tor.* Instr.  
Brummitt, J. R., MD Instr.  
Campbell, K. A., MD CM *McG.* Clin. Instr.  
English, E., PhD *W. Ont.*, MA Clin. Instr.  
Gayman, G. R., BA MD *Tor.* Clin. Instr.  
Hall, R., MA MB *Oxon.* Clin. Instr.  
Hingston, J., MD *N.U.I.* Clin. Instr.  
Mashel, J., BA MD CM *Barut* Clin. Instr.  
Michaels, F., MD *Vancouver* Clin. Instr.  
Padwick, P. H., MB BS *Leind.* Clin. Instr.  
Poole, J. K., MD CM *McG.*, BA Clin. Instr.  
Stockton, W. H. S., MD *Tor.* Clin. Instr.  
Treffry, C. J., MD *Tor.* Clin. Instr.  
MacLennan, Jean M., MD ChB *Edin.*  
DPH *Glas.* Clin. Instr.

4 Demer., 5 Res. Fellows, 2 Teaching Fellows

## Pathology

Taylor, H. E., MD CM *Dal.*, FRCPCan,  
FRCPEd Prof., Hd. of Dept.  
Pearce, R. H., MSc PhD *W. Ont.* Assoc. Prof.  
Vassas, P. S., MB BS *Leind.* Assoc. Prof.

## CANADA

Chase, W., BSc MD CM *McG* Assoc. Prof.  
Shepherd, W. E., BSc MD *Manit.*

Asst. Prof., Multiple Scholar in Med. Sci.  
Tyttes, A. E. W., MD CM *McG*, BA Asst. Prof.  
Podde, H. K., MD BSc *Manit.* †Clin. Prof.  
Eden, J., MB BS *Dalh.* †Clin. Prof.  
Pitts, H. H., MD CM *McG* †Clin. Assoc. Prof.  
Astinay-Dolman, Mrs. Clarissa, MD Tor.,  
BA Clin. Asst. Prof.  
Leach, W., MD *Manit.*, MSc *McG*.

†Clin. Asst. Prof.  
Sturdy, J. H., MD *Alta.* Clin. Asst. Prof.  
Chisholm, H. A., MD CM *Dal.* Clin. Instr.  
Coady, C. G., MD CM *McG*, BA Clin. Instr.  
Harmon, T. R., MD *Alta.* Clin. Instr.  
Phanney, J. I., BA BSc *Acad.*, MSc *Dal.* Clin. Instr.

Sputzer, R., AB *Corn.*, PhD *Cal Tech.*,  
MD *Manit.* Clin. Instr.  
Sturrock, F. L., MB ChB *Edin.* Clin. Instr.  
Culling, C. F. A. Instr.  
Oh, J. O., MD *Seoul*, PhD *Wash.*

Hon. Res. Assoc.  
Amsberg, Nelly, MD *Wash.* Hon. Res. Asst.  
Shintani, Y. K., MSc PhD *McG*  
Med. Res. Council Res. Asst.  
Museum Curator, †Teaching Fellow

### Pharmacology

Foulka, J. G., BA *Paris*, PhD *Johns H.*,  
MD *Calif.* Prof., Hd. of Dept.  
Drummond, G. I., MSc *Alta.*, PhD *Wu.* Assoc. Prof.

Perry, T. L., BA *Oxon*, AB MD *Harv.* Assoc. Prof.  
Dower, G. E., MB BS *Leind.* Asst. Prof.  
Ling, G. M., BA *McG*, MA *PhD* Asst. Prof.  
Perry, Florence, MSc *Dal.*, PhD *Tor.* Asst. Prof.  
†Fellow

### Physiology

Copp, D. H., BA MD *Tor.*, PhD *Calif.*,  
FRSCan Prof., Hd. of Dept.  
Black, E. C., MBE, BA *McM.*, PhD *Penn.*,  
MA, FRSCan Prof.  
Noble, R. L., MD *Tor.*, PhD *Dalh.* Prof.

FRSCan Prof.  
McJannet, H., MSc PhD *McG*, Assoc. Prof.  
Cramer, C. F., MS *New Mexico*, PhD *Calif.* Asst. Prof.  
Lotz, F., BA MSc PhD *W. Ont.* Asst. Prof.  
Weit, M. C. L., BA MD Instr.  
2 Demos, †Fellow

### Preventive Medicine

Mather, J. M., MD DPH *Tor.* Prof., Hd. of Dept.  
Elliot, G. R. F., MD CM *Qu.*, DPH *Tor.* †Prof.  
Anderson, D. O., SMNHg *Harv.*, BA  
MD, FRSCan Asst. Prof.  
Nelson, A. J., MD ChB *Glas.*, DPH  
†Clin. Assoc. Prof.  
Amyes, G. F., MB DPH *Tor.*  
(Admin.) Hon. Lectr.

Wilson, W. A., BA MD *Tor.*, FRSCan  
(Ethics) Hon. Lectr.  
Adams, J. R., MSc PhD *McG*, (Parasitol.) Lectr.  
King, D. M., MD *Tor.* Clin. Instr.  
Larsen, A. A., MD *Alta.*, DPH *Tor.*,  
MPH *Manit.*, BA Clin. Instr.  
Stanley, R. A., MD *Manit.* Clin. Instr.  
Walsh, A. C., MD *Alta.*, BA Clin. Instr.  
Willets, Reba E., MD DPH *Tor.* Clin. Instr.  
Wilson, R. G., MD CM *McG*, BA Clin. Instr.  
†Res. Fellow

### Psychiatry

Tyhurst, J. S., BSc MD CM *McG* Prof., Hd. of Dept.  
Gibson, W. C., MSc MD CM *McG*,  
DPhil *Oxon*, BA, FACP Res. Prof.; Kinsmen Prof., Du., Kinsmen Res. Lab.  
Margetta, E. L., MD CM *McG*, BA Assoc. Prof.  
Watterson, D. J., MD BChir *Camb.*,  
DPM *Leind.* Assoc. Prof.  
McGee, P. L., PhD *Prin.*, BA MD  
(Kinsmen Res. Lab.) Asst. Prof.  
Richman, A., MD *Manit.*, MPH *Johns H.* Asst. Prof.

Wade, J. A., MD DMSc *Hokkaido*  
(Kinsmen Res. Lab.) Asst. Prof.  
Fisher, K. J., MD *Leind.* †Insti.  
Davidson, G. A., MD *Manit.*, FRSCan,  
FACP †Clin. Prof.  
Gee, A. M., MD CM *Qu.* †Clin. Prof.  
Zeldowicz, H., MD *Russe* Clin. Assoc. Prof.  
Davidson, A. E., MD *Alta.*, BA Clin. Asst. Prof.  
Hutton, G. H., MD DPH *Tor.* Clin. Asst. Prof.  
Thomas, J. C., MA *MB Tor.* Clin. Asst. Prof.  
Warren, A. J., MD *Manit.*, DPM *Leind.* †Clin. Asst. Prof.  
Gundry, C. H., MD *Tor.* Hon. Lectr.  
Menzies, A. M., MD CM *Qu.* Hon. Lectr.  
Wilson, J. R., MD *Qu.* Hon. Lectr.

### Clinical Instructors

Goresky, W. V., BSc MD *Alta.*  
Halliday, R., MB ChB *BAO Belf.*, DPM *Manit.*  
Hut, N. B., BA *Sask.*, MD CM *Qu.*  
Kaplan, S., MD *Tor.*  
Kerwood, L. A., BA *Camb.*, MD DPM *Dalh.*  
Leyland, E. R., MD BS *Leind.*  
Lendenfeld, Elda, MD *Vienne*  
McNair, F. E., MD CM *McG*, BA  
Walsh, J., MB ChB *BAO N.U.I.*  
Whitman, R. L., BSc *Sask.*, MD CM *McG*,  
DPM *Leind.*  
2 Demos, †Teaching Fellow, 4 Res. Assoc.,  
3 Res. Fellows (Kinsmen Res. Lab.)

### Rehabilitation Medicine

Fahni, B. M., MD *Manit.*, FRSCan  
(Med.) Assoc. Prof., Der. of Sch.  
Donnelly, K. R., BA MD Asst. Prof.  
Hood, Margaret, DipPhysHealth&Educn  
DipOccupTherapy *Tor.* Instr.  
Hudson, W. Jane, DipPhysiotherapy  
DipTeachPhysTherapy *Tor.* Instr.

Howard, H. S.  
 Lectr  
 Demr, 16 Lects, †, Hon Lect

# Surgery

McKenzie, A. D., MD *Alta*, FRCSCan,  
 FACS Prof, Hd. of Dept  
 Elliot, A. J., MD *Tor*, MedScd Cal, BA,  
 FRCSCan Prof  
 Johnstone, F. R. C., MB *Edu*, MSc,  
 FRCSed, FACS Assoc Prof  
 Patterson, F. P., MD CM *McG*, FRCSCan,  
 FACS Assoc Prof  
 Chung, W. B., MD *McG*, FRCSCan Asst Prof  
 Christensen, R. M., BA MD, FRCSCan Instr  
 Sargeant, T. R., MD *Tor*, BA, FRCS,  
 FRCSCan, FACS †Cln Prof  
 Jenkins, L. C., BA MD CM *McG*,  
 FRCSCan Cln Asst Prof

# †Clinical Associate Professors

Balfour, J. A., MD *Alta*, FRCSCan  
 Francis, G. H., BA MD *W Ont*,  
 Gausling, R. H., MD CM *McG*, FRCSCan  
 Graves, H. B., BA MD CM *McG*,  
 McLean, J. A., MD *Tor*  
 Tutinbull, F. A., MD *Tor*, BA

# †Clinical Assistant Professors

Ashmore, P. G., MD *Tor*, FRCSCan  
 Beucher, H. H., MD CM *McG*, MSc *Iowa*  
 Chang, J., MD *Tor*, FRCSCan  
 Colbeck, J. C., MB BS *Leed*  
 Cowen, R. J., MD *Tor*, FRCSCan  
 Dodds, W. A., MD *Tor*  
 Elliot, J. A., MD *Tor*, FRCSed, FACS  
 Evans, A. M., MD CM *McG*, DMRE *Canad*  
 Harrison, W. E., MD *Manit*, FACS  
 Huggard, L. H. A. R., MD *Tor*, FACS  
 Lehmann, E. C. H., MD *Tor*, FRCSCan  
 Morton, K. S., MD *McG*, BA MSc, FRCSCan  
 Macartney, H. H., MB ChB BAO *Belf*,  
 FRCSCan  
 McConkey, A. S., MD *Alta*  
 Robertson, R., MD *Tor*, FRCSCan, FACS  
 Simpson, D., MB ChB *N Z*, DOMS *Leed*,  
 FRCS, FRCSed  
 Sutcliffe, W. H., MD CM *McG*, FRCSCan  
 Tanton, B. W., MD *McG*  
 Williams, L. R., MD *McG*, FRCSed, FRCSCan  
 Wilson, R., MD CM *McG*, FRCSCan, FRCS,  
 FACS

# †Clinical Instructors

Alexander, E. H., MD *Manit*.  
 Allen, C. S., MD ChM *Manit*, MS *Manit*,  
 FRCSCan, FACS  
 Allen, P., MD *Tor*, FRCSCan  
 Ambrosman, G. J., MD CM *Qu*, FRCSCan  
 Arbuckle, J. W. Jr., MD CM *McG*, FRCSCan  
 Austin, W. E., MD *Manit*, FRCSed, FRCSCan,  
 FACS  
 Badger, G. A., MD *Alta*.  
 Blair, N. J., BSc MD *Manit*.  
 Burnes, J. S. D., MD *Manit*, FACS  
 Cambon, K. G., BA MD CM *McG*.  
 Carroll, J. J., BA *Bishop's*, MD CM *McG*

Chambers, H. L., BA *Sask*, MD *Tor*.  
 Charlton, W. J., MD *Manit*, FRCSCan  
 Claman, M., BA *Sask*, MD *Tor*, FRCSCan  
 Chaff, J. W., BSc *Sask*, MD *Manit*, FRCSCan  
 Cohen, A., MD *Manit*.  
 Cook, C. E., MD *Alta*, FRCSCan  
 Cooper, H. G., BA MD *Alta*.  
 Crawford, G. M., MD *W Ont*.  
 Davies, C. E., MD *Alta*.  
 Davies, Lora, MD *Tor*.  
 Ellison, Lillian, MD *Manit*.  
 Fahnestock, W. H., MD *Manit*, MChOrth *Lev*,  
 FRCSed, FRCSCan  
 Farish, J. R., MD *McG*, BA, FRCSCan  
 Fleming, K. O., MD CM *McG*, BA  
 Flitkin, L. B., BSc MD *Alta*, FRCSCan  
 Frost, J. W., MD CM *McG*, BA, FRCSed,  
 FRCSCan  
 Fulton, J. B., BA MD *Alta*.  
 Gatzhorn, J. A., MD *Manit*, MS *Manit*.  
 Gibson, J. M. W., BSc MB ChB *Glas*  
 Gillespie, H. S., MD *Tor*, FRCSCan  
 Goodman, G. B., MB ChB *Edu*  
 Hall, E. R., BSc MD *Alta*.  
 Hall, M. E., BA MD *Tor*, FRCS  
 Hall, W. M., MD *Alta*.  
 Hudson, P. W., MD *Alta*.  
 Hugill, Jean T., BSc MD *Alta*.  
 Inglis, A. M., MD *Manit*, FRCSCan  
 Irving, J. A., MD *Qu*.  
 Jackson, P. P., BSc *E Central State*, MD *Oklahoma*,  
 FACS  
 Johnston, G. C., BA MD *Alta*, FRCSCan,  
 FACS  
 Kester, H. A., BA MD *W Ont*.  
 Large, G. C., MD *Tor*, FACS  
 Lehmann, P. O., MD *Manit*.  
 Lockhart, H. B., BSc *New Br*, MD *Tor*,  
 FRCSCan  
 MacDougall, J. A., MD *Manit*, FRCS,  
 FRCSCan  
 McKechnie, R. E., MD CM *McG*.  
 McKinley, W. D., MD CM *McG*, BA  
 Mattinson, B. T. H., BSc MD *Manit*, FRCS  
 Matheson, D., MB ChB *Aberd*, FFARCS  
 Minnes, J. F., MD *McG*.  
 Morton, W. A., MB ChB *Edu*, FRCSed  
 Moyes, P. D., MB BS *Leed*, MS *Manit*,  
 FRCSCan  
 Musgrove, J. E., MD *Manit*, FRCSCan  
 Nixson, J. E., MD *W Ont*.  
 Oiler, T. R., MD CM *McG*, FRCSCan  
 Oulton, J. L., BSc MD *McG*.  
 Paene, R. J., MD CM *McG*, BA  
 Patterson, W. J., MD *Ont*.  
 Perchason, P. B., MD CM *Qu*, FRCSCan  
 Perrott, T. S., BA MD *Tor*, FRCSCan  
 Poole, J. C., MD *Manit*.  
 Preston, F. C., MD BSc *Tor*, FRCSCan  
 Randall, H. S., BA *New Br*, MD CM *McG*.  
 Raynor, E. F., MD CM *Qu*.  
 Rees-Davies, P., FRCS, FRCSCan, FACS  
 Robins, R. E., MD *W Ont*, FRCSCan  
 Sands, C. A., BA *Sask*, MD *Tor*.  
 Sandy, J. T. M., MD *W Ont*, FRCSCan



Sutton, G. D., MD *Mount.*, FRCSed  
 Schultz, M. H., MD *Que.*  
 Simpson, R. E., MD *Que.*, MA  
 Sleath, G. E., MD *Alta.*, BA  
 Smith, E. L., MD CM BSc BA  
 Smith, H. A., BA *Comb.*, MB BCh *Bell.*,  
 FRCSed, FRCSCan  
 Sparkes, J. W., MD *Tor.*  
 Starr, D. E., MD *Tor.*, FACS  
 Stewart, A. J., MD *McG.*, BA  
 Taylor, W. R., BSc *New Br.*, MD CM *McG.*  
 Thompson, G. B., BSc *Mount.*, MD CM *McG.*,  
 FRCSCan  
 Thompson, W. J., BSc *Sask.*, MD *Mount.*,  
 FRCSCan  
 Thomson, F. B., BA MD *Tor.*, FRCSCan  
 Trapp, W. G., MD *McG.*, FRCSCan  
 Walcott, D. B., BSc MD *McG.*, FRCSCan  
 Webb, E., MD *W. Ont.*  
 Wilson, J. W., MD CM *McG.*, FRCSCan  
 Wilson, W. M. G., BA *McM.*, MD *Tor.*  
 Wood, L. G., MD *Alta.*, FRCSCan  
 Woodsworth, R. S., MD *Mount.*  
 Word, E. F., BS *Oklahoma Baptist*,  
 MD *Oklahoma*, FRCSCan, FACS  
 : Teaching Fellow

## UNIVERSITY EXTENSION

Friesen, J. K., DFC, BA *Mount.*, AM  
 EdB *Col.* Dir  
 Selman, G. R., BA Assoc Dir

Coutis, E. B., BA BEd  
 Asst. Dir ; Hd, Liberal Educn Div.  
 Smith, Marjorie V., BA *Sask.*, MSW  
 (Family Life & Group Development) Superv  
 Thomson, Mrs. Mary, BA *Alta.*, MSW  
 Asst. in Family Life & Group Devel  
 Booth, A., BA *Antioch*, MA *Calif.*  
 (Communications Programme) Superv  
 Bastedahl, K., BCom  
 (Short Courses & Conferences) Superv  
 Campbell, L. A., BSF (Forestry Sciv) Superv.  
 Grant, J., BA  
 (Liberal Educn Programme) Superv  
 Rosenthal, H. M., BA BSW *Tor.*  
 (Liberal Educn Div) Superv  
 Roberts, J. G., BA (Audio-Visual) Superv  
 Rink, S., MA *Conn.* (Drama) Field Rep  
 Payne, S. (Drama) Field Rep.  
 Mathews, T., MBA *Staw.* (Bus & Indust) Superv  
 Dechert, I. (Fine Arts) Superv  
 Drew, G. A., BSA (Agric & Fisheries) Superv  
 MacFarlane, Mrs. Maiv., BA MSW  
 (Evg. Class Programme) Superv  
 Wood, J. B., MA *Comb.*  
 (Evg. & Extramural Div) Superv  
 Zimmerman, Miss Lillian  
 Lecture Programme & Speakers Sec  
 Stewart, Edith, BA *Mount.*, BSMLS *Wash.*  
 Extension Librarian  
 Stewart, Josae Film Librarian  
 Kaye, R. D. Recording Librarian  
 Reeve, J. (Culmatics) Invt

## ADMINISTRATIVE AND OTHER STAFF

Admin Asst to Pres : G. O. B. Davies, MA  
 Comb. Asst. to Pres : R. R. Jeffels, BA BEd  
 Alta. MA Comb. Asst. to Pres and Dir of Univ  
 Development Fund : A. Roberts, Asst. to Dean  
 of Arts : I. McT. Cowan, PhD *Calif.*, BA,  
 FRSCan ; M. F. McGregor, PhD *Chic.*, MA,  
 FRSCan. Asst. to Dean of Educn : J. H. Wallis,  
 BA. Admin Office : Gen. Sec. Ouyv L. Roberts,  
 GCB, KBE, DSO, MA Comb. Asst. Registrar :  
 Myrtle L. Kierrell, BA. Dir. of Summer Session :  
 K. F. Argue, BA *Alta.*, MA *Oxon.*, EdD *Cal.*  
 Asst. Librarian : Anne Smith, BSMLS *Wash.*,  
 MA *Mich.*, BA. Deans : Margaret MacKenzie  
 House, Mary Weir, Dorothy Mawdsley House,  
 Pauline Butling, BA ; Phyllis Ross House,  
 Vivian Brown ; Aldwyn Humber House, Maunie  
 Rogers, BA ; Shawwood Lodge House, J. C. O'Brien,  
 BCom *Land.*, MA PhD *Norve Duss.* ; Kootenay  
 House, R. Howard, BSc *PhD Natl.* ; Robson  
 House, R. Fuchs, BCom ; Okanagan House, M.  
 Mouton, BA *Tor.*, MA *Cal.* ; Acadia Camp, Mrs.  
 Marion Lenzham, D. Lawson, BSS *N.Y.*, MA  
 BEd *Cal.*, Conn. Pason, BEd ; Fort Camp,  
 W. A. G. Voss, BSc PhD *Land.*, Mary Bellert  
 Hall, Marion Rowat, Isabel MacInnes Hall,  
 . . . . . Anne Westbrook Hall, Anne Richard,  
 BSc Housing Dir : J. Hazz, BA. Housing

Administrators : A. R. Baird, Dir., Student  
 Activities and Internat. House. J. Haze, BA.  
 Purchasing Agent : H. A. Le Masquand  
 Buser ; W. White, Accountant ; M. H. Craven  
 Supt. of Bldgs and Grounds : T. Hughes, BEng  
 McG. Univ. Bookstore and Post Office : J. A.  
 Hunter (Manager and Postmaster). Dir., Food  
 Services : Ruth Blum, MS *Conn.*, BHE Asst.  
 Dir., Food Services : Mrs. Duane M. L. Enton,  
 BSc *Alta.* Dietitians in Charge : Post Camp,  
 Mrs. Bernice Viana, BHE ; Acadia Camp, Betty  
 Bradwood ; Gymnasium & Bus Stop, Mrs. Janet  
 Marsh, BHE ; Cafeteria, Doris Schuch, BSc (HSE)  
*Alta.* ; Commons, Mary McLennan, BHE,  
 Brock Memorial Hall, Rita Leachette ; Thea  
 Kootenay Grad. Centre, Mrs. Julia Wesson-  
 Herberman, Hon. Curator : J. W. Eastham, BSc  
 Educ. ; Curator : T. M. C. Taylor, MS *WVa.*,  
 PhD *Tor.*, BA. Anthropol. Museum, Dir.,  
 H. B. Hawthorn, MSc BA *N.Z.*, PhD *Yale*,  
 FRSCan ; Curator : Miss Audrey Hawthorn,  
 MA. Geol. Museum, Hon. Curator : M. Y.  
 Williams, BSc *Que.*, PhD *Yale*, FGSA, FRSCan  
 Zool. Museum, Dir. : I. McT. Cowan, PhD  
*Calif.*, BA, FRSCan ; Curator of Fishes : C. C.  
 Ludsey, BA *Tor.*, PhD *Comb.*, MA ; Curator of  
 Terrestrial Vertebrates : A. Witt.

DEAN OF WOMEN'S OFFICE. Dean of Women - Mrs. Helen McCree, BA Tor., MSW Asst. to Dean of Women: Katherine W. T. Beasley, DUParis, MA.

INFORMATION OFFICE Information Officer J. A. Bonham, BA. Asst. Information Officers Lorette S. Heide, Mrs. Timothy Carble

UNIV. HEALTH SERVICE Dir. of Health Service and Health Service Hosp. - A. M. Johnson, MD, FRCP(Can. Asst. Dir. - L. L. Shand, MD *Maur* (Staff Physician - J. K. A. Choke, MD *Maur* Physicians - A. C. Walde, MD *Alta*, D. H. Rix, MD *W Ont* Consultant Psychiatrist - D. J.

Watkinson, MD DPM *Camb.* Consultant Radiologists - S. Miller, MD CM MSc DRT *McG*, H. M. Spiro, MD CM BSc Dal *Nursing* Supervisor - Muriel Uphall, BSc. Pub Health Nurses - Jane Vango, Margaret Cameron, BSN, Jean Alexander Head Nurse, Hosp. - Mrs. June Hyllton

COUNSELLING, PLACEMENT, STAFF PERSONNEL, VETERANS' SERVICES Dir. of Student and Personnel Services - J. F. McLean, DSO, CD, BA Asst. Dir. & Counsellor - A. F. Sherran, MA. Counsellors - A. Cox, MA *Tor.*, BA; J. E. B. Ryan, MA PhD *Tor.*, BA; R. H. Speed, MA Staff Personnel Officer - W. L. Clark, BA.

## AFFILIATED COLLEGES

ANGELIAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver, B.C. (tel. CA4-4511). Affiliated in 1922. Provides courses leading to its own degrees and dipl. in theol. (BD, Hon. DD, STTh, LTh) and in religious knowledge options for credit towards univ. BA. Principal—Rev. J. Blewett, BA *Sask.*, BD *Maur*

CAREY HALL (tel. CA4-5775) (Baptist) At present residential only. Dean—J. I. Richardson, BA BD *McM*, STM *U T S (N Y)*

ST. ANDREW'S HALL (tel. CA4-7720). (Presbyterian Church in Canada) At present residential only. Dean—J. H. Ross, MA PhD *Tor.*, BD *Knox (Tor)*

ST. MARY'S COLLEGE, Vancouver, B.C. (tel. CA4-3311). (R.C.) Largely residential but provides courses in religious knowledge options for credit towards BA of the univ. Principal—Rev. B. C. Garvey, PhD *Tor*

UNION COLLEGE OF BRITISH COLUMBIA, Vancouver, B.C. (tel. CA4-3266) (United Church of Canada) Affiliated in 1920. Provides courses leading to its own degrees and dipl. in theol. (BD, BTh, Hon. DD, testamur) and in religious knowledge options for credit towards univ. BA. Principal—Rev. W. S. Taylor, MA *Emmanuel*, PhD *BD Tor*

VICTORIA COLLEGE, Victoria, B.C. (tel. Evergreen 2-9131) Affiliated to univ. in 1920, for 4 yrs., in arts & sci., 1st yr. comm., and 4 yrs. of educ. degree programme. W. H. Hickman, DUParis, MA, Principal, Prof. of French, R. T. D. Wallace, MA, Vice-Principal & Dir. of Evg. Div., Prof. of Maths, H. C. Gillsland, MA, Dir., Teacher Educn., H. E. Farquhar, MA, Exec. Asst. to Principal & Dir., Summer Session, Dorothy M. Clonckshank, BA, Registrar 11 Profs., 20 Assoc. Profs., 32 Asst. Profs., 36 Instrs., 2 Instrs. T., 10 Lectrs., 12 Lectrs. T.

## GENERAL INFORMATION

The Univ. of British Columbia was incorporated by an act of 1908. The univ. site consists of 1000 acres on the headland of Point Grey, 300 feet above the sea. Here a group of bldgs., constructed at a cost of nearly \$2,000,000, was opened in 1925.

The univ. is an integral part of the public educn. system of the province, and its function is to complete the work begun in the public and high schs. It is the policy of the univ. to promote educn. in general, and in particular, to serve its constituency through 3 channels—teaching, res. and extension work. It furnishes instrum. in the various branches of a liberal educn., and in those technical depts. which are most directly related to the life and industries of the province. The people of the province are informed of the results of sp. work by the staff of the univ. through the dept. of univ. extension. B.C. has a population of 1,544,000 and Greater Vancouver of 612,000.

CONSTITUTION The bd. of governors consists of the chancellor, elected by convocation, presi-

dent and 9 other persons—3 elected by senate and 6 apptd. by lieut.-govr. in council. The senate consists of the chancellor, pres. (as chairman), deans and 2 profs. of each fac., 3 nominees of the lieut.-govr. in council, 2 profs. of Victoria Coll. elected by the fac., one member elected by high sch. principals and assts., one by each affiliated coll. in the province, 15 by convocation, one by the B.C. teachers' federation, 3 members apptd. by the board of management of alumni assoc.

INCOME (1960-61) Total income, \$16,514,754 (govt. of Canada grant, 23.6 per cent., provincial grant, 36.1 per cent., student fees, 26.3 per cent., gifts, grants and bequests, 9.3 per cent., other sources, 4.5 per cent.)

DEANS See p. 172

LIBRARY. 475,000 vols.; regularly receives about 4000 periodicals. Strong in serial publications of scholarly and scientific socs.

**LABORATORIES** available for all courses. The forest products lab. (opened 1958) is a unit of the F P labs div. of the forestry branch, dept. of forestry, govt. of Canada. **HERBARIUM** 90,000 sheets flowering plants and ferns. **BOTANICAL GARDENS**, arboretum and econ. section, 5 acres.

**TEACHING HOSPITALS.** Vancouver General H., St. Paul's H., Shaughnessy Military H.

**UNIVERSITY RESEARCH FOREST**, about 7 mls. long and 2½ mls. wide, N. of the town of Haney, was granted to the univ. by the prov. govt. in March 1949. The **CAMPUS FOREST** consists of a narrow belt S and W of the univ. and acts as a demonstration and field study area for forestry, biol., bot. and zool.

**MUSEUMS.** (1) Anthropol. museum (in library)—Burnett collection of South Seas and other ethnol. specimens, Riley collection of Indian artifacts, Brittain collection of Indian baskets, Mackell-Pierce collection of Eskimo clothing and utensils, van Haerholt van den Doelen collection of Egyptian and classical materials, numerous other valuable collections. (2) Geol. and geog. museum in the bot. and geol. bldg. (3) Zool. museum in biol. sci. bldg. (4) Botanical collections and herbarium (*see also above*)

**THE BRITISH COLUMBIA RESEARCH COUNCIL** has its H.Q. and labs. on the campus. It works in close co-operation with the sci. depts. of the univ. and its programme includes fundamental and appl. res. Staff of 70, of which 45 are professional scientists and engineers.

**CONNAUGHT MEDICAL RESEARCH LABORATORIES** (WARREN DIVISION). In 1935, under co-operative arrangement with provincial dept. of health of B.C. and the Connaught med. res. labs. of the Univ. of Toronto, the latter instn. established a western division on the campus which is now situated in the Washbrook bldg. Res. projects in microbiol. as applied to pub. health and prev. med. are pursued here in conjunction with students and staff of dept. of bacteriol. and immunol. in collaboration with division of labs. of provincial dept. of health.

**ART CENTRE.** Incl. among activities of the fine arts cttee., under joint supervision of the visual arts cttee. and the handicrafts cttee., the art centre includes a workshop and an art gallery. The workshop gives courses in ceramics, painting, sculpture, weaving and other appl. arts, which are open to students, staff and extra-mural registrants but do not carry semester credit. The art gallery maintains a continuous display of loan exhibitions.

**COMPUTING CENTRE.** Established 1957 with the help of local bus. and indust. and with grants from the N.R.C. and defence res. bd. Provides trig. in the use of high-speed computers and serves as an aid and stimulus to res. Facilities of the centre are available to bus. and engin. firms as well as to univ. personnel.

**INSTITUTE OF OCEANOGRAPHY** is supported in part by the N.R.C., the defence res. bd. and by the Canadian cttee. on oceanog., the last named body representing the interest of the Royal Canadian Navy, the national res. council, the fisheries res. bd. and the hydrographic service. The inst. represents the co-operative effort of the depts. of biol. and bot., geol., chem., phys. and zool. to train grad. students in one or more of these branches in the principles and techniques of oceanog. res. The inst. is further charged with the responsibility for fundamental res. in oceanog.

An **INSTITUTE OF FISHERIES**, within the fac. of grad. studies, gives at the grad. level broad and advanced instruction in various fields relating to the best use and management of the fisheries' resources.

**INSTITUTE OF INDUSTRIAL RELATIONS** within fac. of grad. studies sponsors fac. res. and grad. student educn. in field of indust. rels. The latter term is interpreted broadly to cover both 'institutional' and 'human' rels. in indust. The inst. also operates a community programme of educn. in conjunction with dept. of univ. extension.

#### ADMISSION. *See* Appendix III.

**FIRST DEGREE.** BA and BSc general, BA and BSc single or combined hon., 4 yrs. (from jr. matric.); BA and BSc double hon., 5 yrs. (from jr. matric.); BA hon. may be taken in practically all depts. in fac. of arts & sci. except music, BSc hon. may be taken in bacteriol., biochem., biol., bot., chem., geol., appl. maths., phys., physiol., zool. BHE, BPE, BMax. 1 yr. (from jr. matric.) BCom, BASc in appl. sci., BSP (forestry), 5 yrs. (4 from 1st yr. in arts or sr. matric.) BArch, 6 yrs.—1 yr. arts plus 5 yrs. archt. (from jr. matric.). BSA general, 4 yrs. (from jr. matric.); BSA hon., 5 yrs. (from jr. matric.) LLB, 3 yrs. (from 3rd yr. in arts and sci.) BSP, BSN, 4 yrs. (from jr. matric. or 1st yr. arts). MD, 4 yrs. (from 3rd yr. arts or BA). BEd, 4 or 5 yrs. (from jr. matric.), also 1 yr. postgrad.

**HIGHER DEGREE.** MA, MAsE, MSA, MPh, MSc, MBA, MSW, MEd, MPE, MArch, MSP, LLM, 1-2 yrs. postgrad. BSW, 1 yr. postgrad. work. BLS, 1 yr. postgrad. work.

MA may be taken in anthropol., bacteriol. & immunol., biol., bot., classics, econ., educn., Engl., fine arts, genetics, geog., hist., internat. studies, lang. (mod. & classical), maths., pharmacol., physics, phys., planning, pol. sci., psychol., slavic studies, sociol., zool. MSc may be taken in agric. microbiol., anat., bacteriol. & immunol., biochem., biol., bot., chem., geol., genetics, metall., neurol., phys., physiol., planning, zool.

PhD—man of 3 yrs.' postgrad. work offered in anat., bacteriol. & immunol., biochem., biol. & bot., chem., engin., civil engin., classics, dairying & soil sci., electr. engin., Engl., for. (in co-operation with biol., bot. and zool.), genetics, geol., maths., metall., pharmacol., physics, phys.,

physiol., psychol., romance studies, soc. sci., zool.

EdD—min of 3 yrs.' postgrad. work.

HONORARY DEGREES LL.D., D.Sc. and D.Litt.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. 1 yr. (from at least grade X), occupat. agric., 1 yr. (from jr. matric and R.N.), pub. health nursing, admin. of hosp. nursing units.

Fees. Arts & sci., agric., educn., nursing: \$346 per session. Appl. sci. (incl. archt. and engin.), comm. & bus. admin., for, law, pharmacy, librarianship: \$396 per session. Soc. work: BSW \$396 per session, MSW \$346 per session. Med.: \$558 per session. Music: \$446 per session. Occupat. agric.: \$256 per session. Partial courses: \$22 per unit. Grad. study: \$346 per session.

ACADEMIC YEAR. Sept. 1 to Aug. 31: winter session—approx. 15 Sept. to 1 May, 3 terms of 14 wks. and 17 wks. respectively, summer session—July to mid-Aug., approx. 7 wks.

SUMMER SESSION. In July and Aug., courses for credit towards a degree are offered; max. of 6 units only permitted. Non-members of the univ. (non-matriculants) may be admitted to the summer session only as auditors. They are not permitted to write the course exams, nor receive univ. credit for the courses studied.

SUMMER EXTENSION COURSES. Non-credit courses in dance, dramatics, weaving, painting, pottery, music, writing, photography, arts and crafts, communications.

UNIVERSITY EXTENSION. Since 1936 the dept. of univ. extension has carried on a comprehensive and varied programme of adult educn. It is responsible for the admin. of the rural section of the common-provincial trg. programme, sponsored by the Canada dept. of labour and the prov. dept. of agric. The present activities of the dept. include extension lectures at various centres throughout the prov., evg. classes; discussion groups, dramatics, agric., short courses carrying no acad. credit, during both winter and summer seasons; visual instructn. by means of (i) lantern and film slide service, (ii) moving picture service; radio broadcasts; library assistance, art and music courses (made possible by Carnegie art teaching set and Carnegie music set), educn. programme for British Columbia fishermen, business; public affairs; creative writing; home econ.; arts and crafts; parent educn.; family life educn. and group devel. Several correspondence and extra-seasonal courses carrying credit towards a degree are offered.

'OPEN' SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES. Standard Oil Co. of British Columbia Ltd. fellowship, \$950, Aluminum Lab. Ltd. fellowship, \$1600, MacMillan, Bleedel, and Powell River Co. Ltd. schol., \$700, British Columbia Electric Ry. Co. Ltd. res. schol., \$750, Cariboo Gold Quartz Mining Co. Ltd. schol., \$250, Johnston Terminals Ltd. fellow-

ship in comm., \$1500; Canadian Western Paper Mills Ltd. fellowship, \$1500, Leon Koerner grad. schol., \$500, Canadian Pulp & Paper, W. Div., fellowships (2), \$500 each, Shell Oil fellowship for res., \$1200, Canadian Industries Ltd. fellowship for res., \$2000, Edith Ashton memorial schol., \$250, B.C. Telephone schol. (1), to total of \$2500, Burroughs Wellcome fellowship in anaesthetol. and appl. pharmacol., \$1000, Gen. Accountants' schol., \$1500, grad. schol. in slavic studies, \$1000, Peacock fellowship in appl. physiol., \$500, United Fishermen and Allied Workers' Union schol. in fisheries, \$200, California Standard Co. Fellowship, \$1000, Queen Elizabeth schol. (5), to total of \$5000, Northern Electric fellowship, \$1200, Van Dusen fellowship in for., \$1500, Warner Lambert res. fellowship in pharm., \$2100, Vancouver Sun grad. schol. for journalism, \$2000, univ. grad. fellowships (13), \$1800-\$2500. Students may also contact individual depts. about the possibility of res. fellowships and assistantships.

ALUMNI ASSOCIATION is composed of hon., active and assoc. members. Governing body composed of a bd. of management and executive comm. elected at the annual meeting. The exec. dir. is employed by the assoc. on a full-time basis. The alumni annual giving programme, established in 1948, is now part of the U.B.C. Devel. Fund which in 1957-58 conducted a public campaign for capital funds realizing more than \$8,000,000. This devel. fund is a continuing operation in fund raising.

RESIDENCE. Bd. and lodging in vicinity of the univ. from 645 upwards p.m. Acadia Camp, accomm. for about 315 men and 46 women. Terms: dbl. rm., \$437, single rm., \$472. Fort Camp, accomm. for 385 men; terms as for Acadia Camp. Women's Residences: Mary Bollert Hall; Isabel MacLennan Hall; Anne Westbrook Hall. Accomm. for 52 women in each hall. Fees: \$542 per session for single rooms, \$597 per session for dbl. rooms. Dorothy Mawdsley House, Alden Hamble House, Margaret MacKenzies House, Evelyn Lett House, Phyllis Ross House. Accomm. for 84 women in each. Fees: \$560 per session for single rooms, \$542 per session for dbl. rooms. Men's residences: Robson House, Kootenay House, Okanagan House, Sherwood Lett House, each accommodating 96 men; \$597 for dbl. rooms, \$542 for single rooms.

UNIVERSITY SERVICE TRAINING CORPS (a) Canadian officers' trg. corps; (b) univ. naval trg. div., (c) R.C.A.F. (reserve) univ. flight. All service trg. on the campus is under the jurisdiction of a jt. services univ. trg. comm.

STUDENT HEALTH SERVICE. The univ. health services comprises an up-to-date and well-staffed out-patient dept. together with a 26-bed hosp. The health service is not a teaching dept., being maintained solely for the benefit of students who may require med. care and advice.

In addition to providing med. and nursing care

and investigation of any student health problems, the health service carries out the compulsory routine med. exams. required by the univ. Each student on admission is given complete physical exam., including tuberculin skin test and chest X-ray. Before participation in athletics all women students are annually medically examined and men students are checked as to physical fitness for participation in strenuous athletics. A scheme for the control of communicable diseases and the following up of defects is in operation and first-aid is rendered by a full-time public health nurse. The med. officer is available at specified hours for consultation.

**STUDENT ORGANIZATIONS.** The Alma Mater soc. with its governing executive, the students' council, controls all student activities and is responsible for student discipline. Every student automatically becomes a member of the Alma

Mater soc. when he enrolls in the univ. Members are elected every spring to hold office through the next yr.

**STUDENT ATHLETIC FACILITIES.** 7 playing fields; 2 gymnasiums; swimming pool.

**PUBLICATIONS.** *Calendar* (April); *summer session Announcement of Courses*; *lecture series, President's Annual Report*. (No charge for any of these publications.) *History of the Univ. of British Columbia, 1908-1958*, by Prof. H. T. Logan obtainable only at univ. bookstore, price \$5; *Canadian Lit.* quarterly of crit. and review, \$3 p.a.—subs. to circulation manager, *Pacific Affairs*, internet quarterly review of the far east and Pacific area, \$3 p.a.—subs. to circulation manager.

**UNIVERSITY BOOKSTORE.** Supplies all textbooks, instruments, etc., required by students.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: chem. engin. bldg., Thon Koerner grad. & soc. centre; 3 bldgs. for med. sci.; women's residences—Aldwyn, Hamber House, Dorothy Maudsley House, Margaret MacKenzie House, Phyllis Ross House.

**RECIPIENTS.** G. M. Shrum (phys.); A. Haennakoff (civil engin.).

**REIGNATIONS.** N. Harlow (librarian), R. A. Bonnett (chem.); Miss H. Brooks (Engl.); Frances Frazer (Engl.), Miss Orene Robinson (home econ.); P. D. Duell (maths.); J. M. Daniels (phys.), O. Bluh (phys.); D. Allan (phys.), J. R. Prescott (phys.), W. McLean (phys.), D. Bessky (French); F. Fleury (French); J. C. Briggs (zool.); M. L. Howell (phys. educn.); D. W. Fowler (soc. work), R. E. Boston (mech. engin.), I. Robinson (archit.), D. F. Beny (poultry sci.), I. R. Feltman (law); Ailsa Thurgin (ped.); Sheila Rogers (ped.), J. R. Stuart (pathol.); S. Fahman (pathol.), E. E. Daniel (pharmacol.), J. W. Kee (forestry); P. Lausang (finance); J. A. Richardson (educn.); A. M. Thomas (educn.); E. Wiseman (educn.); A. K. Young (univ. health serv.); D. M. Whitlaw (med.).

**DEATHS.** A. E. Grauer (chancellor); R. H. Clark (emer. prof. of chem.); W. M. Foster (clin. instr. in psychiat.); F. Lassauze (dir., prof. of archit.); F. S. Nowlan (emer. prof. of maths.); F. W. Vernon (emer. prof. of mech. engin.).

**HONORARY DEGREES.** LL.D.—C. J. Armstrong, pres., Univ. of Nevada; S. N. F. Chant, dean of arts & sci., bd. of dept. of psychol., Br. Col.; Rt. Hon. Sir Oliver S. Frank, prov. councillor, chairman, Lloyds Bank; G. C. Miller, former mayor, Vancouver; E. D. MacPhee, dean emer. of comm. & bus. admin., Br. Col.; Miss Rosalind Young, pioneer teacher, Victoria High Sch. & Coll., D.Sc.—P. E. Cooper, engineer and industrialist; G. M. Shrum, dean emer., fac. of

grad. studies, Br. Col.; J. L. Gray, pres., Atomic Energy of Canada.

## Statistics

### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	8907	171
Women	3748	124
Total	12,655	295

**Distribution by Faculties.** *Agric.*, 204; *appl. sci.*, 1222; *arts*, 6814; *comm. & bus. admin.*, 617; *educn.*, 2376; *for.*, 181; *grad. studies* (incl. soc. work and librarianship), 819; *law*, 225; *med.*, 229; *pharm.*, 139; *unclassified*, 124. Total 12,950.

*Included in the figures above are:*

Postgraduate students (incl. soc. work and librarianship), 819.

New admissions, 4320.

Students from other countries, 1478. (Countries from which largest numbers came: U.K., 419; W. Indies Fed., 170; U.S.A., 142; Fed. German Rep., 127; Hong Kong & China, 120; Netherlands, 78; India, 57).

Extra-curricular and correspondence (not incl. above), 2701 (1181 m., 1520 w.).

**DEGREES AWARDED (1960-61).** *Agric.*: BSA, 33; *Appl. sci.*: BASc, 216; BAuch, 11; BSN, 49; *Arts & sci.*: BA, 351; BA hon., 53; BSc, 128; BSc hon., 55; BHE, 42; BPE, 18; BSW, 49; MSW, 17. *Comm. & bus. admin.*: BCom, 115; *Educn.*: BEd, 232. *Poetry*: BPF, 29. *Sopran div.*, 24. *Law*: LLB, 80. *Med.*: MD, 43; *Pharm.*: BPh, 34. *Grad. studies*: PhD, 12; MA, 49; MSc, 40; MAsc, 30; MSA, 8; MPhil, 12; MEd, 16; MBA, 3, MPE, 2.

**DIPLOMAS AWARDED (1960-61).** Pub. health nursing, 30; clin. supervision & teaching, 21; occupat. agne, 4.

# CARLETON UNIVERSITY\*

Founded 1942. Incorporated as Ottawa Association for the Advancement of Learning, 1943;  
as Carleton College, 1952; as Carleton University, 1957

Postal Address: Ottawa 1, Ontario, Canada  
Cables and Telegrams: Carleton University, Ottawa  
Telephone: Central 5-5161

CHANCELLOR—C. J. MACHESNEY, CMG, MC, DEng *Tor*, Hon. LL.D. *Dal*, *W. Ont.*, *Qu*, *Algers* &  
*Sask*, Hon. DSc *McG*, *Laval*, *Br. Col.* & *Prin*, Hon. DCL *Bishop's*, FRS  
PRESIDENT AND VICE-CHANCELLOR—A. D. DUNTON, DSc *Laval*, LL.D. *Sask.*, *Qu* & *Br. Col.*  
DEAN, FACULTY OF ARTS AND SCIENCE—J. A. GIBSON, BA *Br. Col.*, MA *BLitt* DPhil *Oxon.* (Hist.)  
DIRECTOR, SCHOOL OF PUBLIC ADMINISTRATION—R. O. MACFARLANE, MA *Qu*, PhD *Harv.*  
DIRECTOR, SCHOOL OF GRADUATE STUDIES, ASSOCIATE DEAN OF THE FACULTY OF ARTS AND SCIENCE—  
M. S. MACPHERSON, BA *Qu*, MA *McG*, DPhil *Oxon.*, FRSCen (Maths.)  
DIRECTOR, DIVISION OF SCIENCE—H. H. J. NISBET, BA *Qu*, MA PhD *Tor*, DSc *Ley*, FLS (Biol.)  
DIRECTOR, SCHOOL OF ENGINEERING—J. RUPTASH, BSc *Alta*, MASEC PhD *Tor*  
REGISTERAR AND RESEARCH ASSOCIATE PROFESSOR OF EDUCATION—J. A. B. McLEISH, MA *McG*, PhD *Corn.*  
BURMAR—F. J. TURNER, BCom MA *Tor*, FCIS  
LIBRARIAN—HELEN G. GIFFORD, BA BLS *McG*.

## TEACHING STAFF

[†=Part-Time]

Accounting		Morton, J. M., MSc <i>Dal</i> , MA PhD <i>Prin</i> , FCIC		Prof.
Scott, W. R., BCom, CA	Asst. Prof.	Laughton, P. M., BA <i>Tor</i> , MSc <i>Dal</i> , PhD <i>Wiz.</i>	(on leave)	Assoc. Prof.
Serra, A. A., LecCom <i>St. Gallen</i> , DrRerPol <i>Berlin</i> , CA	†Sessal Lectr.	ApSimon, J. W., BSc PhD <i>Lav.</i>		Asst. Prof.
Bleiman, C. N., BCom <i>Br. Col.</i> , MS <i>Cal.</i> , CA	†Sessal Lectr.	Forman, A. G., MASEC <i>Br. Col.</i>		Asst. Prof.
Larose, A. B., BCom, CA	†Sessal Lectr.	Wiles, D. R., BSc <i>Mt. All.</i> , BEd MSc <i>McM</i> , PhD <i>M. J. T.</i>		Asst. Prof.
Anthropology, see Sociol.		Cherniak, E. A., MA <i>Qu</i> , PhD <i>Lond.</i>		Asst. Prof.
Biology		Holbach, Mrs. Natasha C., BSc <i>Dal</i> , PhD <i>McG</i>		Sp. Lectr.
Nesbitt, H. H. J., BA <i>Qu</i> , MA PhD <i>Tor</i> , DSc <i>Ley</i> , FLS	Prof.	Elworthy, R. T., MBE, BSc PhD <i>Lond.</i>		†Sr. Dem.
Wightman, F., BSc PhD <i>Lond.</i>		Classics		
Illman, W. L., BA MSc PhD <i>W. Ont.</i>	(Bot.) Assoc. Prof.	Swallow, F. Ellenor M., MA <i>Alta</i> , PhD <i>Corn.</i>	(on leave)	Assoc. Prof.
Settlerfield, G., BA <i>Br. Col.</i> , PhD <i>Wiz.</i>	(Bot.) Assoc. Prof.	Hodge, A. T., MA PhD <i>Camb.</i>		Asst. Prof.
Smith, D. A., MA PhD <i>Tor</i>	(Zool.) Assoc. Prof.	Goble, N. M., MA <i>Edin.</i>		†Sessal Lectr.
Bayly, Mrs. Isabel L., BSc MA <i>Tor</i>	Lectr.	Shawman, W. H., MA <i>Qu</i>		†Sessal Lectr.
Solman, V. E. F., MA PhD <i>Tor</i>	†Sessal Lectr.	Commercial Law		
Toner, J. S., MA PhD <i>Br. Col.</i>	†Sessal Lectr.	Corlett, M. E., QC, BA <i>Tor</i>		†Sessal Lectr.
Fletcher, J. P., MA PhD <i>Tor</i>	†Sessal Lectr.	Economics		
Chemistry		Gordon, H. S., BA <i>Dal</i> , AM <i>Cal.</i>		Prof.
Holmes, J. M., BSc <i>Nes. Br.</i> , MA <i>W. Ont.</i> , PhD <i>McG</i>	Prof.	Kaliski, S. F., BA <i>Br. Col.</i> , MA <i>Tor</i> , PhD <i>Camb.</i>		Assoc. Prof.

\* Member of the Association of Universities of the British Commonwealth

- Brewer, T. N., MCom PhD *Dalh.* Assoc. Prof.  
English, H. E., BA *Br Col.*, PhD *Calif.*  
(on leave) Assoc. Prof.  
Peterson, W., MA *Abund.*, BPhil *Oxon.*  
Visiting Prof.  
Maule, C. J., BA *Br Col.* Lectr.  
Adams, R. M., BA *W Ont.*, MA *Qu.*  
PhD *Leeds.* †Sessl. Lectr.  
Breton, A., BA *Manit.* †Sessl. Lectr.  
Chambers, F. J., BA *W Ont.*, MSc *Leeds.*  
PhD *Tor.* †Sessl. Lectr.  
Dymond, W. R., MA *Tor.*, PhD *Corn.*  
†Sessl. Lectr.  
Rymes, T. K., BA *Manit.*, MA *McG.*  
†Sessl. Lectr.  
White, D. A., BA †Sessl. Lectr.

## Engineering

- Rupprecht, J., BSc *Alta.*, MSc PhD *Tor.* Prof.  
Tadaberry, S. G., CBE, BSc *Tor.*  
Asst. Prof., Asst. Dir. of Sch.  
Putnam, R., MechEng *Leeds.*,  
MEng *McG.* Assoc. Prof.  
Goldsmith, E. E., DIC, DiplIng *Berl.*  
(on leave) Assoc. Prof.  
Bowen, W. H., DipEng *Dalh.*, MEng *N.S.T.C.*,  
MSc *Mich.* Assoc. Prof.  
Gullen, M. A., BSc *Edin.*, MS *Purdue.*  
Assoc. Prof.  
Millar, D. A. J., BSc *Br. Col.*, ME  
ScD *M.I.T.* Assoc. Prof.  
Majumdar, H., BSc *Ban.*, MSEE *Lehigh.*  
PhD *Syr.* Asst. Prof.  
Wright, W., BSc *Tor.* Asst. Prof.  
George, D. A., BEng *McG.*, MS *Stan.*  
ScD *M.I.T.* Assoc. Prof.  
Van Dalen, K., BSc *Qu.*, DIC, MSc *Leeds.*  
Asst. Prof.  
Cockshutt, E. P., BSc *Tor.*, SM  
MechEng *ScD M.I.T.* †Sessl. Lectr.  
Chappell, M. S., BSc *Br. Col.* †Sessl. Lectr.  
Clawford, C. B., DIC, BSc *Qu.*,  
MSc *Northwestern.* †Sessl. Lectr.  
Klein, G. J., BSc *Tor.* †Sessl. Lectr.  
Stephenson, D. G., BSc *Tor.*, PhD *Leeds.*  
†Sessl. Lectr.  
von Booser, H. J., PhD *Handel.* †Sessl. Lectr.  
Brooks, D. W., BSc *Qu.* †Sessl. Lectr.  
Coll, D. C., MEng *McG.* †Sessl. Lectr.  
Gould, D. G., MSc PhD *Tor.* †Sessl. Lectr.  
MacNabb, B. B., BSc *Qu.* †Sessl. Lectr.  
Mandl, P., MA PhD *Tor.* †Sessl. Lectr.  
McCormy, W. H., BSc MCom *Tor.* †Sessl. Lectr.  
Meyer, R. P., BEng *N.Z.*, PhD *Manit.* †Sessl. Lectr.  
Rainbird, W. T., BEng *Can.* †Sessl. Lectr.  
Rolle, J., BSc PhD *Leeds.* †Sessl. Lectr.  
Simpson, J. H., BEng *McG.*, PhD *Brit.* †Sessl. Lectr.  
Smith, H. W., BSc *Tor.*, ScD *M.I.T.* †Sessl. Lectr.  
Templin, R. J., BSc *Tor.* †Sessl. Lectr.

## English

- Bestie, A. M., BA *Tor.*, AM PhD *Cal.* Prof.  
Johnston, G. B., MA *Tor.* Prof.  
McDougall, R. L., BA *Br. Col.*, MA  
PhD *Tor.* Prof.  
Wood, G. J., MA *Tor.* Assoc. Prof.  
Hornymansky, M., BA *Tor.*, MA *Oxon.* Asst. Prof.  
Jones, B. W., BA *Gumell.*, MA PhD *Leeds.* Asst. Prof.  
Young, Lorna D., MA *Rock.*, PhD *Dalh.* Asst. Prof.  
Bedingsfield, Mrs. Dolores, MA *Nfld.* Lectr.  
Hanna, Maureen M., BA *Blatt Oxon.* Lectr.  
Jemtelty, T. J., MA *J. Carroll.* Lectr.  
Wurtzle, D., BA *Leeds.* †Sessl. Lectr.  
Undenhill, Mrs. Ruth M., BA *Sask.*,  
MA *Tor.* †Instn.  
Carson, Edwina, BA *W Ont.* †Instn.  
Collins, Miss Jean M. S., MA *McG.* †Instn.  
Fischer, Groti, BA *Br. Col.*, MA †Instn.  
Hicks, J. Marie, BA *Qu.* †Instn.  
Judge, Dorothy, BA *McG.* †Instn.  
Murray, R. J., BA †Instn.  
Strutt, Audrey, BA *Tor.* †Instn.  
Vernon, Audrey, BA *Nott.* †Instn.

## French

- Mélieux, M. P., DiSL *Paris.* Visiting Prof.  
Tessie, J. S., BA *McM.*, MA PhD *Tor.*  
Fleischauer, C. P., AM PhD *Harc.* Assoc. Prof.  
Bambeck, M., DrPhil *Fran.*,  
CertPed *Marburg.* Asst. Prof.  
Collet, Mrs. Paulette F. J., DipEd *Leeds.* Lectr.  
MA *Leeds.* Lectr.  
Kushner, Eva, BA PhD *McG.* Lectr.  
Mélisse, Mrs. Madeleine, LSc *Paris.* †Sessl. Lectr.  
Bédard, S., LSc *Paris.* †Sessl. Lectr.  
DuVerne, G. S., MA *Tor.* †Sessl. Lectr.  
Fraser, W., BA †Sessl. Lectr.

## Geography

- Merrill, G. C., MA *McG.*, PhD *Calif.* Assoc. Prof.  
Johnson, J. P., Jr., AB *Dartmouth.* Asst. Prof.  
AM *Clark.* Asst. Prof.  
Ranc, R. M., BA *Br. Col.*, MA *Wash.* †Sessl. Lectr.  
Fraser, J. K., BA *Tor.* †Sessl. Lectr.

## Geology

- Young, W. L., MSc PhD *McG.* Assoc. Prof.  
Hill, P. A., BSc *Leeds.*, PhD *Cal.*, FGS  
Assoc. Prof.  
North, F. K., MA DPhil *Oxon.* Assoc. Prof.  
Hooper, K., MSc *Leeds.*, FGS Asst. Prof.  
Tupper, W., MSc *New Br.*, PhD *M.I.T.* Asst. Prof.  
Moore, J. M., BSc *Manit.*, PhD *M.I.T.* Asst. Prof.  
Aloock, F. J., BA *Tor.*, PhD *Yale.*, FRSCan, FGS  
†Sp. Lectr.

Allen, Mes. Marjorie M., BSc Col., MSc <i>Nathanson</i>	Chief Deane
Boyle, R. W., MA PhD <i>Tor</i> , FRSCan	†Sessal Lectr.
Collett, L. S., BSc <i>McM</i> , MA <i>Tor</i>	†Sessal Lectr.
Niblett, E. R., MSc <i>Tor</i> , PhD <i>Cambr</i>	†Sessal Lectr.
Borden, R. L., MSc <i>Alta</i> , MBA <i>W Ont</i>	†Sessal Lectr.
Donaldson, L. A., BSc <i>Qu</i> , PhD <i>Johns H</i>	†Sessal Lectr.
Wilken, Alice E., MBE, BA <i>Tor</i> , PhD <i>Chic</i>	†Sessal Lectr.
Riddell, J. E., BEng MSc PhD <i>McG</i> , FRSCan, FGSA	Hon Res Prof

## German

Oppenheimer, E. M., BA <i>Tor</i> , AM Col, PhD <i>Harv.</i>	Assoc Prof
Zwingerberger, Renate A., MA <i>Tor</i>	Lectr.
Brühwiler, J., BA	†Sessal Lectr.
Camfield, Martha M., MA <i>Oxou</i> , BA	†Sessal Lectr.

## History

Gibson, J. A., BA <i>Br Col</i> , MA BLett DPhil <i>Oxou</i>	Prof
Farr, D. M. L., MA <i>Br Col</i> , MA <i>Tor</i> , DPhil <i>Oxou</i>	Prof
Coupe, G. S., BA <i>McM</i>	Assoc. Prof.
Mealing, S. R., BA <i>Alta</i> , MA BLett <i>Oxou</i>	Assoc. Prof.
Mou, J. S., MA PhD <i>Tor</i>	Asst Prof
Bowen, D. G., MA <i>Qu</i>	Asst Prof.
Graffius, Naomi E. S., BA <i>Lawd</i> , MA <i>New Br</i>	Lectr.
Strong, J. W., BA <i>Colby</i> , MA <i>Boston</i>	Lectr.
McQueen, J. M., MA <i>Tor</i>	Hon Lectr.
Grantham, R., MA <i>Br Col</i>	†Sessal Lectr.
Omsby, W. G., BA <i>Tor</i> , MA	†Sessal Lectr.

## Journalism

Eggleston, W., MBE, BA <i>Qu</i>	Prof
Kesterton, W. H., BA <i>Qu</i> , BJ	Assoc Prof
Baldwin, Mrs. Frances O., BA <i>Sask</i> , BJ	†Sessal Lectr.
Herbert, W. B., BA LLB <i>Alta</i>	Seminar Leader
DePoe, N	Seminar Leader
Gardiner, R	Field Work Supervisor
Flaherty, K	Field Work Supervisor

## Mathematics

Macphail, M. S., BA <i>Qu</i> , MA <i>McG</i> , DPhil <i>Oxou</i> , FRSCan	Prof.
Northover, F. H., MA <i>Cambr</i> , PhD <i>Lawd</i>	Prof
Besack, P. R., BA <i>McM</i> , AM PhD <i>Wash.</i>	Assoc Prof.
Lightsome, A. H., MA <i>New Br</i> , PhD <i>Tor</i>	Assoc. Prof.
Sida, D. W., MSc PhD <i>Lowd</i>	Assoc. Prof.
Treffner, H., BSc <i>St. G. Wau</i>	Lectr.
Gamble, R. B., BSc <i>McG</i>	Lectr.
Rentner, L. W., BA <i>Tor</i>	†Sessal Lectr.

Robinson, F., PhD <i>Cape T</i>	†Sessal Lectr.
Dale, D. K., BA <i>Qu</i> , MSc <i>N. Cavalaw</i>	†Sessal Lectr.
Beatty, R. L., BA <i>Tor</i>	†Sessal Lectr.
Gardner, J. C., BA <i>Med Tsr</i>	†Sessal Lectr.
Wickens, A. J., MSc	†Sessal Lectr.
Byrne, L. J., MA <i>Tor</i>	†Sessal Lectr.
Rust, Valma, BSc <i>Med Alta</i> , PhD <i>Ill</i>	†Sessal Lectr.
Fellegis, I., MSc PhD	†Sessal Lectr.
Moser, C., MSc <i>Zaw</i>	†Sessal Lectr.
Northover, Mrs. Eunice, MA <i>Cambr</i>	†Sessal Lectr.
Turner, Barbara, BSc <i>Lowd</i>	†Sessal Lectr.

## Philosophy

Weinham, J. C. S., MA <i>Aberd &amp; Camb</i> , STM <i>U.T.S. (N.Y.)</i>	Prof.
Ward, B., MA <i>Qu</i> , PhD <i>Cow</i>	Assoc Prof
Thompson, J. M., MA <i>Tor</i>	Asst. Prof.
Talmage, R. S., MA <i>Oxou</i>	Asst. Prof.
Jeffrey, A., MA <i>St. And.</i>	Lectr.

## Physics

Hart, J., BSc PhD <i>Lowd</i>	Prof
Munn, A. M., BSc <i>Qu</i> , MSc PhD <i>McG</i>	Prof
Love, G. R., MA <i>W. Ont</i> , PhD <i>Tor</i>	Assoc. Prof.
Ghosh, A. C., MSc <i>Calc.</i>	Assoc Prof
Cole, T. J. S., BSc (Eng) <i>Lowd</i> , PhD <i>Cambr</i> , BSc	Assoc Prof
Sundaresan, M. K., MSc <i>Della</i> , PhD <i>Cern</i>	Assoc Prof
Spenceley, B. J., MA <i>Virginia</i>	Lectr.
Romanowski, M., MA <i>Queens</i>	Sessal Lectr.
Clifford, C. E., MSc PhD <i>McG</i> , BSc	†Sessal Lectr.
Guennault, A. M., BA PhD <i>Cambr</i>	Sessal Lectr.
Lapssett, F. R., MAsC <i>Br Col</i> , PhD <i>Lowd</i>	†Sessal Lectr.
Osborne, T. R., BSc <i>Calc.</i> , BEd <i>Nag</i>	†Sessal Lectr.
Wu, T. Y., BSc <i>Nankai</i> , AM PhD <i>Mich</i>	†Sessal Lectr.
Wyszecski, G. W., DipIng <i>Dring Berl</i>	†Sessal Lectr.

## Political Science and Public Administration

MacFarlane, R. O., MA <i>Qu</i> , PhD <i>Harv.</i>	Prof
Rowat, D. C., BA <i>Tor</i> , AM PhD <i>Col</i>	Prof
MacKay, R. A., BA <i>Tor</i> , PhD <i>Prin</i> , LLD, FRSCan	Visiting Prof.
McRae, K. D., BA <i>Tor</i> , AM PhD <i>Harv.</i>	Assoc. Prof.
Anglin, D. G., MA <i>Tor</i> , DPhil <i>Oxou</i> (on leave)	Assoc. Prof.
Jewett, Pauline, MA <i>Qu</i> , PhD <i>Harv.</i>	Assoc. Prof.
Bromko, A., MA <i>St. And.</i> , PhD <i>Mont.</i>	Asst Prof.
Edmonds, D., BA <i>Tor</i>	Lectr.
Kitchen, K., BA <i>Nott.</i>	Lectr.
Feldman, L., BA <i>McM</i> , MA	†Sessal Lectr.
Williams, A. M., MA	†Sessal Lectr.



Juvet, C. S., BCom *Qu*, MA  
Scarfo, J. H., BA *McM*, MA *Tor*

†Sessl. Lectr  
†Sessl. Lectr

### Psychology

Wendt, R. A., MA *Alta*.  
Waks, F. R., BA PhD *McG*  
Donald, Nancy, MA DipEd *N Z.*,  
PhD *Mick*.

Assoc. Prof  
Assoc. Prof  
Assoc. Prof

Marshall, Marilyn, BA *Lake Erie*,  
MA *Dawson*.

Lectr.

Walther, W. E., BA *Chico State*,  
MSc *San Diego State*

Lectr  
†Sessl. Lectr

Lover, A. B., MA *Qu*  
Blair, W. R. N., MA *Alta*, PhD *Ont*

†Sessl. Lectr  
†Sessl. Lectr

Briggs, J., BA

### Public Administration, see Pol Sci

### Public Law

MacFaulan, R. O., MA *Qu*, PhD *Harv* Prof  
Henderson, G. F., QC, BA *Tor*. †Sessl. Lectr.  
Cattansch, A. A., QC, BA *Manit.*,  
LLB *Sask*

†Sessl. Lectr.

### Religion

Read, L. M., BA *Dal.*, MA *Tor*. Assoc. Prof  
Bowen, D. G., MA *Qu*. Asst. Prof  
Eckstein, S. L., BA *BRE Yeshiva*, MA *N.Y.*

†Sessl. Lectr

Morgan, F. H., BA *McG*,  
BD *United Theol Coll (P.Q.)*

†Sessl. Lectr

### Russian

Gerrard, J. G., MA *Oxov* (on leave) Lectr  
Lloyd, J. E. R., MA *Lond*. Lectr  
Belkov, G., MA *Br Col* †Sp. Lectr  
Stuchling, E., DiplPhilol *Stawopol* †Sp. Lectr  
Frisch, H., PhD *Bel* †Sessl. Lectr  
Lalkow, D. I., MD *Moscow* Hon Sessl. Lectr

### Sociology

Porter, J. A., BSc(Econ) *Lond*. Assoc. Prof.  
Fiumharta, Muri C., BA *Tor*, AM *Col*  
McFarlane, B. A., MA *McG*, PhD *Lond* Assoc. Prof  
Baushtyn, H., MA *McG*. Asst. Prof.  
Pineo, P. C., BA *Br Col*, MA *McG*,  
PhD *Chic*. Asst. Prof.  
Adler, K. P., MA PhD *Chic* †Sessl. Lectr  
McFen, T. F. S., BA *McG*, PhD *Harv* †Sessl. Lectr  
Roux, M., MA *Mont*, DiplEth *Paris* †Sessl. Lectr  
White, Enod, BSc(Econ) *Lond* †Sessl. Lectr

### Spanish

Forster, J. C., MA *Cambr*. Asst. Prof.  
Atienza, F., BT *Salamanca*, LicT *Innsbruck*,  
LicD *Rome*, PhD *Ont*. †Sp. Lectr

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar Elizabeth M. Buckley, BA *Qu*.  
Assts. to Registrar: Doris M. Tynes, BA, C. I.  
Lumsden, BA *Mawa*, MA *Sten*. Chief of Pro-  
cessing: Jean M. Blum, MA *St. And*. Chief of  
Pub. Services: Anna L. Holman, BLS *McG*,  
BA. Accountant: A. B. Larose, BCom, CA.  
Plant Supervisor: L. H. Phipps. Construc-  
Co-ordinator: G. R. Love, MA *W. Ont*, PhD

*Tor*. Dir. of Student Affairs: N. D. Fenn,  
BS *Med Springfield*. Dir. of Athletics: K. N.  
Harris, BA *IPUE Qu*. Student Personnel  
Officer: Mrs. Jean A. Louche, BA. Hd of  
Residence: Eileen Cox, BA *Tor*. Med. Adviser:  
E. L. Drvey, MD *DPH Tor*. Information Officer:  
D. J. Horan, BJ. Alumni Sec.: Shirley Gillespie,  
BJ.

## GENERAL INFORMATION

The univ. (named after Sir Guy Carleton, governor-in-chief of British North America in mid-18th century) is non-denominational, co-educational and privately controlled. Conceived by a coterie of the Ottawa Y.M.C.A. in 1938, the univ. had its beginning in 1942 when a group of interested citizens established the Ottawa Assocn. for the Advancement of Learning. In that year evg classes of the 1st and univ. yrs. were opened under the name Carleton Coll. Both day and evg curricula were expanded until, by 1949, they included full undergrad courses in arts, sci., comm., journalism, pub. admin. and engin. A course leading to a grad. dipl. in pub. admin. was added in 1952, and a sch. of pub. admin. establd.

in 1953, which in 1954 added a programme leading to the MA. Subsequently, a students' union, a library and a bldg. to house the sch. of pub. admin. were added, and 130 acres of land acquired for devel. of a new campus. In 1952 the legislative assembly of the province of Ontario passed the Carleton College Act, enlarging and specifying the coll's univ. powers. In the same yr the coll. was made a member of the National Conference of Canadian Univs., and in 1953 a member of the A.U.B.C. In 1957 the coll. was incorporated as Carleton Univ.

**CONSTITUTION** The univ. corporation consists of 57 members. The bd. of governors numbers

30, elected for 3-yr. terms, one-third retiring each yr. Academic policy is governed by a senate composed of full profs. of the fac. and certain other members apptd. by the bd of governors, as well as by a fac. bd composed of all full-time members of fac. of rank of lectr. or higher.

**INCOME (1960-61).** Total current income, \$1,521,381 (fees, \$620,754; endowment, \$14,764; provincial govt., \$485,000; federal govt., \$316,660; other gifts and grants, \$46,572; auxiliary enterprises, \$15,255; misc., \$22,356).

**FACULTY AND SCHOOLS.** Fac. of arts & sci. (incl. comm. and journalism), sch. of engin., sch. of grad. studies; sch. of pub. admin. For depts. and dirs. see p. 193.

**UNIVERSITY PRECINCT.** The Univ. is located on a 130-acre campus of great natural beauty on the Rideau river. Its premises consist of a sci. bldg., a library (large enough to accomm. 80,000 vols.) and an arts bldg., which forms the third side of the main court. The library also houses the admin. offices of the Univ. All these bldgs. are connected by a tunnel. In 1962 six new bldg. units opened: men's and women's residences, office and classroom extensions for arts and sci., student union (incl. addnl. cafeteria). Athletic facilities are also provided.

**LIBRARY.** 65,000 vols. See also 'Univ. Precinct', above.

**LABORATORIES, ETC.** Biol., chem., engin., geol., lang., phys., and psychol. labs.; audio-visual aids centre incl. equipment for sound motion picture projection, film-strip and slide projection.

**ADMISSION.** See Appendix III.

**FIRST DEGREES.** Day division—BA, BSc pass, 4 yrs. from jr. matric; honors 5 yrs.; BA honors may be taken in classics, econ., Engl., French, German, hist., philos., pol. sci., pub. admin., sociol., BSc honors in appl. phys., biol., chem., geol., maths, phys., maths & phys.; BCom, BJ (journalism), 4 yrs. from jr. matric; BJEng, 4 yrs. after jr. matric or after 1st yr. of BSc course. Evg. division—BA, BSc, BCom, pass courses equivalent to those offered in day division but extending over a longer period of time.

The Univ. does not offer any correspondence courses or award any **EXTERNAL DEGREES**.

**HIGHER DEGREES.** Day division—MA in pub. admin., a course of min. 1 yr. beyond full honors standing. Also MA or MSc in biol., Canadian studies, chem., econ., engin. (nuclear and elect.), Engl., French, geol., hist., maths., phys., pol. sci., psychol., sociol. PhD, at least a year full-time after MA or MSc. All grad. work open to qualified grads. of other univs. BJ, 1 yr. after BA. Evg. division—MA or MSc in certain areas listed above.

**HONORARY DEGREE.** LL.D.

**DIPLOMAS.** Pub. admin., 1 yr. after appropriate bachelor's degree. Evg. division—pub. admin., equivalent of 1-yr. full-time course but usually

taking longer because chiefly followed by pt.-time students.

**CERTIFICATE.** Pub. service studies, equivalent of 1-yr. full-time course (from jr. matric) but usually taking longer because chiefly followed by pt.-time students.

**FEEs.** Day division: arts, comm., journalism, pub. admin., sci., \$465 p.a.; engin., \$525 p.a. Evg. division: \$85 per course. Extension courses: \$10-\$35 per subj.

**ACADEMIC YEAR.** Winter session mid-Sept. to mid-Dec.; first wk. of Jan. to first wk. of May.

**ADULT EDUCATION.** Evg. courses, provided for employed men and women seeking degrees and dipl., are open as well to those interested only in single subjects. In addition, extension courses, for which no academic credit is allowed, are offered at low cost to interested members of the public.

**SUMMER SESSION.** Evg. classes in selected undergrad. subjects are offered in a 14-wk. summer session—June, July and Aug. Certain day courses are also offered. No degree can be obtained by attendance at summer session courses only.

**PRINCIPAL 'OPEN' AWARDS** offered to grads. of Canadian sec. schs. entering the Univ. to read for a first degree: a H. M. Tory entrance schol., \$500 each p.a.; Unison Carbide Canada Ltd. undergrad. schol., \$500 p.a. until graduation; Internat. Nickel Co. schol., about \$300 p.a. until graduation; E. B. Eddy schol., \$600 p.a. until graduation; Fairfield Oil Ltd. schol., \$600 p.a. until graduation; 6 regional entrance schols., \$1600 each. There is also a general bursary fund of \$7800 from which grants are made to students in need of financial aid.

**'OPEN' POSTGRADUATE AWARDS.** a schol. of \$1000 each and a of \$750 each are available for study in course leading to grad. dipl. in pub. admin. Supplementary bursaries may also be provided. Fellowships, varying from \$1000 to \$1500, are offered for study toward MA in pub. admin. Teaching fellowships of \$2000 each for students proceeding to grad. degrees in the humanities, soc. scis. and nat. scis.

**ATHLETICS.** Gymnasium, playing fields and fully equipped field house available, full programme of undergrad. and inter-fac. sports.

**MILITARY TRAINING.** Preparation for commissioned rank in the active or reserve forces of the royal Canadian navy, the Canadian army or the royal Canadian air force is made possible by membership in the Univ. naval trg. division, the Canadian officers' trg. corps or the R.C.A.F. reserve Univ. squadron. Trg. is on a pt.-time basis during the academic session, full-time during the summer months.

**STUDENT SERVICES.** Under the supervision of the Univ. med. adviser, a student health service is provided. Also available are counselling and guidance facilities and a student placement service.

The univ. has residences, and a housing registry is also maintained through which rooms or rooms and board may be located in near-by homes. There are ample cafeterias and snack-bar facilities.

**ALUMNI ASSOCIATION.** An alumni assocn. was formed in 1949. Grads are eligible for full membership.

**PUBLICATIONS** By the univ.—*Calendar, Bul-*

*letin* and summer session announcement, all annually; *Scholarships Announcement* By the students' assocn.—*The Carleton*, weekly newspaper; *The Rasseu*, annually; *Directory of Students*, annually.

**UNIVERSITY BOOKSHOP** Books for univ. courses may be purchased from the book store located in the new classroom bldg.

## THE YEAR 1961

**DEATHS** R. C. McDonald (sessl lectr, engin.)

**HONORARY DEGREES** *LLD*—F. G. Paston, supt., Ottawa Collegiate Sch. Bd.; M. St. A. Woodside, principal, Univ. Coll., Tor.

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at Dec. 1, 1961)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . . . .	1175	924
Women . . . . .	378	329
Total . . . . .	1553	1253

**Distribution by Faculties (day division).** *Arts*, 762; *comm.*, 150; *engin.*, 164; *journalism*, 68; *pub. admin.*, 10; *sci.*, 401; *special*, 1. Total, 1553.

*Included in the figures above are —*

Postgraduate students (day division), 36.

New admissions (day division), 753.

Students from other countries, 62 (Countries from which largest numbers came: W. Indies, Fed., 16; Hong Kong, 11; India, 5).

**DEGREES AWARDED (1960-61).** *Arts*: BA, 103; BA hon., 6; MA, 11. *Comm.*: BCom, 17. *Engin.*: BE, 10; BE hon., 8. *Journalism*: BJ, 19. *Sci.*: BSc, 42; BSc hon., 3; MSc, 2; PhD, 1. Total number of first degrees awarded, 210.

**DIPLOMAS AWARDED (1960-61)** *Pub. admin.*, 11.

**CERTIFICATES AWARDED (1960-61)** *Pub. service studies*, 8.

# DALHOUSIE UNIVERSITY§

Founded 1828

with which is affiliated the University of King's College (see p. 208)

Postal Address: Halifax, Nova Scotia, Canada

Cables and Telegrams: Dalhousie University, Halifax

Telephone (Registrar): Halifax 423-5261

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Asst. Prof.

Biblical Literature

Splattone, P. L., PhD *Ohio State*

Asst. Prof.

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Mills, A. A., PhD *Nott.*

Asst. Prof.

Laffak, K. T., PhD *Land.*

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Jones, W. R., MSc *Mt. All.*

Asst. Prof.

Dauphinee, G. A., MSc

Instr.

Biochemistry, see Medicine

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Asst. Prof.

\*von Maltzahn, K. E., MS PhD *Yale*, Assoc. Prof.

Atherton, J. P., MA *Oxon.*

Asst. Prof. (K.)

\*Pelluet, Dune, MA *Tor.* & *Bryn Mawr*, PhD *Bryn Mawr*, Assoc. Prof.

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†Lectr.

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†Prof.

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†Prof.

Dewar, G. M., DDS, FACC

†Prof.

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†Prof.

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McGowan, J. P., DDS

†Prof.

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 Buchanan, Mrs. Janet, BA *Jowa*  
 Asst. Prof., Dir. Sch. of Dent. Hyg.  
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 ChB *Edin*, FRCS(Ed) } Assoc. Prof.  
 Eaton, D. C., BSc *Acad.*, DDS } Asst. Prof.  
 Merritt, J. E., DDS *Tor*. } Asst. Prof.  
 Pentz, D. G., DDS } Asst. Prof.  
 Dawson, W. G., DPH *Tor*, DDS } Lectr.  
 Lubetky, I. K., DDS } Lectr.  
 Rogers, A. T., MBE, CD, DDS *Tor* } Lectr.  
 Spracklin, T. E., BA *Acad.*, MSc(Dent) *Tor*,  
 DDS } Lectr.  
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 Wenrang, A. S., MD CM } Lectr.  
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 Devier, E. F., DDS } Demr.  
 Eisner, D. A., DDS } Demr.  
 Epstein, R. A. I., DDS } Demr.  
 Ervin, A. H., DDS } Demr.  
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 BA *Oxon. & Del* Asst. Prof.

#### Education

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 Uhlman, H. J., MA *Acad.*, MEd *Tor*. Prof.  
 Black, R. D. H., BA *W. Ont.*, MEd *Tor*.  
 Asst. Prof.  
 6 Sp. Lectrs.†

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Theakston, H. R., BSc(Mining)  
 Hon. DEng *N.S.T.C.*, MEIC *Hawke* Prof.  
 Margison, K. F., BE(Mech) *N.S.T.C.*,  
 MEIC Assoc. Prof.  
 Vatcher, R. L., BE(Civil) *N.S.T.C.*,  
 MEIC Asst. Prof.  
 Chasholm, A. F., BE(Civil) *N.S.T.C.*,  
 MEIC } Sp. Lectr.

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 PhD *Tor* Munro Prof., Hd. of Dept.  
 \*Bennet, C. L., MA *Cambr.*, AM *Harv.* Prof.  
 \*Sprott, S. E., MA *Metb.*, BD *Metb.*  
 Div *Coll.*, PhD *Col* Prof.  
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 Dawson, R. MacG., MA *Tor*, BLitt *Oxon*  
 Asst. Prof. (K.)

Whittier, H. S., BS *U S Naval Acad.*,  
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 Fraser, J., MA *Oxon* Asst. Prof.  
 Hafler, R., BA *Vermont*, PhD *Brandeis*  
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 Cannon, A. G., BA *Lond* Lectr. (K.)

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#### French, see Romance Langs.

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 Carnegie Prof.  
 \*Milligan, G. C., MSc PhD *Harv.* Assoc. Prof.  
 Nott, D. J. G., MSc *Ley*, PhD *Utrecht*  
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 Assoc. Prof.  
 Keen, M. J., BA *Oxon.*, PhD *Cambr.* Asst. Prof.  
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 Hon. LL.D. *McG.* } Sp. Lectr.

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 Rouleston, Mrs. Auguste, BA *Sw G Wisc*  
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 Josenhans, Mia. Gertr. Lectr.

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 Prof., Hd. of Dept.  
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LLB	†Sp Lectr
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LLB	†Sp Lectr
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Acad., LLB	†Sp Lectr

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Merces, E. C., BSc	Lectr.
Burch-Jones, Mrs. Angela, BSc Lond.	†Lectr.
Barnes, J. R., PhD Birm.	Lectr.
Schlomask, N., MA Buckarest	Lectr.
Schlomask, Mrs. Dana	Lectr.

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Church, Jean G., AM Col., BSc	Asst. Dir.
Potter, Thelma I., BN McG., MSc Boston	Lectr.
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	Assoc. Prof.
Jackson, F. L., MA	Lectr.

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Hoyt, C. K., PhD M I T., MSc	
	(Electronics) Assoc. Prof.
MacKenzie, I. K., MSc W. Ont.,	
PhD Br. Col.	Assoc. Prof.
Hobart, R. H. B. W. S., BS M. I. T.,	
MS Stat., PhD Ill.	Asst. Prof.
Colman, M. G., PhD Br. Col., MSc	Asst. Prof.
Balcombe, R. J., MSc Camb.	Asst. Prof.

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PhD Tor.	Dennis Prof.
Heasman, D. J., BSc Lond.	Asst. Prof.
Stoyva, J. M., MA Br. Col., PhD Chic.	
	Asst. Prof.
Rudin, S. A., BA W. Virginia, PhD Ill.	
	Asst. Prof.

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Clark, J. W., MA McG., PhD Qu.	Asst. Prof.

**Public Affairs, Institute of**

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Maclean, D. F., BA Acad., MA	Asst. to Dir.
Brookbank, C. R., MA Tor.	
	(Indust. Reins.) Assoc.
Huller, G. A., BSc Penn., MEd Corn.	†Sp. Lectr

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Garcin-López, Marie T., PhD Madrid	
	(Spanish) Asst. Prof.
Akens, H. F., AM Yale, BA (French) Asst. Prof.	
Journaud, S., L&L Aix-Marseille	Asst. Prof.
Weiss, P., L&L Paris	Asst. Prof.
Chavy, Mrs. Suzanne J. M.-L., L&L Paris	(French) Lectr.
Boyd, E., BA St M., BEd St. F. X.,	
MA Middlebury	(French) Lectr.

**Russian**

Coffin, Mrs. Irene, L&L Paris	Asst. Prof.
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**Sociology, see Econ. and Social.****Spanish, see Romance Langs.****MEDICINE****Anaesthesia**

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Nichols, Mrs. Roberta B., BA MD	
CM	†Assoc. Prof.
Parquet, A. F., MD CM Qu.	†Assoc. Prof.
Baker, C. H. L., MD CM	†Assoc. Prof.
Ballem, R. W. M., MD CM	†Asst. Prof.

**CANADA**

Puthi, I., MB BS <i>Lond</i> , FFARCS	†Asst. Prof.	MacDonald, R. M., BSA <i>McG.</i> , MB ChB <i>Edin.</i> , FRCPCan	†Assoc. Prof.
Mackinnon, C. G., BA MD CM	†Asst. Prof.	Steeves, L. C., BA <i>Mc All.</i> , MD CM <i>McG.</i> , FRCPCan	†Assoc. Prof.
MacIntosh, A. S., BA, BSc MD CM	†Asst. Prof.	Beckwith, C. J. W., DPH <i>Tor.</i> , BA MD CM	†Assoc. Prof.
Fleming, R. A. P., MD CM <i>Que.</i>	†Asst. Prof.	Morse, W. I., MD CM, FRCPCan	Res. Assoc. Prof.
Drysdale, A. A., MD CM	†Asst. Prof.	Aikens, R. L., BSc MD CM, FRCPCan	†Assoc. Prof.
Gisham, D. V., BSc MD CM	†Asst. Prof.	Hovell, D. R. S.	†Assoc. Prof.
Anderson, T. A., BA <i>New Br.</i> , MD CM	†Instr.	Shane, S. J., BSc MD CM, FRCPCan, FACP	Assoc. Prof.
Wenning, A. S., MD CM	†Instr.	Read, H. C., MD CM	†Assoc. Prof.

**Anatomy**

Saunders, R. L., de C. H., MD <i>Edin.</i> , FRSSAF	Campbell Prof.	Howell, D. R. S.	†Assoc. Prof.
Némethy, N., MD <i>Debrass</i>	Assoc. Prof.	Shane, S. J., BSc MD CM, FRCPCan, FACP	Assoc. Prof.
Pyfe, F. W., MA MB ChB <i>Aberd.</i>	Assoc. Prof.	Read, H. C., MD CM	†Assoc. Prof.
Sami, V. K., MB BS <i>Cole</i>	Asst. Prof.	Cudkowicz, L., MD <i>Lond</i> , MRCP	Res. Assoc. Prof.
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Goudge, Miss <i>Lorna</i> , BA <i>Lond.</i> , MA <i>W. Ont.</i>	Lectr.	Woodbury, J. F. L., BSc MD CM (Rheumatism & Arthritis)	†Assoc. Prof.
Saunders, Miss S. C., MB ChB <i>Edin.</i>	Lectr.	Tonning, H. O., BSc MD CM, FRCPCan	†Asst. Prof.
Little, W. M., MD <i>Tor.</i>	†Lectr.	Colwell, G. J. H., MD CM	†Asst. Prof.
Daglish, G. H., MB ChB <i>Aberd.</i>	Instr.	Shew, A. H., MD CM	†Asst. Prof.

**Bacteriology**

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Speers, R., BA <i>Tor.</i> , MSc PhD <i>McG.</i>	Asst. Prof.	Gordon, C. A., MD CM	†Asst. Prof.
Ozma, R. L., BSc <i>McG.</i> , MD <i>Ott.</i>	Lectr.	Roy, D. L., MD CM	†Asst. Prof.
		Roberts, R. H., MD <i>Liv.</i>	†Asst. Prof.
		MacDonald, H. N. A., MD CM, FRCPCan	†Asst. Prof.

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*Macpherson, L. B., MBE, BSc <i>Acad.</i> , PhD <i>Tor.</i>	Assoc. Prof.	Murray, A. B., BA MD CM	†Lectr.
*Wainwright, S. D., BA <i>Camb.</i> , PhD <i>Lond.</i>	Res. Assoc. Prof.	Murray, W. A., MD CM	†Lectr.
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Seensiewicz, T. M., MD CM, FRCPCan	†Assoc. Prof.	Young, C. H., MD CM	†Instr.
MacIntosh, J. W., MD CM, FACP	†Assoc. Prof.	Crosby, A. S., MD CM	†Instr.
Marshall, C. S., MD CM	(Neural.)		
Reid, J. W., MD CM, MRCP	†Assoc. Prof.		
Tonning, D. J., MD CM, FACP	†Assoc. Prof.		

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Puthi, I. A., BSc MD CM, FACS	†Assoc. Prof.	Smith, D. R., MD CM	†Instr.
Coates, J. M., MB ChB <i>Edin.</i>	†Assoc. Prof.	Flight, G. H., MD CM, FRCPCan	†Instr.
Tompkins, M. G., MD CM, FRCPCan	†Assoc. Prof.		

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Keays, C. F., MD CM	†Assoc. Prof.		
Holland, L. G., BA MD CM	†Asst. Prof.		
Hammerling, J. S., BSc MD <i>N.Y. Med. Coll.</i>	†Asst. Prof.		

Shane, A. G., BSc MD CM  
Murray, D. K., MD CM, FACS  
Quigley, J. H., BSc MD CM  
Head, R. F., MB ChB Glas  
Macfie, D. D., MB ChB Glas  
Malloy, J. H., MD CM  
Glenister, E. I., BA St M, MD CM

{Asst Prof  
{Asst Prof  
{Lectr  
{Lectr  
{Lectr  
{Instr  
{Instr

**Pædiatrics**

Coward, N. B., MD CM  
Cochrane, W. A., MD Tor, FRCPCan

{Prof

Roberts, Maureen H., MB ChB Edu

Assoc Prof

Rachine, R. M., MD CM  
Ross, H. B., BSc MD CM  
Gibson, A. D., MD CM  
Grant, R. S., BSc MD CM  
Ossere, R. L., BSc McG., MD Ont  
Sigsworth, P. M. W., MD CM  
Morton, B. St. C., BSc Acad., MD CM  
Grosby, Joan M., BSc MD CM  
Hunter, Helen M., BSc MD CM  
Weste, U. A., MD Presb  
Ross, Mrs. Elizabeth D., BA Acad., MD  
CM, FRCSCan

{Asst Prof  
{Asst Prof  
{Asst Prof  
{Asst Prof  
{Asst Prof  
{Lectr  
{Lectr  
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{Lectr  
{Lectr

**Pathology**

Taylor, W. A., BSc MB ChB Glas.  
Maxwell, I. D., BSc Bant, MB ChB Edu.

Prof

Gray, J. D., MD McG  
Cooper, J., MB ChB Glas  
Harlow, C. M., PhD MD CM McG,  
BSc Hon. DSc Acad  
Read, H. C., MD CM  
Hamforth, C. P., BSc MB BS Lond.  
Krause, V. W., BSc MD Alta  
Long, H. B., MD Innsbruck  
Smith, R. L., BA MD CM McG  
Dressler, J. A. W., MD Flou  
MacKenzie, A., MD CM  
Sains, Mrs. Nimal, MB BS Luch

Assoc Prof  
{Asst Prof  
{Asst Prof  
{Asst Prof  
{Asst Prof  
{Asst Prof  
{Lectr  
{Lectr  
{Lectr  
{Lectr

**Pharmacology and Materia Medica**

\*Aldous, J. G., MA Br Col, PhD Tor  
Reynolds, A. K., BA MSc PhD W Out.

Assoc Prof  
Assoc Prof

\*Szerb, J. C., MD Munich

Assoc Prof

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FRCSCan

Prof.

\*Kaplan, J. G., AB Coll. of Catech. N. Y.,  
AM PhD Col.

Assoc Prof

Josephs, W., MD Tubingen

Assoc Prof

Cudkowicz, L., MD Lond, MRCP

Assoc Prof

Kenns, T., MD Sophro

Asst. Prof.

**Preventive Medicine**

\*Stewart, C. B., DrPH Johns H., BSc MD  
CM, FRCPCan (Epidemiol) Edly Prof

Hatches, G. H., BA MD CM McG Prof

Morton, A. R., MPH Johns H., MD CM

{Assoc Prof

Beekwith, C. J. W., DPH Tor., BA MD

{Asst Prof

Gordon, P. C., BSc MD CM

{Asst Prof

Ross, Mrs. Elizabeth D., BA Acad., MD

{Lectr

CM, FRCSCan

{Lectr

Ozore, R. L., BSc McG., MD Ont

{Lectr

MacLeod, A. J., MD CM

{Lectr

**Psychiatry**

\*Jones, R. O., BSc MD CM

Prof

MacKay, R. W. M., MD CM

{Assoc Prof

Hall, H. K., MD CM

{Assoc Prof

Hirsch, S., BSc MD CM

{Assoc Prof

Dunsworth, F. A., MD CM

{Assoc Prof

Nicholson, J. F., BSc MD CM

{Asst Prof

Weil, R. J., MD Prince

{Asst Prof

Pottle, C. H., MD CM

{Asst Prof

Prosser, R. R., MD Edu

{Asst Prof

Kilpatrick, Elizabeth, MD Long Island Coll

{Lectr

& Dal. CM

{Lectr

Shane, A. M., BSc MD CM

{Lectr

Harach, Mrs. Doris, BA Vassar,

{Instr

MD Johns H.

**Radiology**

Manchester, J. S., MD CM

{Prof

Stupleton, J. E., MB BS Syd

{Assoc Prof

(Radiother.)

James, R. H., MA MD Camb, MRCP

{Assoc Prof

Smith, R. L., BA MD CM McG

{Assoc Prof

Jones, C. M., MD CM, FACS

{Assoc Prof

Skinner, N. S., MD CM McG.

{Asst Prof

Filbee, J. F., MB BS Lond

{Asst Prof

Davis, G. E., MD CM

{Asst Prof

Cunningham, R. M., MD Tor.

{Lectr

MacLeod, I. M., MD CM

{Lectr

Shaw, A. J., MD CM

{Instr.

Grantmyre, E. B., MD CM

{Instr

Kereszturi, J. J., MD Chy

{Instr

Shannon, M. P

{Instr.

**Surgery and Clinical Surgery**

MacKenzie, I., MBR, MB ChB Edu.

Prof., Hd. of Dept

FRCSed, FRCSCan

Prof., Hd. of Dept

Kinley, C. E., MD CM, FRCSCan,

{Prof

FACS

{Prof

Noble, J. A., OBE, BA Acad, MB ChB Edu.,

{Assoc Prof

FRCSed

{Assoc Prof

Ross, E. F., OBE, BSc MD CM,

{Assoc Prof

FRCSCan, FACS

{Assoc Prof

Murphy, A. L., BA MD CM, FACS

{Assoc Prof

Stevenson, W. D., MD Tor, FRCSCan

{Assoc Prof

(Neuro-Surg.)

{Assoc Prof

Acker, J. C., MD CM McG

{Assoc Prof

(Orthoped.)

{Assoc Prof

Menst, J. W., MD CM, FRCSCan,

{Assoc Prof

FACS

{Assoc Prof

Miller, B. F., BA St F.X., MD CM

{Assoc Prof

MCh(Orth.), FRCSed

{Assoc Prof

(Orthoped.)

{Assoc Prof



Coady, B. K., BA MD CM, FACS	Assoc. Prof
House, W. K., MD <i>Mont.</i> , FRCS	Ed
	†Asst. Prof.
Nonemaker, E. P., MD CM, FRCS	Can
	†Asst. Prof.
Bethune, G. W., BSc <i>Acad.</i> , MD CM,	FRCS
	Can
	†Asst. Prof.
Charman, J. H., MD CM, FRCS	Can
	†Asst. Prof.
Norvell, S. T., BSc MD <i>Ill.</i> , FRCS	Can
	Asst. Prof.
Maciver, D. A., MB ChB <i>Edin.</i>	†Asst. Prof.
Elliott, R. C., MD CM <i>Qw.</i> , FRCS	Can
	†Asst. Prof.
Tucker, H. H., MD CM, FRCS	Can
(Neuro-Surg.)	†Asst. Prof.
Barton, F. J., MD CM, FACS	†Asst. Prof.
Pollett, W. E., BA MD CM, FRCS	Ed,
	FRCS
	Can
Stewart, H. L., MD CM	†Lectr.
Doim, F. G., BSc <i>St. F. X.</i> , MD CM,	FRCS
	Can
	†Lectr.
LeBrun, G. J., MD CM	†Lectr.
Parves, J. K. B., MD CM, FRCS	Can
	†Lectr.
Ross, J. F., MD CM, FRCS	Can
	†Lectr.
Marshall, A. M., MD CM, FRCS	Ed
	†Instr.
Auld, C. R. B., BSc <i>Acad.</i> , MD CM	McG.
	†Lectr.
Cassidy, M. T., MD CM, FRCS	Can,
	FACS
	†Lectr.
Myrden, J. A., BSc MD CM, FRCS	Can
	†Lectr.
Sinclair, A. M., MD CM, FRCS	Can
	†Lectr.
<b>Urology</b>	
Gosse, C. L., BSc MD CM, FACS	†Prof

Mack, F. G., MD CM, FRCS	Can
	†Assoc. Prof.
Ernst, W. A., BSc MD CM	†Asst. Prof.
Reardon, C. H., MD CM	†Inst.
MacGregor, H. I., BSc MD CM	†Inst.

### Medical Postgraduate Studies

Steeves, L. C., BA <i>McG.</i> , MD CM	McG.
	FRCS
	Dir

### GRADUATE STUDIES

(For other members of Fac., see those marked \* under sep. subjects, above)

Neish, A. C., PhD <i>McG.</i> , FRCS	Can
	(Biol.)
Henson, G., BA <i>Acad.</i>	(Pub. Admin.)
	†Prof
§Beach, H. D., BA <i>Sask. &amp; Ont.</i> , PhD <i>McG.</i>	
	(Psychol.)
	Assoc. Prof.
§Coons, W. H., BA <i>Alta.</i> , PhD <i>Tor.</i>	
	(Psychol.)
	Assoc. Prof.
§Fergusson, C. B., DPhil <i>Oxon.</i> , BA	
	(Hist.)
	†Assoc. Prof.
Vining, L. C., MSc <i>Acad.</i> , PhD <i>Can.</i>	
	(Biol.)
	†Assoc. Prof.
Towers, G. H. N., MSc <i>McG.</i> , PhD <i>Can.</i>	
	(Biol.)
	†Assoc. Prof.
Manson, C. R., PhD <i>Abad.</i>	
	(Chem.)
	†Assoc. Prof.
McIntosh, A. G., MSc <i>Glas.</i> , PhD <i>Ott.</i>	
	(Chem.)
	†Asst. Prof.
Campbell, N. J., PhD <i>Br. Col.</i>	†Hon. Lectr.
Trist, R. W., PhD <i>Br. Col.</i>	†Hon. Lectr.

### ADMINISTRATIVE AND OTHER STAFF

Dir., Inst. of Public Affairs: G. Henson, BA *Acad.* Dir., Inst. of Oceanography: F. R. Hayes, PhD DSc *Liv.*, MSc, FRCS. Dir., Sch. of Nursing: E. A. Elton MacLennan, AM *Col.*, BA. Dir., Public Health Clinic: C. B. Stewart, DrPH *Johns H.*, BSc MD CM, FRCS. Dir., Students' Health Service: W. A. Murray, MD CM. Univ. Engineer: A. F. Chisholm, BE (Civil) *N.S.T.C.*, MEIC. Sec., Fac. of Arts and Sci.: A. S. Mowat, MA *Ed. Edu.* Sec., Fac. of Law:

E. C. Harris, LL.M. *Harr.*, BCom LL.B., CA Sec., Fac. of Med.: C. B. Weld, MA *Br. Col.*, MD *Tor.*, FRCS. Sec., Fac. of Dent.: R. H. Bingham, DDS. Sec., Fac. of Grad. Studies: P. B. Watts, MA *Br. Col.*, PhD *Tor.* Warden, Sheriff Hall (Women's Residence): ..... Hd., Men's Residence: G. R. MacLennan, BA *Oxon.*, PhD *Duke*, MA *Du.* Alumni Affairs: B. G. Iruin, CD, BCom. Dir., Phys. Educ. for Men: ..... Accountant: D. N. Borgal.

### ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, see p. 208.

PINE HILL DIVINITY HALL, Halifax (tel.: 3-6939) Founded in 1820 as a Presbyterian theol. coll., is now under United Church of Canada. Classes of a full yr. in theol. are recognized as 1 yr. for the BA. Students may complete the div. course at the Hall and take the BA in 6 yrs. Confers the degree BD. Principal—

Very Rev. C. M. Nicholson, BA DD LL.D. 4 other Profs.

KING'S COLLEGE DIVINITY SCHOOL (see p. 208). The classes and exams. in div. are recognized on the same terms as those of Pine Hill Div. Hall.

MARITIME CONSERVATORY OF MUSIC, Halifax (tel.: 5-4343). Courses recognized for BMus and LicMus of Dalhousie. Director—.....

§ Also member of Fac. of Arts and Sci.

Maritime College of Pharmacy, Halifax (tel.: 423-6735) Founded 1911. *As of July 1,*

1961, this coll became part of fac of health professions, Univ of Dalhousie. See below, and p 207

## GENERAL INFORMATION

Dalhousie Coll., founded in 1818 by the ninth Earl of Dalhousie, has been discharging univ. functions since 1863 when it was reorganized and reopened with a staff of 6 profs. From 1879 devel. was rapid, helped by the benefactions of G Munro of N.Y., A. McLeod of Halifax and Sir Wm Young. In 1883 the fac. of law was establd., and in 1906 pure sci. united with arts to form the fac. of arts & sci. Appl. sci. was replaced by the fac. of engin., which was later reduced to a dept. by agreement with other maritime univs. when the NSTC opened for professional teaching. In 1911 the fac. of med. and in 1912 the fac. of dent. assumed full teaching duties. The Maritime Coll. of Pharm. was given quarters in the univ. in 1911 and was incorporated in the univ. in 1961 as part of the fac. of health professions. The fac. of grad studies was establd. in 1949. The sch. of nursing, establd. in 1956, became part of the fac. of health professions in 1961. The sch. of dent. hyg. was organized in 1961.

In 1912 \$400,000 was collected for an addnl. site (40 acres) and bldgs. towards which Andrew Carnegie gave \$40,000. Other gifts from the Carnegie Corporation and the Rockefeller Foundation permitted expansion of facilities for the med. sch. after 1918. In 1923 the Univ. of King's Coll., in assoc. with Dalhousie, was given a site on the new campus (see below). The International Commission for the Northwest Atlantic Fisheries accepted the univ.'s invitation to establish its permanent headquarters in Dalhousie in 1953. A new arts and admin. bldg. was opened in 1952, and the O. E. Smith wing of the Macdonald memorial library, containing the Kipling room, in 1956. The Sir James Dunn sci. bldg. was formally opened in Oct. 1960. A new men's residence with accomm. for 150 students opened on Jan. 1, 1961. About half of total cost of \$1,600,000 was provided by Canada Council.

**CONSTITUTION** The bd. of governors is the supreme governing body of the univ. Appts. to it are made by the governor-in-council on the nomination of the lid. The governors have the management of the funds and property of the univ., the power of appointing the pres., profs., and other officials and of determining their duties and salaries; and the general oversight of the work of the univ. The senate consists of the pres. and profs. To this body are entrusted, by statute, the internal regns. of the univ., subject to the approval of the governors. All degrees are conferred by the senate. The fac. consist of the members of the teaching staff in each of the 5 main domains of study in which courses can be pursued, namely, arts & sci., law, med., dent. and grad studies. To them are entrusted by the senate, sub-

ject to its approval, supervision of teaching, preparation of regns. governing courses of study, and recommendation of suitable candidates for prizes, scholships, dipls. and degrees.

**INCOME (1960-61).** \$3,391,500 (student fees, 23.8 per cent., endowments, 16.5 per cent., govt. grants, 29.8 per cent.; individuals, etc., 29.9 per cent.).

**FACULTIES AND DEANS.** *Arts & sci.,* Dr. H. D. Hicks, *dent.* Prof. J. D. McLean, *grad studies,* Prof. W. R. Trest (*chem.*); *health professions,* ... *law,* Prof. H. K. Read, *med.,* Prof. C. B. Stewart (*prev. med.*)

**UNIVERSITY CAMPUS.** The univ. is housed on 2 principal campuses; the older ("Forrest") is bounded by University Ave., Robie, College and Carleton Sts. It includes book, dent., med., med. sci., oceanog., pub. health clinic and med. and dent. library. Studley campus, bounded by Coburg Rd., Oxford, South and LeMarchant Sts., includes arts and admin. bldg., the Sir James Dunn sci. bldg. (engin., geol. and phys.), the univ. library, law sch. and library, chem., educh., pharmacy, women's and men's residences, gym, rink and playing field. Bldgs. of the Univ. of King's Coll., the pub. archives of NS and the regional lab. of the Natl. Res. Council of Canada are situated in Studley campus.

**LIBRARIES.** *Arts & sci.*—15,950 books and bound periodicals, *med. & dent.*—28,925 books, journals and pamphlets, *law*—30,350 books and bound journals; *nursing*—1500 books, journals and periodicals. **PUBLIC ARCHIVES** of NOVA SCOTIA (located on univ. campus), comprising MSS., newspapers, historical pictures and res. libraries.

**LABORATORIES.** *Anat., biochem., biol., chem., engin., geol., histol., mod. lang., pathol., pharm., phys., physiol.*

**INSTITUTE OF PUBLIC AFFAIRS**, in which profs. of the facs. of arts, law and med. co-operate. The res. carried out under its auspices is mainly concerned with problems of municipal govt. and social services. Associated with the inst. are the Dalhousie Bureau of Indust. Relns., the Dalhousie Labour-Univ. Ctr., and the Municipal Consulting Ctr.

**INSTITUTE OF OCEANOGRAPHY**, establd. with aid of grants from the Natl. Res. Council of Canada provides courses leading to MSc. and PhD.

**TEACHING HOSPITALS.** *Teaching units:* (a) Victoria General H., Halifax Children's H., Grace Maternity H., Halifax Inf., Canadian Forces H., and affiliated hospis. (b) Saint John General H. and affiliated hospis. *Affiliated hospis.*

Camp Hall H., City of Sydney H., Aberdeen H., P.E.I.H., Victoria Pub. H., Moncton General H., St. John's General H.

**ADMISSION** For admission to univ. courses in arts, sci., econ., comm., engin., nursing, pharmacy, music, see Appendix III.

**LLB**—as for arts & sci. and completion of 3 full yrs' work of a course leading to a BA, BSc or BCom degree; MD—as for arts & sci., and completion of the following 15 univ. classes: Engl. 1 and 2, maths. 1, chem. 1, 2, 4, phys. 1, biol. 1, zool. 2, hist. 1, four others from dept. of Engl., classics, hist., mod. langs., philos., psychol., econ., pol. sci. and math., and one other from these depts. or from sci.; DDS—as for arts & sci., and completion of the following 10 univ. classes: Engl. 1, maths. 1, chem. 1, 2, 4, phys. 1, biol. 1, zool. 2, and two electives from classics, econ., Engl., hist., mod. langs., philos., pol. sci., psychol.

**FIRST DEGREE** 4 yrs. from jr. matric—BA, BSc, BCom, BMus, BSc(Pharm); BN—on completion of 15 univ. classes in fac. of arts & sci. plus clin. period of 30 mos. in hosp., 3 yrs., following certain univ. classes—LLB: 4 yrs.—DDS: 5 yrs.—MD

In addition to the old course in arts & sci., there are hon. courses (also 4 yrs.) in biol., chem., classics, econ. & social, Engl. lang. & lit., geol., hist., maths., mod. langs., philos., phys., pol. sci., psychol.

Evening classes are offered: some of these give academic credit in arts to qualified students.

**HIGHER DEGREES, LL.M.**: candidates must hold LLB with high standing from Dal. or another approved law sch.; minimum of 1 yr.'s res. required. MA or MSc given on successful completion of a 2-yr. course (minimum of 1 yr. for approved hon. grads.) by a BA or BSc of approved univ. for courses in bacteriol., biochem., biol. (bot. & zool.), chem., classics, econ., Engl. lang. & lit., French, geol., German, hist., maths., oceanog., pathol., pharmaceutical chem., pharmacol., philos., phys., physiol., pol. sci., psychol. BEd is given on 1-yr. course, after BA, BSc or BCom. PhD (biol., chem., econ., oceanog., phys. and psychol.) given on completion by BA or BSc of res. and approved course of at least 3 yrs.

**HONORARY DEGREE, LL.D.**

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS** Engin., 3 yrs. from jr. matric (enables students to complete a degree course at N.S.T.C., McG., Qu., Tor. or certain other instns. after a further 2 yrs.); educn., 2 and 3 yrs. from jr. matric.; LicMds., 3 yrs.; nursing, 1 yr.; dent hyg., 2 yrs.; psychiatry, 3 yrs. from MD and approved hosp. practice; grad. dipl. in clin. psychol., 1 yr. following MA.

**STUDY LEAVE.** Sabbatical leave for study and res. is available to permanent full-time members of the teaching staff.

**FEEs** Tuition inclusive for session Oct.—May—arts, sci., comm., educn., law, pharm., 1st two yrs. nursing, \$465, engin., \$520, med., 1st to 4th yrs incl., \$565, 4th yr., \$425; dent., \$585 50; dent. hyg., \$435, grad. studies and 6th-yr. nursing, \$405, nursing 3rd, 4th, 5th yrs., \$9 (clin.) Instruments and yearbook addnl. Students enrolled for 1 or 2 classes, \$90 per class, otherwise full fees.

**ACADEMIC YEAR.** Sept. 24—May 16 (approx.) for arts & sci. and grad. facs.; Sept. 4—May 31 (approx.) for med. and dent. facs. and dipl. courses in nursing; Sept. 11—May 31 (approx.) for law fac.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS** Grad. scholrps and teaching fellowships are open to selected hon. grads. of British and U.S. univs. Sp. fellowships in chem., phys. and Engl. Natrl. Res. Council offers postdoctorate fellowships in biol., chem. and phys. (one each).

**LOAN AND AID FUNDS** for students have been instituted.

**STUDENT RESIDENCES** For women: Sherreff Hall, Halifax (tel. 422-2545) (100 students); charges: double room, \$57½, single room, \$600 per session. For men: residence accomm. 150; charges approx. \$358 per session. Catering service for all students.

**STUDENTS' HEALTH SERVICE AND PHYSICAL TRAINING** All new students are required to submit to med. exam. at beginning of session. The students' health service provides for this exam. and for med. services for minor ailments. A modern gymnasium and a rink, with artificial ice, provide adequate facilities for recreation and phys. trig.

**ALUMNI ASSOCIATION** Office with permanent sec. and dir. in arts and admin. bldg. Publicn. *Alumni News* (quarterly).

**PUBLICATIONS.** *Calendar* (May); *Annual Report* (Aug.); *Gazette* (Oct.—March); *Dalhousie Review*, quarterly. See also 'Dalhousie University Press', below.

**DALHOUSIE UNIVERSITY PRESS** (founded 1957), through a cttee. and in conjunction with printers and other publishers, undertakes publicn. of works relating to the univ. Publicns. incl.: *George Munro, the Publisher* (1957) and *A Bibliographical Catalogue of the Works of Rudyard Kipling* (Dal. Univ. Press and Univ. of Tor. Press, Tor., 1959, \$20).

## THE YEAR 1961

**PRINCIPAL BENEFRACTIONS** Canada Council, \$410,637, Sir James Dunn Foundation, \$215,608

(Total value of all benefractions received; excl. govt. grants: \$1,140,145)

NEW FACULTY AND SCHOOL Fac of health professions, comprising coll. of pharm (formerly maritime coll of pharm, which was incorporated in Dalhousie as of July 1, 1961), and sch of nursing, sch of dent hyg

RETIREDMENTS Prof C L Bennet (vice-pres, dean, sec of grad studies), Prof J H L. Johnstone (phys), Prof Frances Marshall (psychol.)

RESIGNATIONS Dr. K Aterman (pathol.); Dr J. E. Bethune (med), Dr. J. O. Godden (prev med), Dr. C. R. Lesau (anat.); C F. Moir (educn), Dr D. J. MacKenzie (prev med.), A L. Neel (econ), Mrs. Régine Robinson (French); Dr H. R. Rutten (med), J M Teal (biol)

DEATHS Dr A E. Doull (prof, hd of dept of ophthalmol & oto-laryngol); Dr W. Leslie (asst prof of med), Dr A J Murchison (asst. prof. of psychiatry).

HONORARY DEGREES LL.D.—Dr H. B. Atlee, prof, hd of dept of obstet & gynaeol, 1928–58, Rt Hon. J. G. Diefenbaker, prime minister of Canada, Dr N H Gossie, surgeon; W. H Howard, barrister and solicitor, Miss Jessie MacKnight, pharmacist, A W. Trueman, dir, Canada Council

## Statistics

## STUDENT NUMBERS, 1961–62

	Full-Time	Part-Time
Men	1578	39
Women	611	22
Total	2189	61

Distribution by Faculties. Arts & sci, 1568, dent, 60, dent hyg, 8, grad studies, 99; law, 110; med., 314; nursing, 91 Total 2230

Included in the figures above are —

Postgraduate students, 140.

New admissions, 767

Students from other countries, 231 (Countries from which largest numbers came U.S.A., 92; W Indies Fed & Bermuda, 60)

DEGREES AWARDED (1960–61) Arts: BA hons, 12, BA, 57, MA, 11. Comm: BCom, 25, Dent: DDS, 13, Educn.: BEd, 33, Law: LLB, 35, Med: MD, 49. Sci.: BSc hons, 6, BSc, 33. Nursing: BN, 1; BNSc, 2, MSc, 11.

DIPLOMAS AWARDED (1960–61). Educn.: pr. dipl., 4; sr dipl., 6, engin., 23, pharm., 12, pub health nursing, 12; teaching in schs. of nursing, 11; nursing service admin., 10, LicMus, 2

# UNIVERSITY OF KING'S COLLEGE\*

Founded 1789; Royal Charter 1802

Postal Address: Halifax, Nova Scotia, Canada

Cables and Telegrams: University of King's College, Halifax, Nova Scotia

Telephone: Halifax 423-7497

PATRON—THE ARCHBISHOP OF CANTERBURY

VISITOR—THE LORD BISHOP OF NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—*Rt. Rev. R. H. WATKINSON, BA BD Bishop's, Hon. DD Chancellor—H. R. MILNES, QC, LLB Dal, Hon. DCL Mt AN, Hon. LLD Alta & Dal., BA Hon DCL*

PRESIDENT AND VICE-CHANCELLOR—*Rev. Canon H. L. PUXLEY, MA Oxon. & Yale, LTh DD Trin Coll Tor.*

DEANS—*DIVINITY—Rev. Canon H. L. PUXLEY, MA Oxon. & Yale, LTh DD Trin Coll Tor.; DEAN OF MEN—J. P. ACHERTON, MA Oxon., DEAN OF WOMEN AND REGISTRAR—Mrs. WARRENA POWER, BSc Dal*

TREASURER—*F. A. LANE*

SECRETARY—*E. D. HOSLOCK*

LIBRARIAN—*H. S. GRANTER, BA Dal, AM Harv*

BURSAR—*C. FOX*

## TEACHING STAFF

### ARTS AND SCIENCE

(On King's Foundation, in association with Dalhousie University)

Classics		Hebrew	
Acherton, J. P., MA Oxon.	Asst. Prof.	Clarkson, Rev. Canon W. W., BSLitt	Lectr.
Economics and Sociology		History	
Uhlir, F., PhD <i>Prague</i>	Assoc. Prof.	Granter, H. S., BA Dal, AM Harv.	Asst. Prof.
Clearmonte, F. F., DSc(Econ) <i>Geneva</i>	Asst. Prof.	Mathematics	
English Language and Literature		Houghton, E. L., BSc MA Dal.	Asst. Prof.
Dawson, R. MacG., MA Tr., BSLitt Oxon.	Asst. Prof.	Psychology	
Cannon, A. G., BA Lond	Lectr.	Pogo, F. H., MA Tr.	Prof.

### DIVINITY

Church History		English Bible	
Hibbitts, Rev. J. B., MA Dal, STM General	Prof.	Hibbitts, Rev. J. B., MA Dal, STM General	Prof.
<i>Theol Sem., DPhil Oxon, BSLitt</i>		<i>Theol Sem.(N.Y.), DPhil Oxon, BSLitt</i>	
Purley, Rev. Canon H. L., MA Oxon. & Yale, LTh DD Trin.Coll.Tor.	Prof.	Stokoe, Rev. R. J. R., BSc BA	Assoc. Prof.
Stano, Rev. C. W. F., BA BD	Assoc. Prof.	<i>DipTh Durh</i>	
Dogmatic Theology		Hebrew and New Testament Greek	
Woodhouse, Rev. H. F., BA HDipEd	Prof.	Hibbitts, Rev. J. B., MA Dal, STM General	Prof.
DD Dub.		<i>Theol Sem.(N.Y.), DPhil Oxon, BSLitt</i>	

\* Member of the Association of Universities of the British Commonwealth

**Liturgics**

Stone, Rev. C. W. F., BA BD

Assoc. Prof

**Philosophy of Religion**

Stone, Rev. C. W. F., BA BD

Assoc. Prof

Uhlir, F., PhD *Progrus*

Sp. Lectr

Page, F. A., MA

Sp. Lectr.

**Pastoralia**

Stokoe, Rev. R. J. R., BSc BA

DipTh *Dunk*

Assoc. Prof

**JOURNALISM**

McCleave, R. J., BA LLB

Chairman of Bd., Dir. of Studies

Cosey, Mary, BA

Lectr

Cochran, C. B., BComm

Lectr

Browne, W., BA

Lectr

**ADMINISTRATIVE AND OTHER STAFF**Public Relations Officer: P. R. Doug, BA  
BComm, *Dof.* Asst. Librarian: Zaidie A. Harris.Supervisor of Domestic Staff: Mrs Ethel M  
Desborough.**ASSOCIATED AND AFFILIATED INSTITUTIONS**

DALHOUSIE UNIVERSITY, see p. 199.

**HALIFAX LAMBS' COLLEGE**, Halifax, N.S. (tel 423-7920) Students who have completed the regular course and received the matric. dipl. are admitted to the arts or sci. course without further exam. Principal—Marion Dauphinee, BA.

**HALIFAX SCHOOL OF JOURNALISM**, Univ. of King's Coll., Halifax, N.S. (tel : 423-7497) The sch. is a jt. undertaking of Univ of King's Coll., St. Mary's Univ., Mt. St. Vincent Coll., the Halifax Chronicle-Herald and radio station CJCH. The sch., which has its own bd. of governors with a reps. from each instn., grants a

dipl. in journalism 3 yrs. after jr. matric. Dean—R. J. McCleave, BA LLB. For staff, see above.

**MARITIME SCHOOL OF SOCIAL WORK** (tel : Halifax 423-8762). Approved grads of Univ of King's Coll. and other recognized univs who have completed a yrs' profess. trg. at the sch. are granted the degree of master of social work (MSW) by Univ. of King's Coll. DR.—L. T. Hancock, MA Chur., BSW *McG.*

**PRINCE OF WALES COLLIER**, Charlottetown, P.E.I. (tel.: 894-7319) Students holding certain certs. of the coll. enter the 1st or 2d yr. of the BA course at Dalhousie-King's. Principal—F. MacKinnon, BA *McG.*, MA PhD *Ter.*, LLD *New Br.*

**GENERAL INFORMATION**

Opened in 1789 at Windsor, N.S., the univ. was established by provincial statute and granted a royal charter by King George III in 1802. In 1923 King's removed to Halifax and became associated with Dalhousie Univ., as far as arts and sci. are concerned. The academic facilities in arts and sci. are shared by the students of both univs. for the time being, but King's retains complete control of her div. sch., as well as of her present endowments, admn. of residence and all internal matters. Under the terms of the agreement between Dalhousie and King's the univ. was re-established in Halifax by means of private subscriptions and with the financial aid of the Carnegie corporation, which endowed the teaching of liberal arts.

**CONSTITUTION.** The univ. is governed by a bd. consisting of the bishops of the dioceses of N.S. and Fredericton, the pres. and treasurer of the univ., ex officio, together with 8 members elected by the alumni assocn., 6 elected by the diocesan synods and 8 co-opted by the bd.

**INCOME (1960).** Total income, \$265,000 (govt. grants, 12 per cent.; other grants (incl. diocesan), 9 per cent.; endowment, 46 per cent.; fees and residence charges, 33 per cent.)

**FACULTIES AND DEANS,** see p. 208.

**LIBRARY.** About 40,000 vols., 40 incunabula and a number of illuminated medieval MSS. Particularly rich in books of 18th cent. Specialises in arts and div. Fine collection of unated empire loyalist chms.

**ADMISSION** See Appendix III.

**FIRST DEGREES (of Dalhousie Univ.).** Courses (4 yrs. from jr. matric.) provided for BA (pass, hon.), BSc (pass, hon.) A degree with hon. may be obtained in biol., chem., classics, econ. & social, Engl. lang. & lit., geol., hist., maths., mod. langs., philos., phys., pol. sci., psychol.

**HIGHER DEGREES (awarded by KCNS.)** BSLitt (bachelor of sacred letters), BST (bachelor of sacred theol.), 3 yrs. after BA or BSc. MSW,

2 yrs. at Maritime Sch. of Soc. Work (*see above*) after BA or BSc. BD, 3 yrs. after BA on recommendation of bd. of examiners of General Synod of Anglican Church of Canada.

Students wishing to read for MA or MSc must transfer to Dalhousie Univ.

HONORARY DEGREES. DD, DCL, DCal.

The univ. does not award EXTERRAL DEGREES

DIPLOMAS, ETC. LTh, 3 yrs. after BA. Testatur in theol., 4 yrs. STh (scholar of theol.), on recommendation of bd. of examiners of General Synod of Anglican Church of Canada. AKC(NS), equivalent of a yrs' postgrad. study after LTh or STh. Journalism, 3 yrs. at Halifax Sch. of Journalism (*see above*) from jr. matric.

FEEs Tuition: arts & sci., \$428 p a., div., \$150 p a. Residence (room & board) \$600, single room; \$575, double room.

ACADEMIC YEAR Oct. to June.

ENTRANCE SCHOLARSHIPS. 7 foundation scholaps (\$1000 each), 6 chancellor's scholaps. (\$1500 each)

STUDENT RESIDENCES For men, residence for 105 students; for women, Alexandra Hall (dean, Mrs. Warren Power), 100 students.

MILITARY TRAINING. Canadian officers' trg. corps, univ. naval trg. div., royal Canadian air force div.

STUDENT HEALTH. Medical services in residence. *See also under* Dalhousie Univ.

ATHLETICS Facilities for men: ice hockey, basket-ball, soccer, curling, badminton. For women: ground hockey, basket-ball, badminton, volley-ball, skating, tennis.

PUBLICATIONS *Calendar* (annual); *Record* (students year book); *Tidings* (alumni news), monthly Oct.-June.

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	124	2
Women	62	1
Total	186	3

Distribution by Faculties and Schools. *Arts & sci.*, 164; *journalism*, 6 (also registered in arts); *theol.*, 22. Total: 186.

Included in the figures above are —

Postgraduate students, 8.

New admissions, 60.

Students from other countries, 16. (Countries from which largest numbers came: U.S.A., 4, S. America, 4)

DEGREES AWARDED (1960-61). By Dalhousie BA, 15; BSc, 5. By King's. MSW, 3, BD, 1

DIPLOMAS AWARDED (1960-61) LTh, 3, journalism, 2

# LAVAL UNIVERSITY\*

Founded 1852

Postal Address: Rue de l'Université, Québec 4, P.Q., Canada

Cables and Telegrams: Laval University, Québec

Telephones: 520-4511; 681-4631

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RECTOR MAGNIFICUS—Mgr. L.-A. VACHON, DTh DPh Rome  
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SECRETARY GENERAL—Mgr. J. GARREAU, LPh LTh  
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TREASURER—Canon E. JOHNSON, BA  
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ARCHIVIST—Mgr. A. MAHEUX, OBE, L&L Paris, DTh MA

## TEACHING STAFF

<b>Actuarial Science</b>		Jean, Y., BA BScApp	Asst. Prof.
Picard, J. P.	Asst. Prof.	Pelletier, J. R., MSc McG, MSA	Asst. Prof.
Pouliot, Y.	Instr.	Proulx, M., BSA	Asst. Prof.
Jutras, C.	Instr.	Sirois, A., BSA	Asst. Prof.
Paradis, G.	Instr.	Villeneuve, G. O., BScApp MSc NY, PhD Yale	Asst. Prof.
<b>Administration, see also Comm.</b>		Quellette, G.-J., BSA PhD Wis.	Asst. Prof.
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<b>Agriculture</b>		Dessureaux, L., BSA MSc PhD Wis.	Asst. Prof.
Campagna, F., BSA DSc	Prof.	Chouinard, L., BSA MSc	Asst. Prof.
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Dumont, Mgr. J., LPh LSc	Prof.	Raymond, R., BScP	Asst. Prof.
Gagné, C., BSA MSc Corn.	Prof.	Thiboutot, M., IF	Asst. Prof.
Jean, F. X., MSc Corn, LPh	Prof.	Lemay, J. P., LScAg Mout., MSc Amherst	Asst. Prof.
St.-Pierre, M., BSA DSc Corn.	Prof.	Fortin, J. M., MSA Tor.	Asst. Prof.
Scott, A., MSA Tor	Prof.	Caron, L., BA BSA	Instr.
Bélubé, Louis, BA BSA MScSoc	Prof.	Delage, R., BA IF	Instr.
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Poirier, R., DSc Iowa	Prof.	Gusman, A., BSA	Instr.
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Gauthier, G., BSA MSc Corn., DScNat	Asst. Prof.	Thérige, J.-M., BSA	Instr.
	Asst. Prof.	Bellavance, L., BScP	Instr.
	Asst. Prof.	Blais, P.	Instr.
Dupuis, L. A., LLB	Asst. Prof.	Coulombe, L. J., DSc McG	Instr.

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 De Roy, J. M., BPh  
 Michaud, M. A.  
 Tudel, P., BSc Montr.  
 Forest, B., BSA  
 Danes, M., MSc Mas.  
 Lord, R., AG IF MSc  
 Baribeau, B., BSA Montr.  
 Lord, L., BSA MSc Wtr  
 Martin, G. B., BScP

#### Anatomy, see Medicine

#### Apologetics

Drouin, M., LPh BTh  
 Tardif, Mgr. R.  
 Gay, P., LTh Rome

#### Archaeology

Desgagnés, J., LPh

#### Astronomy

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 Patrot, L., MScFor IngDr Nancy

#### Biochemistry, see also Medicine

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 Lemonde, A., DSc  
 Talbot, G., DSc

#### Biology, see also Medicine

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#### Cartography

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#### Chemistry

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 Gagnon, P.-E., DIC, DSc Parr., BScApp  
 DPh  
 Gagnon, P.-A., PhD McG., BScApp  
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 Guillet, C., BScApp DSc Zib  
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 Bussard, P., DSc  
 Blanchard, L. P., DSc  
 Soucy, J. R., DSc Poudre

#### City Management

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#### Commerce

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 LScCom Prof.  
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 Bouchard, P., LLL Instr.







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**Physiology, see Medicine, below****Religion**

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Poulin, E.  
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Madeleine-de-la-Résurrection, Sr.  
Galarneau, J.  
Giguère, L.  
Guérard, A.  
Pichette, Canon H., LScSoc DTh

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(Sociol.) Prof.  
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Instr. Paré, Samone, LScSoc Prof.  
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Dion, L., MScSoc Prof.  
Bergeron, G., MScSoc Prof.  
Hodgson, J., MScSoc Prof.  
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Chartier, R., MScSoc Asst. Prof.  
St.-Laurent, J., MScSoc Asst. Prof.  
Fortin, G., PhD *Corn.*, MScSoc Asst. Prof.  
Marian, Y., MScSoc Asst. Prof.  
Moun, C., MScW *Cal.* Asst. Prof.  
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Boucher, B., MD Instr.  
Gend, L., LPh Instr.  
Poirier, G., BScServ Instr.  
Bergeron, M., LLL Instr.  
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Lemieux, V., MScPol Instr.  
Bélanger, P., MScSoc Instr.  
Provence, F., MScPol Asst.  
DuRanquet, Mathilde, BScivSoc Asst.  
Tremblay, Christiana, MScSoc Asst.

**Surveying**

Jones, L., BScApp IC *Montr.*, AG Prof.  
Guay, F., AG IF Asst. Prof.

**Theology, see below****Transportation**

St.-Jacques, J., BScApp Asst. Prof.  
Roux, R., BScApp Asst. Prof.  
Marchand, L. Asst. Prof.

**LAW****Administrative and Constitutional Law**

Pigeon, L.-P., LLL Prof.  
Cimon, A., LLL Instr.  
Desgagné, A., LLD *Paris* Instr.

**Aviation Law**

Moun, Judge W., LLL Prof.

**Bibliography**

Lortie, L., LLL Asst. Prof.

## Civil Law

Hudon, G., LLL  
 Turgeon, J., LLL  
 Gagné, M., LLL  
 Lehey, J., LLL  
 De Billy, J., LLL

Prof  
 Prof  
 Prof  
 Instr  
 Instr

## Commercial and Maritime Law

Frette, Y., LLL  
 Baud, S., LLL  
 Chouinard, J., LLL

Asst Prof.  
 Instr  
 Instr

## Criminal Law

Lacroix, Judge G., LPh LLL  
 Dumontet, Judge A., LLL

Prof  
 Instr

## Ethics

Pouliot, L. A., LLD

Instr.

## Industrial Legislation

Parent, S. G., LLD

Asst. Prof.

## International Law

Puty, A., LScSoc

Asst. Prof.

## Municipal and Educational Law

Prévost, Hon. Y., LLL

Prof

## Procedure, Civil

Lemay, Judge G., LLL  
 Rivard, Judge A., LLL  
 Turgeon, H., LLL  
 Allyn, Judge R., LLL  
 Gosselin, E., LLL  
 Labrière, A., LLL  
 Dorion, Hon. N., LLL  
 Doucet, J. L., LLL  
 Letarte, P., LLL  
 Thibodeau, R., LLL  
 Demers, D., LLL  
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 Turgeon, P. P., LLL  
 Marceau, L., LLD *Paris*  
 Rivard, E., LLD  
 Grenier, R., LLL  
 Gosselin, G. H., LLL  
 Lemieux, A., LLL  
 Beauregard, F., LLL  
 Bernier, J. J., LLL  
 Fortier, T., LLL  
 Cossette, A., LLL

Prof  
 Prof  
 Prof  
 Prof  
 Prof  
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 Asst Prof.  
 Asst Prof.  
 Asst Prof.  
 Asst Prof.  
 Asst Prof.  
 Asst Prof.  
 Asst Prof.  
 Asst Prof.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.

## Roman Law

Bonenfant, J. C., BA LLL

Prof

## Taxation Law

Letourneau, R., LLL

Prof

## MEDICINE

## Anæsthesia

Hudon, F., MD  
 Jacques, A., MD  
 Flamondon, Marcel, MD  
 Deschênes, J. P., MD  
 Paradis, B., MD  
 Flamondon, M., MD  
 Allard, E., MD  
 Rinfret, L., MD  
 Duchesne, R., MD  
 Galibess, P., MD

Prof  
 Asst Prof.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Asst  
 Asst.  
 Asst  
 Asst.

## Anatomy

John, P., MD  
 Caron, W., MD  
 Lemieux, J.-M., MD  
 Laschelle, J.-L., MD  
 Turcot, J., MD  
 Rucari, G., MD *Paris*  
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 Gagnon, P., MD  
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 Marceau, G., MD  
 Lemieux, J., MD  
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 Racine, G., MD  
 Girard, G., MD  
 Chouinard, L., DSc  
 Gosselin, C., MD

Prof  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Asst  
 Asst.

## Bacteriology

Gauvreau, L., MD  
 Turcotte, H., MD  
 Côté, R., DSc

Prof.  
 Asst  
 Asst

## Biochemistry

Gingras, Rossine, MD  
 Martel, F., DSc  
 Sarrail, N. K., DSc  
 Dery, T., MD  
 Lemonde, A., DSc  
 Belleau, B., MSc *Montr.*, PhD *McG.*  
 Ghys, R., MD *Lodge*  
 Fortin, B., DSc

Prof.  
 Asst Prof.  
 Instr  
 Instr  
 Asst.  
 Asst.  
 Asst  
 Asst

## Biology

Giroux, M., MD  
 Pœvin, A. R., MD  
 Leblond, W., MD  
 Gagnon, A., BScApp

Prof.  
 Prof.  
 Prof.  
 Instr.

## Chemistry

Marcoux, H., MD  
 Berlinguet, L., DSc  
 Loiseleur, J. M., MD PhD *McG.*

Prof.  
 Prof  
 Asst.

## Demography

Parrot P., MD

Instr.

## CANADA

Dentistry		Medical History	
Hamel, J., DDent	Instr	Leblond, S., MD	Prof.
Langlois, R., DDent	Instr	Boucher, B., MD	Instr.
Dentology and Medical Economics		Medicine, Clinical	
Gauthier, C. A., MD	Prof.	Caron, S., MD	Prof.
Dermatology		Desmaules, R., MD	Prof.
Gaumont, E., MD	Prof.	Desrochers, G., MD	Prof.
Beaudry, M., MD	Asst. Prof.	John, J.-B., MD	Prof.
Grandbois, J., MD	Asst. Prof.	Laliberté, H., MD	Prof.
Therrien, R., MD	Asst.	Leblond, S., MD	Prof.
Dietetics		Lemieux, R., Hon. LL.D. Edm., MD	Prof.
Nadeau, H., MD	Prof.	Lessard, R., MD	Prof.
Electrotherapy		Nadeau, H., MD	Prof.
Lapointe, H., MD	Prof.	Paquet, B., MD	Prof.
Simson, M., MD	Prof.	Larochelle, L. N., MD	Prof.
Payer, L.-R., MD	Asst. Prof.	Maitel, A., MD	Prof.
Endocrinology		Roussseau, L., MD	Prof.
Maitel, A., MD	Prof.	Drouin, G., MD	Asst. Prof.
Gynecology		Dugal, J. P., MD	Asst. Prof.
Garant, O., MD	Prof.	Delage, J., MD	Asst. Prof.
Samard, R., MD	Prof.	Rouleau, Y., MD	Asst. Prof.
Demers, F. X., MD	Prof.	Pouliot, L., MD	Instr.
de St-Victor, J., MD	Asst. Prof.	Gareau, P. E., MD	Instr.
Reid, L., MD	Asst. Prof.	Labrec, G., MD	Instr.
Guimont, V., MD	Asst. Prof.	Moussin, F., MD	Instr.
Marchand, R., MD	Asst.	Larue, G. H., MD	Asst.
Beaulieu, B., MD	Asst.	Putry, L., MD	Asst.
Claveau, R., MD	Asst.	Richard, P., MD	Asst.
Lemieux, E., MD	Asst.	Blaiz, A., MD	Asst.
Savard, L., MD	Asst.	Dunne, R., MD	Asst.
Cauette, M., MD	Asst.	Potvin, R., MD	Asst.
St-Arnaud, G., MD	Asst.	Brunet, J., MD	Asst.
Braut, R., MD	Asst.	Grégoire, C., MD	Asst.
Duchane, P., MD	Asst.	Bertrand, G., MD	Asst.
Fortin, P. E., MD	Asst.	Samson, M., MD	Asst.
Allen, L. P., MD	Asst.	Beaudoin, J., MD	Asst.
Hygiene		Marois, A., MD	Asst.
Grégoire, J., DPH <i>Johns H.</i> , MD <i>Mont.</i>	Prof.	Pichette, R., MD	Asst.
Foley, A. R., DPH <i>Johns H.</i> , MD	Asst. Prof.	Brunet, J., MD	Asst.
Sylvester, J. B., DPH <i>Tor.</i> , MD	Asst. Prof.	Brunet, C., MD	Asst.
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Bellavance, B., MD	Asst. Prof.	Mental and Nervous Diseases	
Claveau, P., MD	Instr.	Caron, S., MD	Prof.
Gilbert, J., DPH <i>Tor.</i> , MD	Instr.	Desrochers, G., MD	Prof.
Legal Medicine		Larue, L., MD	Prof.
Desrochers, G., MD	Prof.	Gauthier, C. A., MD	Prof.
Martin, C. A., MD	Asst. Prof.	Punchard, C. A., MD	Asst. Prof.
Materia Medica		Pelletier, A., MD	Instr.
Lessard, R., MD	Prof.	Sirois, J., MD	Instr.
Claveau, P., BPharm	Asst. Prof.	Bourgoin, L., MD	Instr.
Marquis, J. C., BPharm	Instr.	Labrecque, J. E., MD	Instr.
		Nutrition	
		Babin, L.-M., BScApp	Instr.
		Ophthalmology	
		Lacerte, J., MD	Prof.
		Audet, J., MD	Asst. Prof.
		Pelletier, J. E., MD	Asst. Prof.
		Boulanger, J., MD	Instr.
		Plamondon, Marc, MD	Asst.





Buisson, F. X., MD  
 Gauthier, G. T., MD  
 Laperrère, V., MD  
 Simard, L. P., MD  
 Gravel, A. J., MD  
 Beaudet, H., MD  
 Jolicoeur, A., MD  
 Tremblay, G. W., MD  
 Tremblay, G., MD  
 Beaulieu, M., MD  
 Marcoux, G., MD  
 Reinhardt, G. H., MD  
 Labbé, P., MD

#### Therapeutics

Lessard, R., MD *Paris & Laval*  
 Delage, J. M., MD  
 Côté, R., MD

#### Urology

Bédard, A., MD  
 Goudreau, Y., MD  
 Fisher, J. G., MD  
 Coulonval, L., MD

#### Workmen's Accident Law

Leclerc, A., MD

#### THEOLOGY

Lemieux, Mgr. E., LPh DTh  
 (Ascetical T. & Liturgy) Prof.  
 Pent, Mgr. G., DDC Prof.  
 Mathieu, A., DTh Prof.

Asst.	Lacoulane, P., DTh	Asst. Prof.
Asst.	Dionne, Mgr. M., LPh LTh	Asst. Prof.
Asst.	Roy, L., LPh DTh <i>Rome</i>	Asst. Prof.
Asst.	Noël, L., DTh <i>Rome</i>	Asst. Prof.
Asst.	Beaumont, H., BPh LTh DDC <i>Rome</i>	Asst. Prof.
Asst.	Crépeault, Canon P.-E., DTh DPh <i>Rome</i>	Asst. Prof.
Asst.	Gagné, H., PhD <i>Tor.</i> , LTh	Asst. Prof.
Asst.	Vachon, Mgr. L.-A., DTh <i>Rome</i> , LPh	Asst. Prof.
Asst.	Ibrany, Mgr. F., DPh DTh	Asst. Prof.
Asst.	Roy, Y., LPh DTh <i>Rome</i>	Asst. Prof.
Asst.	Fortes, E., BTh	Asst. Prof.
Asst.	Beaudet, R., LTh LSS <i>Rome</i>	Instr.
Asst.	de Roussac, C., DPh <i>Leuven</i>	Instr.
Asst.	Morisset, B., LTh	Instr.
Asst.	Doyon, R., LTh LPh BScSoc	Instr.
Asst.	Adam, R., LTh DDC	Instr.
Asst.	Lechance, J.-M., LTh LPh LPsych <i>Mont.</i>	Instr.
Asst.	Fortin, B., BPh LTh LArchaeol <i>Rome</i>	Instr.
Asst.	Morisset, P., DTh LSS <i>Rome</i>	Instr.
Asst.	Biochu, J.-M., BA	Instr.
Asst.	Morand, L., LPh DTh <i>Rome</i>	Instr.
Asst.	De Montléon, J., LL.L. <i>Ata-Marseille</i> , L&L DPh <i>Paris</i>	Instr.
Asst.	La Flamme, R., LPh LTh	Instr.
Asst.	Manchuk, H., LTh LPh	Instr.
Asst.	Proulx, G.-E., BPh LTh LHist LGeog	Instr.
Asst.	Griffin, J. J., LTh DPh <i>Wash.</i>	Instr.
Asst.	Laherge, P., LTh LPh DSc <i>Rome</i>	Instr.
Asst.	Lessard, N. A., MScSoc	Asst.
Asst.	Lapointe, G., MScSoc	Asst.
Asst.	Richard, C., MScSoc	Asst.
Asst.	Letarte, J., MGeog	Asst.
Asst.	Ayotte, R., LScSoc	Asst.
Asst.	Robitaille, L., LTh	Asst.

### ADMINISTRATIVE AND OTHER STAFF

Chaplain: Rev. André John, LTh, M. J.  
 Drouin, LTh LPh; J. Fournier, MA LTh;  
 J. C. Racine, LTh; G. Godin, LTh DPh *Paris*;

R. Bouvet, LTh. Dir. of Health Service, P.  
 John, MD. Dir. of Univ. Press. A. M. Parent,  
 DTh DPh

### UNIVERSITY COLLEGES

**COLLÈGE UNIVERSITAIRE.** An integral part of Laval Univ. Students may be admitted after having successfully completed the first a yrs. of the *cours universitaires* in a *collège classique* and can obtain the BA after a further a yrs. in the *collège universitaire*. Because the emphasis of the BA

course here is on the sci., students can reduce the length of their origin. course by 1 yr.

**COLLÈGE F.-X. GABRIEL.** An integral part of Laval Univ. Students may be admitted after grade XI (1<sup>re</sup> mat.) A 4-yr. course leads to BA.

### AFFILIATED INSTITUTIONS

*Affiliation* or, in the case of an institution outside the provinces of Quebec and Ontario, *agrégation*, involves control by the univ. of programmes and exams. With a few exceptions, the teaching staff of these instns. are not listed by name above.

## Classical Studies

The following colls. (for boys) provide an 8-yr. course (*cours secondaire et cours universitaire*) leading to the BA of Laval Univ. —

- ACADÉMIE DE QUÉBEC, Québec (affiliated 1953)  
COLLÈGE CLASSIQUE DE THETFORD, Thetford-Mines (1958).  
COLLÈGE D'AMOS, Amos (1941).  
COLLÈGE DE JONQUÈRE, Jonquière (1956)  
COLLÈGE DE LÉVIS, Lévis (1879)  
COLLÈGE DE MARIE-MÉDIATRICE, Hull (1949)  
COLLÈGE DE MATANE, Matane (1958)  
COLLÈGE DES JÉSUITES, Québec (1930).  
COLLÈGE DE STÉ - ANNE - DE - LA - POCATIÈRE, Kamouraska (1863).  
COLLÈGE DE VICTORIAVILLE, Victoriaville (1953).  
COLLÈGE ST. - ALEXANDRE, Pointe - Gouin (1915).  
ÉCOLE APOSTOLIQUE DU SACRÉ-CŒUR, Bemport & Watertown, N.Y., U.S.A. (1944).  
INTERNAT ST.-JEAN-ÉVANGÉLISME, Québec (1938)  
INSTITUT STÉ-MARIE, St-Anasie (1956)  
MONT ST - SACHÉMENT, Valcartier (1956)  
PETIT SÉMINAIRE DE CHICOUTIMI, Chicoutimi (1877)  
PETIT SÉMINAIRE DE MONT-LAURIE, Mont-Laurier (1915).  
PETIT SÉMINAIRE DE NICOLET, Nicolet (1863).  
PETIT SÉMINAIRE DE QUÉBEC, Québec (1863).  
PETIT SÉMINAIRE DE ST.-GEORGES, Beauce (1949).  
PETIT SÉMINAIRE DE ST.-GERMAIN, Rimouski (1873).  
PETIT SÉMINAIRE ST-JOSEPH, Trois-Rivières (1863).

- SÉMINAIRE DE GASPÉ, Gaspé (1956)  
SÉMINAIRE DE HAUTE-RIE, Saguenay (1955)  
SÉMINAIRE DES PÈRES MARISTES, Sillery (1946)  
SÉMINAIRE DU SACRÉ-CŒUR, St-Victor, Beauce (1925).  
SÉMINAIRE MONTMONTAIN, Papesauville (1941).  
SÉMINAIRE ST - ALPHONSE, Ste - Anne - de - Beausé (1913).  
SÉMINAIRE ST-ANDRÉ, Trois-Rivières (1933)  
SÉMINAIRE ST - FRANÇOIS, Cap Rouge (1956).  
SÉMINAIRE ST.-VINCENT, Châteaubourg.  
SÉMINAIRE STÉ - MARIE, Shawinigan (1950)

The following colls. (for girls) provide an 8-yr. course (*cours secondaire et cours universitaire*) leading to the BA of Laval Univ. —

- COLLÈGE ANGÈLE-DE-MÉRICI, Québec (affiliated 1936)  
COLLÈGE DES UNÉLINES, Rimouski (1939).  
COLLÈGE DU BON-PASTEUR, Chicoutimi (1947)  
COLLÈGE JÉSUS-MARIE, Sillery (1924)  
COLLÈGE MARGUERITE D'YVOILLE, Hull (1945).  
COLLÈGE MARIE - DE - L'INCARNATION, Trois-Rivières (1935).  
COLLÈGE NOTRE-DAME DE BELLEVUE, Québec (1937).  
COLLÈGE NOTRE - DAME DE L'ASSOMPTION, Nicolet (1932).  
SCOLASTICAT NOTRE-DAME-DU-ROSAIRE, Hull (1940).

Nine other colls. (for girls) provide only a 4-yr. course (*cours secondaire*) leading to the matric. dipl. of Laval Univ.

## Schools of Nursing

The following hospitals in P.Q. provide a 3-yr. post-matric. course leading to the dipl. in nursing of Laval Univ. :—

- HÔPITAL DE L'ENFANT-JÉSUS, Québec (affiliated 1928).  
HÔPITAL ST.-FRANÇOIS D'ASSISE, Québec (1925)  
HÔPITAL ST-JOSEPH, Rimouski (1944).  
HÔPITAL ST-JOSEPH, Rivière-du-Loup (1924).  
HÔPITAL ST-JOSEPH, Trois-Rivières (1923).  
HÔPITAL ST. - MICHEL - ARCHAMBAULT, Québec (1924).

- HÔPITAL ST.-SACHÉMENT, Québec (1928)  
HÔPITAL STÉ-THÉRÈSE, Shawinigan (1945).  
HÔPITAL YVOILLE, Normand (1934).  
HÔTEL-DIEU, Alma (1957).  
HÔTEL-DIEU, Arthabaska (1935).  
HÔTEL-DIEU, Gaspé (1949).  
HÔTEL-DIEU, Lévis (1954).  
HÔTEL-DIEU, Québec (1933).  
HÔTEL-DIEU NOTRE-DAME, St - Georges, Beauce (1957).  
HÔTEL-DIEU ST - VALLÉE, Chicoutimi (1938).

## GENERAL INFORMATION

The Univ. was founded in 1852, under a royal charter, by the Seminary of Québec (whose own founder was the Ven. Mgr. François de Montmorency Laval, the first bishop of Québec). A general supervision of teaching and discipline is exercised by the Archbishop of Québec as visitor and chancellor apostolic and president of the conseil supérieur de bishops of the ecclesiastical province of Québec. The profs. of the facs. of theol. and philos. are nominated by the visitor,

those of other facs. by the conseil de l'université, composed of the deans of the Seminary of Québec and 3 sr. profs. of the facs. of theol., arts, law and med., and the deans of the facs. of philos., letters, sci., soc. sci., agric., for & surveying, and comm.

LIBRARIES. General, 325,000 vols.; others, 65,200 vols.

GENERAL MUSEUM. Dir : A. Jobin.

LABORATORIES: Anat., bacteriol., biochem., bot., bot., chem., for., geol., hyg., mineral, optics, pathol., phys., physiol., physio-pathol.

FACULTIES AND DEANS. *Agnes*, Prof. R. Poirier, dir.; *Rev. R. Riville* (educn.), comm.; Prof. C. Lockquell (educn.), *for. & surveying*; Prof. H. Boutin (maths.), *law*, Prof. G. Hudon (civil law); *letters*, Prof. M. Lebel (Greek), *med.*, Prof. J.-B. Jobin (clin. med.), *philos.*, Mgr. M. Dionne, *sci.*, *Sci. Engin.*, Prof. C. Geoffrion (phys.); *sci. sci.*, Prof. N. Leblanc; *theol.*, Mgr. G. Petit (Prof.). These deans are elected for a 4-yr. term and cannot be elected for more than a successive term. They are full-time.

SCHOOLS: *Educn.*, Prof. M. Barbeau, dir.; *fisheries*, Rev. P. Mercier, dir.; *geog.*, Prof. F. Grenier, dir.; *grad. studies*, Prof. J. Risi, pres.; *hist.*, Prof. M. Trudel, dir.; *household sci.*, St. Ste.-Marguerite-des-Vertus, dir.; *music*, Prof. O. Pouliot; *nursing* (16 affiliated schools), J. M. Blanchet, dir.; *pharmacy*, Prof. A. Marquis, dir.; *sci. sci.*, Prof. Simone Paré, dir.

UNIVERSITY BUILDINGS. At present, the bldgs of the univ. are in 3 different parts of Quebec. One section is located within the ancient walls of the old city. The far. of *sci.* & *engin.* is about 4 miles from the old city in a new part of Quebec, it will be moved, beginning in Sept. 1961, to the 3rd section; the new *city universitaire* (one square mile) in the outskirts of Quebec about 7 miles from the old city. It is hoped that all the univ. bldgs. will be located in this 3rd section within about 5 to 7 yrs.

#### ADMISSIONS. See Appendix III

DEGREE OF BACHELOR OF ARTS. The *baccalauréat ès arts* (BA) is awarded by the univ., the complete course leading to it being provided in private *collèges classiques* affiliated to the univ. (for a list see pp. 220-221). The course is of 8 yrs. duration, in two 4-yr. stages called *cours secondaire* and *cours universitaire*. The former (taken from about 12 to 16 yrs. of age) is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the 2nd stage is by passing the *examens d'admission* exam. set by the univ. (and thus obtaining the *matric. dipl.* of the univ.) at the end of the 4th (final) yr. of the *cours secondaire* and the 11th yr. of schooling. Students who reach a certain standard in both arts and sci. in the *cours universitaire* are awarded the BA of the univ., usually at about the age of 20. The award of the BA indicates that the student is ready to begin his professional studies in law, med. or appl. *sci.* or to enter on higher study in arts or sci.

COLLEGE UNIVERSITAIRE LAVAL (see p. 220) provides the last 2 yrs. of the *cours universitaire* for students seeking the BA with ap. mention in *sci.*

OTHER DEGREES. After the BA the student may proceed, in the univ. itself, to the following degrees in the fields indicated. *Agnes*: BSA, 4 yrs. after BA; MSc, min. of 1 yr. after BSA. Comm. BCom, 2 yrs. after BA; MScCom, 1 yr.

after BCom. *Educn.*: BPéd, 1 yr. after BA, LPéd, 2 yrs. after BPéd, DPéd, 1 yr. after LPéd, orientation—LOr, 4 yrs. after BA, DOr, min. of 1 yr. after LOr, psychol.—BPé, 1 yr. after BA or BPéd. *Engin.*: BScA, 5 yrs. after BA or grade XIII; MSc, min. of 1 yr. after BScA, DSc, min. of 2 yrs. after MSc. *Fisheries*: BScF, 4 yrs. after BA. *For. & surveying*: BScA (in surveying or in forestry), 5 yrs. after BA; MSc (in forestry), min. of 1 yr. after BScA (in forestry). *Household sci.*: BScDom, 3 yrs. after BA or 4 yrs. after *matric. dipl.* Lau. BLL, 4 yrs. after BA; LLL, 4 yrs. after BA, DJar, min. of 2 yrs. after LLL. *Letters*: LèstL, 3 yrs. after BA; MA (solely for students whose native lang. is not French), min. of 1 yr. after BA, DU, 2 yrs. after MA, DèstL, min. of 2 yrs. after dipl. of higher studies. *Med.*: MD, 5 yrs. after BA, MSc, min. of 1 yr. after MD, DSc, min. of 2 yrs. after MSc. *Music*: BMus, 3 yrs. after ap. dipl. (BA not needed); LMus, 2 yrs. after BMus. *Nursing*: BScNurs, 2 yrs. after nursing dipl. (BA not needed). *Pharmacy*: BPharm, 4 yrs. after BA; DPharm, 2 yrs. after MPharm. *Philos.*: BPh, 1 yr. after BA, MA, 1 yr. after BPh; LPh, 3 yrs. after BA, DPh, 4 yrs. after BA. *Sci.*: LSc, 3 yrs. after BA, BScA, 4 or 5 yrs. after BA or grade XIII, MSc, min. of 1 yr. after BScA; DSc, min. of 2 yrs. after MSc. *Sci. sci.*: BScSci, 1 yr. after BA, MScSci, 4 yrs. after BA, DScSci, min. of 1 yr. after MScSci; BScServSci, 1 yr. after BA, MScServSci, 3 yrs. after BA. *Theol.*: BTh, 2 yrs. after BA, LTh, 4 yrs. after BA, DTh, 1 yr. after LTh.

HONORARY DEGREES. LLD, MD, DScDom, DèstL, DGPor.

DIPLOMAS. Higher studies, min. of 1 yr. after LèstL, med. technol., 2 yrs. after ap. *matric.*, nursing, 3 yrs. after *ap. matric.*

TUITION FEES. \$200 to \$500 p.a., with an extra charge for lab. Arts, \$200, geog., hist., med. technol., music, postgrad. studies, law, letters, educn., philos., soc. sci., theol., \$350, surveying, for., sci., \$400; med., \$500.

ACADEMIC YEAR. Sept. to June: 2 terms of 15 wks. each.

RESIDENCE. Fees, \$300 p.a. Students of theol. reside at the Grand Séminary, Quebec.

Other students live with families approved by the moderator.

EXTRA-MURAL WORK. Summer course in theol., philos., French, English, Spanish, educn., Gregorian chant, Latin, natural sci., radio.

USUAL LANGUAGES OF INSTRUCTION. French.

STUDENT HEALTH SERVICE. Under a scheme begun in 1942, students must pass a med. exam at entry to first yr. and at other times if judged necessary by dir. of service. Fee: \$10 p.a. The service pays doctor's fees up to \$30 p.a. plus \$50 p.a. in the case of hospitalization.

PUBLICATIONS. *Annuaire général*, *Annual Report*, *Special Calendars* for grad. school, theol., law,

med, educ & guidance, sci, philos, soc sci., nursing, music, letters, comm., agric, soc work, for. & surveying, and summer courses *La Revue de l'Université Laval, Le Laval théologique et philosophique, Le Naturaliste canadien, L'Enseignement secondaire au Canada, Cahiers du Cercle Lavoisier, Revue des relations industrielles, Revue du service social, Le Coran* (students'

paper) *History L'Université Laval, 1852-1952* (Laval, 1952).

UNIVERSITY PRESS publishes the above calendars and reviews, the doctoral theses of Laval students, the works of Laval profs. and other works of special interest to Laval. It also sells textbooks and other books and supplies.

## THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS *Bldgs completed*: students' residence in *cité universitaire* (making 846 rooms available in the 4 bldgs.).

The fac. of agric and sch. of fisheries, which were located at Ste.-Anne-de-la-Pocatière, 50 miles N.E. of Québec, have moved to *cité universitaire*.

DEATHS M. A. Feneau (agric), Mgr W. Cannon (arts), G. M. Giroux (law), H. Gagnon (music), J. Duncan (agric).

HONORARY DEGREES LL.D.—J. D. Randall; J. Simon, P. Arrighi, D. R. Michener; R. St.-Laurent, Hon. M. Drouin, R. LeBalle, Hon. J. Lesage; Hon. Y. Prévoist, C. Stein, Mgr M. D. Miranda. MD—A. Lambling. DScDow—Eveline Leblanc. DScL—Mgr. H. J. Somers, P. Deffontaine DGFer—H. A. Sewell; E. Ménard, H. Kuffel; J. H. Jenkins, J. M. Gibson; P. M. Fox.

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	9462	3433
Women	3542	2819
Total	13,004	6252

Distribution by Faculties Agric, 152; *arts*, 5261; comm., 973; educ., 663; fisheries, 20; for., 214; household sci., 132; law, 215; letters, 407; med., 547; music, 37; nursing, 2173; philos., 127; sci., 1218; soc. sci., 247; tech. sci., 103; theol., 361; postgrad., 164. Total 13,004

Included in the figures above are —

Postgraduate students, 164

New admissions, 4547

Students from other countries, 128 (Countries from which largest numbers came: U.S.A., 57, Vietnam, 24)

DEGREES AWARDED (1960-61) Agric BScAg, 17; MScAgr, 1. Arts BA, 687; Bachelor BScApp, 1 Biol BScApp, 5. Chem BScApp, 8; MSc, 1, DSc, 3. Civ. eng. BScApp, 5. Civil eng. BScApp, 49, MSc, 1. Comm. BScCom, 154, MScCom, 157. Educ. BPéd, 367; LPéd, 25. Electr. eng. BScApp, 28, MSc, 4. Fisheries BScF, 3. For. BScApp, 27, MScFor, 3. Geol. eng. BScApp, 2. Household sci. BScDow, 23. Law LLB, 19, LL.L., 20. Letters BFAst, 16, BGo, 7, MA, 30, LSL, 18; DTSup, 3, DU, 7, DScL, 2. Mech. eng. BScApp, 16, MSc, 2. Med MD, 109. Metall. eng. BScApp, 7. Mining eng. BScApp, 3. Music BMus, 11. Pharm BPharm, 10. Philos. BPh, 21, MPh, 5; LPh, 5, DPh, 4. Physics MSc, 3, DSc, 3. Phys. eng. BScApp, 6. Sci. LScSoc, 3. Soc sci. BScSoc, 48, MScSoc, 16. Soc. work MScSoc, 22. Surveying BScApp, 10. Theol BTh, 65, LTh, 15, DTh, 2

DIPLOMAS AWARDED (1960-61) DipMetric, 1788; DipBibliothec., 8, educ., 8, letters, 27; DipMus, 264; DipNurs, 434; DipTech Med, 23, DipTh, 10

CERTIFICATES AWARDED (1960-61) Agric, 13, comm., 165, letters, 86, music, 111, nursing, 19, sci., 2, soc. sci., 73

# McGILL UNIVERSITY\*

Founded 1821

Postal Address: Montreal 2, P.Q., Canada  
Cables and Telegrams: McGill University, Montreal  
Telephone: Victor 4-6311

VISITOR—H. E. THE GOVERNOR-GENERAL OF CANADA

CHANCELLOR—R. E. POWELL, Hon. LLitt Monmouth, Hon. LL.D. Lawl, Qu. & McG.

PRINCIPAL AND VICE-CHANCELLOR—F. C. JAMES, BCom Lond., AM PhD Penn., Hon. DSc Clarkson, Hon. DSc (Econ) Lawl & Penn., Hon. DUMaur., Hon. DCL Bishop's & Kewar, Hon. LL.D. Qu., N.Y., Sask., Mount., Tor., Syd., Lond., Uruam, New Br., McMc, Burn., Pany, Comb., Alta. & Ott., Hon. LLitt Nfld., FRSCan

VICE-PRINCIPAL—D. L. THOMSON, BSc MA Aberd., PhD Camb., Hon. DSc Colby & Medd, Hon. LL.D. Aberd., Middlebury & Sask., FCIC, FRSCan

VICE-PRINCIPAL (ACADEMIC)—H. N. FIELDHOUSE, BA Oxon., MA Sheff., FRSCan

DEANS—AGRICULTURE—H. G. DEON, BSc Sask., PhD Wis. (Agric. Chem.), ARTS AND SCIENCE—P. K. HARR, BSc Lond., PhD Mon., FRMetS (Geog.), DENTISTRY—J. McCUTCHISON, MSD Mich., BA DDS; DIVINITY—S. B. FROST, BD MTh Lond., DPhil Marburg, ENGINEERING—D. L. MOSSELL, MA Camb. (Mech. Engin.), GRADUATE STUDIES AND RESEARCH—D. L. THOMSON, BSc MA Aberd., PhD Comb., Hon. DSc Colby & McMc, Hon. LL.D. Aberd., Middlebury & Sask., PCIC, FRSCan (Biochem.); LAW—F. R. SCOTT, BA Bishop's & Oxon., BLitt Oxon., Hon. LL.D. Dal. & Mount., BCL, FRSCan, MEDICINE—L. G. STEVENSON, BA MD W. Ont., PhD Johns H., MUSIC—M. DUCHOW, BA N.Y., MA Rock., MusB

SECRETARY—J. H. HOLTON, BCom Tor.

COMPTROLLER—G. GRIMSON, BCom

REGISTRAR—C. M. McDONALD, DSO, BA

LIBRARIAN—R. PENNINGTON, BA Burn., DipLib Lond.

WARDEN OF THE ROYAL VICTORIA COLLEGE (WOMEN)—MURIEL V. ROSCOE, AM PhD Radcliffe, Hon. DSc Acad., Hon. LL.D. Qu.

## INCORPORATED COLLEGES

MACDONALD COLLEGE, Ste.-Anne de Bellevue, P.Q. (tel. Glendale 3-5335), incl. Fac. of Agric., Inst. of Education and Sch. of Household Science, Vice-Principal—H. G. Dion, BSc Sask., PhD Wis.

ROYAL VICTORIA COLLEGE, Montreal (Women's Coll. of the Univ.) (tel. Victor 4-6311), Warden—Muriel V. Roscoe, AM PhD Radcliffe, Hon. DSc Acad., Hon. LL.D. Qu.

## TEACHING STAFF

[†=Part-Time]

### McGILL COLLEGE (Faculty of Arts and Science)

#### Accounting

Byrd, K. F., BSc MA Lond.  
Patton, D. R., BCom

†Assoc. Prof.

#### Anatomy (Histology, Embryology)

Leblond, C. P., MD DSc Parr., PhD Mont.

Langman, J., PhD MD  
Banfill, S. M., BA Bishop's, MD CM

Prof.  
Prof.  
Assoc. Prof.

Agriculture, see Macdonald Coll., p. 236

\* Member of the Association of Universities of the British Commonwealth

Clement, Y., BSc *Montr.*  
 Nadler, N. J., BSc MD CM PhD  
 Heller, L., MS *W'n*, MD CM  
 Sims, R. T., BSc MB BS *Leind.*,  
 MA *Camb.* Lectr.  
 Van Heyningen, Huberta E., PhD *Broun* Lectr.  
 Van Meerop, L. H. S., MD *Lay.* Lectr.  
 Workman, E. W., MD CM MSc  
 4 Demas, 1 Teaching Fellow

Assoc. Prof.  
 Asst. Prof.  
 †Lectr.

Anthropology, see Sociol.

# Architecture

Bland, J., BArch Macdonald Prof., Dir. of Sch.  
 Collins, P., MA *Manc.* Assoc. Prof.  
 Spence-Sales, H. J., BA *N.Z.* Assoc. Prof.  
 Balharris, J. W. †Asst. Prof.  
 Webber, G., BDesign *IllnessTech Inst*

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.

Wilson, S. A., BArch  
 Schreiber, J., BSc(Archit) *Glas.*  
 Lehman, J., DipTP *Leind*, MArch  
 DipTownPlan  
 Schoenmer, N., MArch  
 Wheeler, O., BA *Bishop's*  
 Toondino, G.  
 Valentine, H. A. I., BArch

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 †Lectr.  
 Sessl. Lectr.  
 †Lectr.

Art, see Fine Arts

# Bacteriology, see Medicine

# Biochemistry

Billett, K. A. C., MSc *S.A.*, PhD  
 ScD *Camb.* Prof.  
 Thomson, D. L., BSc MA *Aberd.*, PhD  
 Camb., Hon. DSc *Cuby & McM.*  
 Hon. LL.D. *Aberd.*, *Stirling* &  
*Stmk.*, FCIC, FRSCan  
 Chamey Prof.  
 Quastel, J. H., PhD *Camb.*, DSc *Lond.*  
 FRIC, FRS  
 Prof.; Dir., McGill-Montreal Gen. Hosp.  
 Res. Inst.

Asst. Prof.

Denstedt, O. F., BSc *Montr.*, PhD, FCIC Prof.  
 Scholcheld, P. G., MSc *Wales*, PhD Assoc. Prof.  
 Rubenstein, D., MD PhD Asst. Prof.  
 Hoscar, E., MSc PhD Asst. Prof.  
 Johnstone, Rose M., BSc PhD Asst. Prof.  
 Solomons, C. C., BSc PhD *Rand* Asst. Prof.  
 Douglas, D. E., MSc PhD †Lectr.  
 Haspen, Eleanor M., AB *Smith*, MD CM  
 Hon Lectr.

Asst. Prof.

Proulx, P., BSc  
 Gyenes, L., BS *Graz*, PhD  
 MacPherson, Mrs. Catherine, BSc *AdlAdl.*  
 MSc *Dal.*, PhD *Cal.* Hon. Lectr.  
 Spencer, J. H., BSc *St And.*, PhD Lectr.  
 Ward, Pamela J., BSc *StrG W'w.*, PhD Lectr.  
 Sved, S., BSc *StrG W'w.* Hon Lectr.  
 1 Res Assoc.

# Botany

Roscoe, Marcell V., AM PhD *Roschiff.*  
 Hon. DSc *Acad.*, Hon. LL.D. *Q'w.*  
 Macdonald Prof.

Gibbs, R. D., PhD *Lond.*, MSc, FLS,  
 FRSCan Prof.  
 Wilson, C. M., BSc MA *Virginia*,  
 PhD *Harv.* Assoc. Prof.  
 Boll, W. G., BSc PhD *Manc.* Asst. Prof.  
 Maycock, P. F., BA *Q'w.*, MSc PhD *W'n.*  
 Whistler, H. C., PhD *Calif.* Asst. Prof.  
 Whitney, N. J., BSc *Alta.*, MSc *W' Ont.*,  
 PhD *Tor.* Asst. Prof.  
 1 Demr. Lectr.

# Chemistry, see also Engineering, Chemical

Purves, C. B., BSc PhD *St And.*,  
 Hon. DSc *Lawrence*, FRSCan  
 (Indus. & Cellulose Chem.) Eddy Prof.  
 Winsler, C. A., OBE, MSc *Montr.*,  
 DPhil *Oxon.*, PhD, FCIC, FRSCan  
 Otto Manns Prof.  
 Yaffe, L., MSc *Montr.*, PhD Macdonald Prof.  
 Mennue, J. H., BSc *Oxon.*, MA *Br.Col.*,  
 PhD Assoc. Prof.  
 Nicholls, R. V. V., MSc PhD, FCIC  
 Touraine, A., DrChem *Roya* Assoc. Prof.  
 Ross, A. S., BA *W' Ont.*, AM *Oberlin*, PhD  
 Assoc. Prof.  
 Holcomb, R. K., BSA PhD Assoc. Prof.  
 Schiff, H. L., MA PhD *Tor.* Assoc. Prof.  
 Edward, J. T., DPhil *Oxon.*, BSc PhD  
 Assoc. Prof.  
 Sehon, A., MSc PhD *Montr.* Asst. Prof.  
 Onyszchuk, M., MSc *W' Ont.*, BSc PhD  
 Asst. Prof.  
 Robertson, R. F., BA *Br.Col.*, PhD  
 Just, G., IngChem *S.T.H. Zurich*,  
 PhD *W' Ont.* Asst. Prof.  
 Shestak, K. A., BEng *Sask.*, MSc *Dal.*,  
 PhD *Tor.* Asst. Prof.  
 Cave-Brown-Cave, G., MA *Br.Col.*,  
 PhD *M.I.T.* Asst. Prof.  
 7 Demrs

# Classics

Counsell, R. M., MBE, MA *Oxon.* Assoc. Prof.  
 McCullagh, P. F., BA *Tor.*, PhD *Chic.*, MA  
 Assoc. Prof.  
 Gordon, C. D., BA *Alta.*, MA PhD *Mich.*  
 Assoc. Prof.  
 Garstang, J. B. E., MA *Oxon.* Lectr.  
 Schachter, A., BA Lectr.  
 Spence, E. Marie, BA *Alta.*,  
 PhD *Bryn Mawr* Lectr.  
 Snider, G. L., AB *Boston*, AM *Harv.*,  
 PhD Lectr.  
 Woloch, G. M., BA *Yale & Oxon.* Lectr.

# Commerce

Woods, H. D., BA *New Brn.*, MA  
 (Indus. Reins.) Brantman Prof.; Di,  
 Indus. Reins. Centre  
 Armstrong, D. E., BA BCom *Alta.*  
 Prof., Dir. of Sch.

Braut, P. C., BCom  
 Pugsley, W. H., BCom  
 Marshall, A. R., BCom *Dist*  
 Willis, R. S., LL.D. *Montreal*, BCL  
 Boue, R. S., BCom, CA  
 13 Dents

**Dentistry**

Johnston, W. J., DDS  
 Gervie, J. W., BA DDS *Alta*, MD CM  
 McCutcheon, J., MSD *Mich.*, BA DDS  
 Rogers, M. A., BA *Bishop's*, DDS  
 Racey, A. G., D.D.S., FACD  
 Walford, W. F., DDS  
 McMahon, R. E., DDS  
 Ambrose, E. R., DDS  
 Dagg, R. E., DDS  
 Guilboud, T. I., BA *Loyola (Montreal)*,  
 DDS  
 Francis, L. E., DDS  
 Marchand, P. R., DDS  
 Boyles, W. H., DDS  
 Girard, P. J., DDS  
 Henry, D. W., BA *Bishop's*, DDS  
 Rosen, H., BSc DDS  
 Pauth, R. W., BA DDS  
 Sykora, O. P., BA *SirG Wms.*, MA  
 PhD *Mont.*, DDS  
 Weinlander, G. H. G., DKFM *Vienne*,  
 DDS  
 McCarthy, J. J., BSc *SirG X*, DDS  
 Lamb, R. T., BSc DDS  
 Armstrong, G. D., DDS  
 Cameron, A. F., DDS  
 Cleveland, E. T., DDS  
 Cella, A. J., DDS  
 Dorian, E. S., BA *Ont.*, DDS  
 Dundas, R. P., MDent *Mich.*, DDS  
 Edmison, R. S., BCom *Que.*, DDS  
 Freedman, S. O., BSc MD CM  
 Gill, L. A., BA DDS  
 Harvey, R. F., DDS  
 Hebert, M., BA *Loyola (Montreal)*, DDS  
 Houghton, V.  
 Mills, E. P., DDS  
 Richardson, A. D., DDS  
 Rosen, L. J., DDS  
 Shegal, D. T., DDS  
 Stalker, A., BA BCL  
 Stewart, J. D., BSc DDS  
 Stockwell, W. G., DDS  
 Wiener, R. M., MS *Que.*, DDS  
 Elo, J., BSc *SirG Wms.*, DDS  
 Chaurand, J. M., DDS  
 Kovari, W., BA DDS  
 Solomon, C. M., BA DDS  
 Swinton, W., DDS  
 30 Dents

**Divinity**

Post, S. B., BD *MT's Lond.*, DPhil *Marburg*

Joy, E. G., MA *Leeds*, PhD *Lond*

Assoc. Prof.  
 Assoc. Prof.  
 Asst. Prof.  
 Lectr.  
 Lectr.

Johnston, G., MA BD Hon. DD *Glas.*,  
 PhD *Cambr.*  
 Smith, W. C., BA *Tor.*, PhD *Prin*  
 (Compur. Relig.) *Burks Prof.*  
 Walsh, H. H., MA *K.C.N.S.*, BD *Gen.*  
 Synod., STM *General Theol. Sem.*, PhD  
 Col (Church Hist.) *Prof.*  
 McLelland, J. C., BA *McM.*, MA *Tor.*,  
 BD *Knowl(Tor.)*, PhD *Edin* *Assoc. Prof.*  
 Boorman, J. A., BA *Alta*, MA PhD *Cal*  
 Evans, D. D., BA *Tw*, BPhil *Oxon*,  
 BD *Asst. Prof.*  
 Watson, G., MA *Asst. Prof.*  
 Kirby, J. C., STB *General Theol Sem*,  
 BA STM *Lectr*  
 Oatoby, W. G., AB *Calif* *Lectr.*

**Economics and Political Science**

Beach, E. F., BA *Que.*, AM PhD *Harv.*  
 James, P. C., BCom *Lond.*, AM PhD  
*Penn.*, Hon. DSc *Clarkson*, Hon  
 DUMont., Hon DCL *Bishop's*, Hon  
 LLD *Que.*, N.Y., *Sask.*, *Mont.*, *Tor.*,  
*Syr.*, *Lond.*, *Urmur.*, *New Br.*, *Mich.*,  
*Burn.*, *Paup.*, *Canad.* & *Alta*, FRSCan  
 (Pol Econ) *Prof.*, Principal & Vice-  
 Chancellor of Univ.  
 Wright, D. M., LLB *Virginia*, MA  
 PhD *Harv.* *William Dow Prof.*  
 Mallory, J. R., BA *Nes Br.*, MA *Dal*,  
 LLB *Edin* (Pol. Sci) *Prof.*  
 Supple, B. E., BSc *Lond.*, PhD *Cambr.*  
 Brecher, I., PhD *Harv.*, BA *Assoc. Prof.*  
 Culliton, J. T., BA *Sask.*, MA *Assoc. Prof.*  
 Weldon, J. C., BA PhD *Assoc. Prof.*  
 Brecher, M., BA PhD *Yale* *Assoc. Prof.*  
 Franklin, S., MA *Assoc. Prof.*  
 Ostry, M.S. *Sybra*, MA PhD *Asst. Prof.*  
 Olvet, M., BA PhD *Asst. Prof.*  
 Anagnostopoulos, A., PhD *Cambr.*, MA *Asst. Prof.*  
 Taylor, C. M., BA *Oxon* & *McG* *Asst. Prof.*  
 Russell, T. M., BSc *Lond.*, MA *Tor.* *Lectr*  
 Levitt, M.A. K., BSc *Lond.*, MA *Tor.* *Lectr*  
 Plunkett, T., BA *SirG Wms.*, MA *Sessl. Lectr.*  
 Qureshi, S. M. M., MA *Agos*, LLB *Lond*,  
 PhD *Penn.* *Sessl. Lectr.*  
 Steinberg, Mrs. Niema, MA *Corn*, PhD  
 2 Asst

**Education, see also MacDonald Coll, p. 237**

Monroe, D. C., MA *Prof.*; Dir., Inst. of Educn.  
 ..... *Macdonald Prof*  
 Currie, A. B., BCom *Que*, MA *Med Alta*,  
 PhD *Lond* *Assoc. Prof.*  
 Wood, Winona, BA *Bed Sask.*, MA *Cal*,  
 Dipl *McG.Sch of Phys Educn.* *Asst. Prof.*  
 Wilkinson, R. E., MA *Cal*, BSc *Asst. Prof*

**Embryology, see Anat.**

## Engineering, see below

## English Language and Literature

- Walker, R. S., MA *Camb & Aberd*, Molson Prof  
 Files, H. G., AM PhD *Harv*, Greenshields Prof.  
 Hemlow, Joyce, MA *Qu*, AM PhD *Harv*, Prof.  
 MacLennan, H., BA *Dal*, MA *Oxon*, AM  
 PhD *Prin*, DLitt *W Oxon*, Hon LLD  
 Sark, FRSCan, †Assoc Prof  
 Lucas, A., MA *Qu*, AM PhD *Harv*, Assoc Prof  
 Malloch, A. E., MA *Tor*, Assoc Prof  
 Beresford-Howe, Constance, PhD *Brown*,  
 MA, Asst. Prof  
 Duder, L., MA *Col*, BA, Asst. Prof  
 Slough, G. F., MA *Aberd*, BLitt *Oxon*,  
 Asst. Prof.  
 Kluna, S., MA PhD *Yale*, Asst. Prof.  
 Cecil, C. D., BA *Dartmouth*, MA *Oxon*,  
 Asst. Prof.  
 Pulvel, M., MA PhD *Harv*, Asst. Prof.  
 Heuser, E. A., PhD *Harv*, BSc MA, Asst. Prof.  
 Massey, I., AM *Col*, PhD *Harv*, BA, Asst. Prof.  
 Sgrove, H., BA *Dal*, Lectr.  
 Booth, W. T., BA, Lectr.  
 Farnogh, F. M., BA *Calif*, MFA *Yale*, Lectr.  
 Wallace, D., BA, Lectr.  
 Frye, D. C., MA *N Y*, PhD *Wtr*, Lectr.  
 Heppner, C. A. E., BA *Oxon*, PhD *Tor*,  
 MA, Lectr.  
 Roberson, B., BA *Mont*, MA *Col*,  
 PhD *Prin*, Lectr.  
 Rutland, R. B., BA *Tor*, MA *Lond*, Lectr.  
 Finlayson, J., MA *Aberd*, Lectr.  
 Hartley, A. J., BA *W Oxon*, MA *Tor*, Lectr.  
 Eskine, Mrs. Rosemary, MA, Lectr.  
 Stacy, P. H., BA *Cal*, MA *Corn*, Lectr.  
 Mathewson, G., BA *Harv*, BLitt *Oxon*, Lectr.  
 Meir, C., MA *Dub*, Lectr.  
 Syme, Mrs. Mathilde, †Lectr.  
 Steele, J., MA *Tor*, Lectr.  
 Berlin, N., BA *N Y*, MA *Cal*, PhD *Calif*, Lectr.  
 Borwick, I., BA *New Hampshire*, MA *Chic*,  
 PhD *Tor*, Lectr.  
 Campbell, J. G., AB *Harv*, AM *Col*, Lectr.

## Fine Arts

- Judkows, W. O., AM PhD *Harv*, Assoc. Prof.  
 Galvazis, G., BA *Athens*, MFA PhD *Prin*,  
 Asst. Prof.  
 Carter, R., AB *Cal*, MFA *Prin*, Asst. Prof.  
 Landslay, P., †Lectr.

## French, see Romance Langs.

## Genetics

- Boyes, J. W., MSc *Sark*, PhD *Wtr*,  
 John & Anne Molson Prof.  
 Fraser, F. C., BSc *Acad*, MD CM MSc, Prof.  
 Boothroyd, E. R., BSc *Bishop's*, MSc PhD,  
 Assoc. Prof.  
 Grant, W. F., MA *McM*, PhD *Virginia*,  
 Asst. Prof.

- Naylor, A. F., AB PhD *Chic*, Asst. Prof.  
 Metrakos, J. D., MSc PhD,  
 Asst. Prof., Res. Fellow  
 Kafar-Boothroyd, Etta, DPhil *Zur*, Lectr.

## Geography

- Haze, F. K., BSc *Lond*, PhD *Mont*,  
 FRMetS Prof., Dir. of Geog. Summer Sch.  
 Lloyd, T., MA *Dartmouth*, PhD *Clark*,  
 DSc *Brist*, Prof.  
 Bad, J. B., MA *Camb*, Prof.  
 Muller, F. B., PhD *Zur*, Assoc. Prof.  
 Hills, T. L., MA *Camb*, Assoc. Prof.  
 Drummond, R. N., MSc, Asst. Prof.  
 Machoz, G. H., BA *Tor*, Asst. Prof.  
 Parry, J. T., BA *Oxon*, MSc *Lev*, Asst. Prof.  
 Jacobson, G., BSc *Victoria*, †Hon Lectr.  
 Brown, Joyce C., MSc *Lond*, Lectr.  
 Jones, F. C., BSc *Glas*, Lectr.  
 Robertson, O. C. S., Hon Lectr.  
 3 Res. Assoc.

## Geological Sciences

- Clark, T. H., AM PhD *Harv*, FGSA,  
 FRSCan (Paleontol.) Logan Prof.  
 Gdl, J. E., PhD *Prin*, BSc, FRSCan,  
 Dawson Prof.  
 Kranck, E. H., DSc *Helvetic*, Prof.  
 Stevenson, J. S., BA BASS *Br Col*,  
 PhD *M I T*, FGSA, FRSCan, Prof.  
 Stearn, C. W., BSc *McM*, MS PhD *Yale*,  
 Assoc. Prof., Asst. Deem, Grad. Fac.  
 Snell, V. A., DSc *M I T*, BSc, Assoc. Prof.  
 Elson, J. A., BSc *W Oxon*, MSc *McM*,  
 PhD *Yale*, Asst. Prof.  
 Frueh, A. J., SM PhD *M I T*, Asst. Prof.  
 Webber, G. R., BSc *Qu*, MSc *McM*,  
 PhD *M I T*, Asst. Prof.  
 Clark, L. A., MSc *Sark*, PhD, Asst. Prof.  
 Eskine, P. R., MSc PhD, Asst. Prof.  
 Reed, J. C., BSc *Penn*, PhD *Prin*,  
 DSc *Alaska*, Hon Lectr.

## German

- Renn, H. S., BA *Dub*, PhD *Lond*, Prof.  
 Mayer, Bertha, MA, Assoc. Prof.  
 Latynowicz, V. N., MPH *Warren*,  
 DLitt *Russ*, Asst. Prof.  
 Bloch, V., PhD *Corn*, MA, Asst. Prof.  
 Arnold, A., DLitt *Prin*, Asst. Prof.  
 Bauer, Mrs. Ludmilla, MA *Mont*, Lectr.  
 Pavliska, Mrs. Irene, MA *Mont*, Senal Lectr.  
 Westwood, J. N., BCom *Burn*, MA *Mont*,  
 Lectr.

## 1 Res. Assoc.

## Graduate Studies and Research, see below

## Greek, see Classics

## Histology, see Anat.



- History, see also Div.**
- Pelchovatz, H. N., BA *Osw.*, MA *Steff.*, Prof.  
 ERSCAN Kingsford  
 Bayley, C. C., MA *Manc.*, PhD *Clar.*, Prof.  
 Cooper, J. I., MA *W. Ont.*, PhD Assoc. Prof.  
 Read, W. S., ThM *Westminster (Pa.)*, Assoc. Prof.  
 PhD *Penn.*, MA  
 Mladenovic, M., BCom ML *Belgrade*, D.L.,  
 DScSciPol DScSciEcon DipsSciHautes  
 EtudesSec Paris Assoc. Prof.  
 Zagorin, P., AB *Clar.*, MA PhD *Harv.*  
 Vogel, R., BA *SirG.Wms.*, MA Assoc. Prof.  
 Chartens, Jonn N., MA Asst. Prof.  
 Lectr.
- Household Science, see Macdonald Coll.,**  
 p. 237
- Islamic Studies**
- Smith, W. C., BA *Tor.*, PhD *Pym.*  
 Baka Prof., Dir. of Inst.  
 Rahman, F., MA *Pang.*, DPhil *Osw.* Assoc. Prof.  
 Berkes, N., LésL *Istanbul*, Doctent *Ankara* Assoc. Prof.  
 Rasida, M., LésL *Fuad I.*, DUParis Assoc. Prof.  
 Adams, C. J., AB *Baylor*, PhD *Chic.* Asst. Prof.  
 Williams, J. A., BA *Arkansas*, MA  
 PhD *Pym.* Asst. Prof.
- Italian, see Romance Langs.**
- Latin, see Classics**
- Law, see below**
- Library Science, see below**
- Logic, see Philos.**
- Mathematics**
- Rosenthal, E., PhD *Cal. Tech.*, MSc Prof.  
 Tate, H., BSc *N.U.I.*, MA *Dub.* Prof.  
 Fox, C., MA *Cambr.*, DSc *Land.* Prof.  
 Wallace, P. R., MA PhD *Tor.* Prof.  
 Schwerdtfeger, H. W. E., DrPhil *Bonn*,  
 MA *Méib.* Prof.  
 Solin, C. D., PhD *Tor.*, MA  
 Prof.; Asst. Deem, Fac. of Arts & Sci.  
 Guttmann, I. P., MA PhD *Tor.*, BSc Assoc. Prof.  
 Evans, A., MSc *Wales*, PhD *Cambr.* Assoc. Prof.  
 Kaufman, H., MSc PhD Assoc. Prof.  
 Lambek, J., MSc PhD Assoc. Prof.  
 Morris, T. F., MA PhD *Tor.* Assoc. Prof.  
 Sharp, R. T., MSc Assoc. Prof.  
 Rattay, B., PhD *Pym.*, MSc Assoc. Prof.  
 Fendley, G. D., BSc *Glas.*, BA *Cambr.*  
 Assoc. Prof.  
 Melzak, Z. A., PhD *M.I.T.*, MSc Assoc. Prof.  
 Margolis, B., PhD *M.I.T.*, MSc Assoc. Prof.  
 Buch, G. G., BSc *Alta.*, MSc *Birm.*,  
 PhD Assoc. Prof.  
 Melamed, S., BSc Assoc. Prof.
- Thorpe, W. D., MA *Cambr.* Asst. Prof.  
 Harechora, M., BA Assoc. Prof.  
 Kahana, S., MSc *Mount.*, PhD *Edin.* Asst. Prof.  
 Sussman, D., MA Assoc. Prof.  
 Aggarwala, B. D., BA PhD *Pang.* Asst. Prof.  
 Cavadian, G., BSc *Athens*, MSc Asst. Prof.  
 Patel, G. P., MSc *Panna*, PhD *Mash.* Asst. Prof.  
 Shtein, I. H., BSc *StrG Wms.*, MA *N.Y.* Asst. Prof.  
 Griffiths, I. F., BA *Wales* Lectr.  
 Goldrich, A. I., BA *Mount.* Lectr.  
 Kingsbury, D. M., BSc Lectr.  
 Shupe, J. F., MSc *Dal.* Lectr.  
 Schwerdtfeger, Mrs. Hanna Lectr.  
 Ratsey, L. F. S., BA *Mt. All.*, MA *Harv.*,  
 PhD *Clar.* Sp. Lectr.  
 Turtlebaum, A. D., BSc Lectr.  
 Ross, H. L., BA Lectr.  
 Boryan, D. A., BA *Bukap's* Lectr.  
 Connell, I. G., MSc *Mount.* Lectr.  
 Costler, C. G., BA *Frick*, MA PhD *Ill.* Lectr.  
 Riehm, C., BSc *Tor.* Lectr.  
 Henniger, J. P., BSc Lectr.  
 Poland, J., BSc Lectr.  
 Miller, H. G., BSc *Sir M. Coll. Tor.* Lectr.  
 Namani, H., BSc *Tokran* Lectr.  
 Baron, S., MSc *Rensselaer*, BA Lectr.  
 Hardy, K., BSc *Leic.* Lectr.  
 Held, A. E., BSc Lectr.  
 MacNeill, I. B., BEd BA *Sask.* Lectr.  
 9 *Dennis*, 1 Res Assoc.
- Medicine, see below**
- Metallurgy, see Engineering, below**
- Meteorology**
- Marshall, J. S., MA *Qu.*, PhD *Cambr.* Prof.  
 Hirschfeld, W. F., BSc *Tor.*, PhD Prof.  
 Douglas, R. H., BSc *Alta.*, MA *Tor.*,  
 PhD Assoc. Prof.  
 Oavig, S., BSc *Oyo*, MSc PhD Assoc. Prof.  
 Bouville, B., BA *Tor.*, MSc PhD Assoc. Prof.  
 Kwiat, M., MA *Sask. & Tor.* Sp. Lectr.
- Mining, see Engineering, below**
- Music**
- Dachow, M., BA *N.Y.*, MA *Rock.*, MusB Prof.  
 Brott, A., LMus Assoc. Prof.  
 Blume, H., MusB *Bolngrad*, Music Assoc. Prof.  
 Anhalt, I. Asst. Prof.  
 11 Instrs.
- Nursing, see School for Graduate Nurses,**  
 below
- Palaeontology, see Geol. Scis.**
- Parasitology, see Macdonald Coll., Inst. of**  
 Parasitol., p. 238
- Philosophy**
- Henderson, T. G., PhD *Harv.*, MA Prof.  
 Klibansky, R., MA *Osw.*, DPhil *Heidel.*  
 (Logic & Metaphysics) Prothingham Prof.

Miller, J. W., AB *Mich.*, PhD *Harv.*  
 Macdonald Prof.  
 Currie, C., PhD *Harv.*, MA Assoc. Prof.  
 McKinnon, A. T., MA *Tor.*, PhD *Edin.*  
 Assoc. Prof.  
 McCall, R. S., BPhil *Oxon.*, BA Asst. Prof.  
 Ross, J. D., BA Asst. Prof.  
 Gombay, A., BPhil *Oxon.*, MA Lectr.  
 Nemuroff, S., BSc MA Lectr.

## Physical Education, see below

## Physics

Marshall, J. S., MA *Que.*, PhD *Cambr.*  
 Macdonald Prof.  
 Wootton, G. A., MA *W Ont.*, FRSCan  
 Macdonald Prof., Dir. of Electronics  
 Res. Lab.  
 Pounder, E. R., BSc PhD Prof.  
 Bell, R. E., MA *Br Col.*, PhD  
 Rutherford Prof., Dir. of Radiation Lab.  
 Gann, K. L. S., BA *W Ont.*, MSc PhD  
 Assoc. Prof.  
 McPherson, Anna L., PhD *Chic.*, BA  
 MSc Assoc. Prof.  
 Martin, W. M., BSc *Que.*, PhD Assoc. Prof.  
 Terroux, F. R., BA *Loyola*, PhD *Cambr.*,  
 MSc Assoc. Prof.  
 Matheson, J. F., BA *Sask.*, PhD Asst. Prof.  
 Stensbury, E. J., MA PhD *Tor.* Asst. Prof.  
 Stevenson, D. R., BSc *Tor.*, MSc *Mich.*,  
 ScD *M I T.* Asst. Prof.  
 Cartluthers, J. A., MA *W Ont.*, PhD Asst. Prof.  
 Langbein, M. P., MSc PhD Asst. Prof.  
 Kavanagh, T. M., MA *Sask.*, PhD Lectr.  
 Fry, D. J. I., BSc *Brat.* Lectr.  
 Leck, W. T., BEng *Sask.*, MSc *Bism.* Lectr.  
 Moore, R. B., BEng MSc Lectr.  
 Vanier, J., BSc *Maurit.*, MSc Lectr.  
 3 Demes., 4 Res. Assoc.

## Physiology

Macintosh, F. C., MA *Dal.*, PhD Duke Prof.  
 Burns, B. D., BA *Cambr.* Prof.  
 Terroux, Mrs. Kathleen G., BA MSc  
 PhD Assoc. Prof.  
 Jones, G. M., MA MB *BChu Cambr.*  
 Assoc. Prof.  
 Dworshin, S., MSc DDS MD CM Asst. Prof.  
 Sekel, P., BE *Dr Elect Phys T.H. Karlsruhe* Asst. Prof.  
 Grafein, Bernice, BA *Tor.*, PhD Asst. Prof.  
 Berks, R. L., BA MSc PhD Asst. Prof.  
 Bess, J. Q., BA MD *Tor.* Asst. Prof.  
 Remington, E. J., MSc III, PhD *Ohio* Asst. Prof.  
 Pinsky, C., BSc *Sar G Wm.*, MSc Asst. Prof.  
 Solandt, O., MA MD *Tor.* Lectr.  
 2 Demes.

## Physiotherapy, see Physical and Occupational Therapy, below

## Political Science, see Econ. and Pol. Sci.

## Psychology, see also Medicine, below

Hebb, D. O., BA *Dal.*, PhD *Harv.*, MA Prof.  
 Ferguson, G. A., BA *Dal.*, BEd PhD *Edin.* Prof.  
 Webster, E. C., MA PhD Prof.  
 Bindra, D., BA *Pang.*, MA PhD *Harv.* Assoc. Prof.  
 Lambert, W. E., MA PhD *N Carolina* Assoc. Prof.  
 Poser, E. G., MA *Que.*, PhD *Lond.* Assoc. Prof.  
 Milner, P. M., BSc *Leeds*, MSc PhD Assoc. Prof.  
 Rabinovitch, S., PhD *Indiana*, MA Asst. Prof.  
 Douglas, Mrs. Virginia, BA *Que.*, MA  
 MSW PhD *Mich.* Asst. Prof.  
 Stern, Mrs. Murray, MSc Asst. Prof.  
 Anderson, C., BEd *Sask.*, MSc Asst. Prof.  
 Wigdor, Mrs. Blossom, MA *Tor.*, BA  
 PhD Lectr.  
 Dufresne, G., MA PhD *Mont.* Lectr.  
 Rowe, Patricia, BA *Tor.*, MA *Dal.* Sess. Lectr.  
 Vanderwolf, C. H., BA *Alta.*, MSc Sp. Lectr.  
 4 Demes., 4 Res. Assoc.

## Romance Languages

Launay, J. E. L., L&L Dupl'd'ÉtSup *Paris*  
 (French) Prof.  
 d'Andrea, A., PhD *Pisa* (Italian) Assoc. Prof.  
 Harrop, L. B., MA *Interamericana (Mexico)*,  
 DipEd *W Aust.*, DipEd *Hispan. Santander*,  
 BA (Spanish) Assoc. Prof.  
 Larivière, Mrs. Hélène, L&L  
 Dupl'd'ÉtSup *Paris* Assoc. Prof.  
 Reverchon, Marie-Thérèse, L&L  
 Dupl'd'ÉtSup *Paris* Assoc. Prof.  
 Henry, Mrs. Robina E., MA *Dub.* Assoc. Prof.  
 Rignault, A. A., L&L Dupl'd'ÉtSup *Paris*  
 (French) Assoc. Prof., Dir. of French  
 Summer Sch.  
 Champigneulle, Yvonne, L&L  
 Dupl'd'ÉtSup *Toulouse* Asst. Prof.  
 Renner, T., L&L&Pol&Soc *Lausanne* Asst. Prof.  
 Stogen, G. P., BA *Sar G Wm.*  
 MA *Middlebury* (Spanish) Asst. Prof.  
 Harvey, Mrs. Monica, DPhil&Lat *Madrid*,  
 BA Asst. Prof.  
 Rabotin, M., L&L *Paris* Asst. Prof.  
 Jackson, G. D., BA *Mont.*, MA *Tor.* Lectr.  
 Jones, H. C., BA *Paris*, DU *Toulouse* Lectr.  
 Deschamps, Nicole, BA L&L *Leval*,  
 DU *Paris* Lectr.  
 Fervault, M. A., Thérèse, B&L *Paris*, BPh  
 LPh MA *Mont.* Lectr.  
 Betancos-Santos, Mrs. Janet, BA Lectr.  
 Doremlot, F. E., L&L *Paris*, MA *Cinc.* Lectr.  
 Menzies, G. G., B&L *Paris*, BA *Leval*,  
 MA Lectr.  
 Stevenson, Julie C., MA *Glas* Lectr.  
 Ugalde-Cuevas, V., BA *Valladolid*,  
 PhD *Madrid* Lectr.

## Social Work, see below

## CANADA

**Sociology and Anthropology**

Westley, W., PhD <i>Chc</i> , MA	Prof
Ross, Aileen D., BSc(Econ) <i>Lond</i> , MA	Asst Prof
PhD <i>Chc</i> .	Asst Prof
Fried, J., AB <i>Temple</i> , PhD <i>Yale</i>	Asst Prof
Solomon, D. N., MA PhD <i>Chc</i> .	Asst Prof
Yatsushiro, T., BA <i>Redlands</i> , PhD <i>Calif</i>	Asst Prof
Roseborough, H., MA <i>Tor</i> , PhD <i>Harv</i>	Asst Prof
Breton, R., BA <i>Mont</i> , MA <i>Chc</i> ,	Asst Prof
PhD <i>Johns H</i>	Asst Prof
Cohen, R., BA <i>Tor</i> , PhD <i>Wis</i>	Asst Prof
Lamb, Mrs Sylvus, BA <i>StrG Wisc</i>	†Lectr

Spanish, see Romance Langs.

Zoology, see also Macdonald Coll., Inst. of Parasitol, p 238

Stanley, J., BA <i>Br Col</i> , MA PhD <i>Mow</i>	Prof.
Betrill, N. J., BSc <i>Brist</i> , PhD DSc <i>Lond</i> ,	FRSCan, FRB
Dunbar, M., MA <i>Oxon</i> , PhD, FRSCan	Prof.
Marsden, Mix. Joan C., PhD <i>Calif</i> , MSc	Asst Prof
Gibson, M. A., MSc <i>Acad.</i> , PhD	Asst. Prof.
Cameron, A. W., BA <i>Acad</i> , MSc <i>Can.</i> ,	PhD
Steele, Mrs V. Julia, MSc	Seasl Lectr
Aimer, Valerie M., BSc <i>Burw</i> , PhD <i>Mchd</i>	Lectr

**ENGINEERING**

Architecture, see above

Chemical Engineering, see also Chem., above

Phillips, J. B., MBE, MSc PhD, FCIC	Prof
Douglas, W. J. M., BSc <i>Que</i> , MSc PhD <i>Mch</i>	Asst. Prof.
Shelstad, K. A., BEng <i>Sask</i> , MSc <i>Dal.</i> ,	PhD <i>Tor</i> .
† Demr.	Asst. Prof.

**Civil Engineering and Applied Mechanics**

McCutcheon, J. O., MEng	Prof
de Stan, J. L., BEng <i>Sask</i> , MEng	Prof
Arend, L. J., BSc MEng	Assoc. Prof.
Pakizmas, A., DiplCEng <i>T U Berlin</i> ,	DEngSc <i>Letua</i>
Wilson, V. W. G., SM <i>M.I.T.</i> , BSc	Assoc Prof
Jelvy, G. W., BA <i>Loyola</i> , MEng	Assoc Prof
Neilson, S. A., BSc	Assoc. Prof.
Harris, P. J., BSc <i>Mont</i> , MEng	Assoc. Prof.
Matheson, W., BSc <i>Glas</i>	Asst. Prof.
Selby, D. A., BEng	Asst. Prof.
Yong, R., BA <i>Washington &amp; Jefferson</i> ,	Soll(CivilEng) <i>M.I.T.</i> , MSc(CE)
Prodr.	Asst Prof.
Gerasovitz, B., BSc MEng	Asst Prof
Ahmed, S., BSc <i>McLagan Coll.</i>	Asst Prof

Peaks, W. T., MCD <i>Lev.</i> , BEng	Lectr
Adjuless, J., SM <i>M.I.T.</i> , BEng	†Lectr
Taylor, L. O., BSc <i>New Br</i> , MEng	Lectr

**Electrical Engineering**

d'Ombros, G. L., BSc(Eng) PhD <i>Lond</i> .	Macdonald Prof.
Maham, J. H., BSc <i>Lond.</i> , ScD <i>M.I.T.</i>	Abitibi Prof.
Howes, F. S., DIC, PhD <i>Lond</i> , MSc	Prof.
Schuppel, W. H., BSc MEng	Assoc. Prof.
Pavlasck, T. J. F., MEng PhD	Assoc Prof
Parnell, G. W., BAsc <i>Tor.</i> , SM <i>M.I.T.</i>	Assoc Prof
Barton, T. H., BEng PhD <i>Sheff</i>	Assoc Prof
Comse, R. P., Dupleng <i>E.T.H. Zurich</i>	Assoc Prof
Adler, E. L., BSc <i>Lond</i> , MAsc <i>Tor</i>	Asst Prof
Bradley, C. W., BEng	Lectr
Howarth, B. A., BEng	Lectr
Malowany, A., BEng	Lectr
Schwartz, H. H., BEng	Lectr
Lee, H. C., BSc <i>Mont</i>	Lectr
Nekun, I. M., BEng	Lectr
Ruman, N., BEng MSc	†Lectr
Salveste, P., BSc <i>Carnegie Tech</i> ,	MAsc <i>Tor.</i>
8 Demrs	Lectr

Mathematics, see above

**Mechanical Engineering**

Mordell, D. L., MA <i>Camh</i> .	Prof.
Bruce, W., MAsc <i>Tor</i> .	Prof.
Newman, B. G., MA <i>Camh</i> , PhD <i>Syd</i> .	Canadian Prof
Bull, G. V., MSc PhD <i>Tor</i> .	Prof
Edis, A. R., BSc <i>Lond</i> , BEng	Assoc. Prof.
Stachewicz, J. W., MEng	Assoc Prof
Cheins, J. C., Dupleng <i>E.T.H. Zurich</i>	Assoc Prof
Cova, P. V., BEng	Assoc Prof
Thompson, A. L., BA <i>Bishop's</i> , PhD	Assoc. Prof
Wu, J. H. T., BSc <i>Tsing Hua</i> , MAsc <i>Tor</i> .	Assoc Prof
Ford, J. M., BEng	Asst. Prof.
Glynn, B. C. C.	Asst. Prof.
McKay, A. R., BEng	Asst. Prof.
Hyder, S. S., BS <i>Alig</i> .	Asst Prof
Lemms, S., MEng	†Lectr
Hebert, E.	Lectr
Murphy, C. L., DIC, BSc <i>Mont</i>	Lectr
O'Shaughnessy, M. D., MEng	Seasl. Lectr.
Short, R., BEng	Lectr
Zeebor-Murray, P. J., BEng	Lectr
3 Demrs.	

**Mining and Metallurgical Engineering**

Morrison, R. G. K., BAsc <i>Tor</i> .	(Mining) Macdonald Prof.
Geldart, L. P., BA <i>McLdl.</i> , MA <i>Tor</i> ,	PhD
	George Boyd Webster Prof.



- Blank, F., DSc(NatSci) DSc(TechSci) *E.T.H. Zurich* Asst Prof.
- Butts, Mrs. Constandina A., MD *Chgo* Asst Prof.
- Masson, Anne M., BA *Stras., MD Paris* Asst Prof.
- Via, S., MD PhD *Bnd.* Asst Prof.
- Matheson, B. H., MSc *Dal., PhD* Asst Prof.
- Cooke, Mrs. Patricia, BA *Br.Col* Lectr.
- Franklin, M., BSc *Fdg., PhD* Lectr.
- Normak, Miss Salme, MSc *†Lectr.*
- Kapica, L., BSc *Wales* Lectr.
- Manikiewicz, Mrs. Edith, MSc *Leop., MD Lyons* *†Lectr.*
- Silav, R., MD *Derpat (Tartu)* Lectr.
- Biochemistry, see above**
- Clinical Therapeutics**
- Fullerton, C. W., MD CM, FACP Assoc. Prof.
- Gynaecology, see Obstet and Gynecol.**
- Health and Social Medicine**
- Vivian, R. P., MD *Tor.* Strathcona Prof.
- Fleming, D. S., DPH *Tor., BA MD CM* Assoc. Prof.
- MacMillan, C. W., MD CM *Dal., DPH Tor.* Assoc. Prof.
- Nix, Margaret E., BA MPH PhD *Mich.* Assoc. Prof.
- Bain, Mrs. Marion A., MSc *Cal., BHS* Asst. Prof.
- Burke, H. E., MD CM MSc PhD *†Asst. Prof.*
- Townsend, M. G., MD CM *†Lectr.*
- Wiener, F., MD CM *†Lectr.*
- Benn, D., MD CM *Que.* *†Lectr.*
- †Dent*
- Medicine**
- Browne, J. S. L., BA BSc(Med) MD CM PhD, FACP, FRCPCan, FRSCan (Investigative Med.) Prof.
- Christie, R. V., MD *Edin., MSc* Prof.
- Camron, D. G., MC, BSc *Oxon. & Sank., MD CM, MRCP* Prof.
- Venning, Eleanor H., MSc PhD Prof.
- Faurey, N., BA *Loyola (Montreal), MD CM, FACP* *†Assoc. Prof.*
- Solomon, S., MSc PhD *Assoc. Prof.*
- Faurey, R., MD *Tor., FRCPCan* *†Assoc. Prof.*
- Fullerton, C. W., MD CM, FACP *†Assoc. Prof.*
- Hill, W. H. P., BA MD CM *Assoc. Prof.*
- Halpenny, G. W., BSc MD CM, FRCPCan, FACP Assoc. Prof.
- Hoffman, M. M., BA MSc *Dal., MD CM PhD* *†Assoc. Prof.*
- Howlett, J. G., MD CM MSc, FRCPCan *†Assoc. Prof.*
- Mitchell, H. S., BA MD *Que., FACP* *†Assoc. Prof.*
- Rose, B., BA MD CM MSc PhD Assoc. Prof.
- Bates, D. V., MB BChir *Canb., MD, MRCP* Assoc. Prof.
- Bensley, E. H., MBE, BA MD *Tor., FRCP* Assoc. Prof.
- Johnson, A. L., MD CM *†Assoc. Prof.*
- Beck, J. C., MD CM MSc DiplIntMed Assoc. Prof.
- Copping, G. A., MD CM, FRCPCan Assoc. Prof.
- Lowenstein, L., BA MD *Vanderbilt, FACP* Assoc. Prof.
- Gaoud, C. J. P., MD *Paris, PhD* Assoc. Prof.
- McGregor, M., MD *Rand* Assoc. Prof.
- Townsend, S. R., BA MD CM, FACP *†Assoc. Prof.*
- Adams, L. J., MD CM, FRCPCan, FACP *†Asst Prof.*
- Hobknk, R., BSc PhD *Edin.* Asst Prof.
- Bennette, R. C., AB *Calif., MD CM* *†Asst. Prof.*
- Burke, H. E., MD CM MSc PhD *†Asst. Prof.*
- Craig, G. E., BCom MD CM DTM *†Asst Prof.*
- Johnson, L. G., BSc MD CM, FRCPCan *†Asst. Prof.*
- Katz, F., MD *Prague* *†Asst Prof.*
- Mackenzie, K. R., BA MD CM PhD *†Asst Prof.*
- Meskinen, J. P., MA *Canb., MD CM, FRCPCan* *†Asst Prof.*
- Pattie, C. J., BA *Bishop's, MD CM MSc* *†Asst. Prof.*
- Smith, F. McI., MD CM MSc, FACP *†Asst Prof.*
- Bourne, F. M., BA *Oxon & McG., MD CM, FRCPCan* *†Asst. Prof.*
- Maine, I. G., MD CM *†Asst. Prof.*
- Thom, A. T., MD *Tor., BA* *†Asst. Prof.*
- Kalant, N., MD BSc *Tor., PhD* *†Asst. Prof.*
- Fowler, A. F., MD CM, FRCPCan *†Asst. Prof.*
- McGary, Eleanor, BSc MD CM *†Asst. Prof.*
- McKenney, R. D., BA *Mont., MD CM, FRCPCan* *†Asst. Prof.*
- Richter, M., BSc PhD *Asst. Prof.*
- McCallum, J. L., BA MD CM, FRCPCan *Asst. Prof.*
- Seawitt, B., MB BS *Leind* *†Asst Prof.*
- Becklake, Margaret, MD *Bnd* *†Asst Prof.*
- Reid, E. A. S., BA MD CM *†Asst Prof.*
- Dossator, J. B., BM *Oxon*, MRCP *Asst Prof.*
- Hollenberg, C. H., BSc MD *Mont.* *Asst Prof.*
- Mackenzie, J. M., MD ChB *St.And.* *Asst Prof.*
- Aronovitch, M., BSc MD CM, FRCPCan *†Lectr.*
- Young, W. A., BA MD CM *Que., FRCPCan* *Lectr.*
- Baiker, C. S., BA MD CM, FRCPCan, FACP *†Lectr.*
- Bisbender, J. O. W., MD CM *†Lectr.*
- Cleghorn, R. A., MD *Tor., DSc Abert.* *†Lectr.*
- Edwards, P. A., BSc N.Y., MD CM *†Lectr.*
- Gordon, A. L., BSc MD CM, FRCPCan *†Lectr.*
- Harben, R. G. M., BSc MD CM *†Lectr.*
- McLellan, W. G., BA MD CM *†Lectr.*
- Martin, J., MD CM *†Lectr.*
- Miller, A., MD CM, FRCP *†Lectr.*
- Quinn, T. J., MD CM, FACP *†Lectr.*
- Sowden, K. A., MB BS *Leind* *†Lectr.*
- Shapiro, L., MD CM *†Lectr.*

Stricker, M. R., MD CM	† Lectr.	Tailor, W. F., MD Lond	† Asst. Prof
Weil, P. G., BA N Carolina, MSc MD CM	† Lectr.	Gloor, P., MD <i>Lausanne</i>	Asst Prof
PhD	† Lectr.	Matheson, G., MB ChB <i>Aberd.</i>	Asst Prof
Wright, G. E., OBE, MD CM	† Lectr.	Bertrand, G., MD <i>Montreal</i> , MSc	Asst Prof
Woodhouse, D. H., MD <i>W Ont</i>	† Lectr.	Wolfe, L. S., MSc N.Z., PhD <i>Canb.</i>	Asst Prof
Bellens, C. M., MD CM <i>Dal</i> , DiplIntMed	† Lectr.	Milner, Brenda, MA <i>Canb.</i> , PhD	Asst Prof
	† Lectr.	Thomas, P. K., BSc MD <i>Lond.</i> , MRCP	
Baxter, R. G., MD CM	† Lectr.	Rabinovitch, R., BA N.Y., MD <i>Paris</i> , MSc	† Asst. Prof.
Beck, I., MD <i>Geneva</i>	† Lectr.		† Asst. Prof.
Brown, S., BSc MD CM	† Lectr.	Graham, B., BA MD CM <i>Dal</i>	† Lectr.
Burton, L., MD CM DiplIntMed	† Lectr.	Heller, I. H., DSc MD CM	† Lectr.
Gold, A., MD CM MSc, FRCPCan	† Lectr.	Hewitt, D. A., MB BS <i>Lond</i>	† Lectr.
Hutchinson, J. L., MD CM	† Lectr.	Pappas, Mrs. Hanna, MSc PhD	† Lectr.
Wolfe, R., MD <i>Phab</i>	† Lectr.	Blundell, J., MA MD <i>Canb.</i> , MRCP	
Lapin, A. W., BA MD CM, MRCP, FRCPCan	† Lectr.	FRCS	† Lectr.
Leith, W., BA <i>Montreal</i> , MD CM <i>Dal</i>	† Lectr.	Branch, C., MD <i>Vanderbilt</i> , MSc	† Lectr.
Levitin, B. A., BSc MD CM	† Lectr.	Peot, P. L., BS MD <i>Tulane</i>	† Lectr.
Macdonald, A. D., MD CM	† Lectr.	Schuer, R., MA <i>Montreal</i>	† Lectr.
MacDonald, C. C., MD CM	† Lectr.	9 Demers, 1 Teaching Fellow, 1 Res Fellow	
MacIntosh, D. J., BA <i>St. F.X.</i> , MD CM	† Lectr.		
DiplIntMed, FRCPCan	† Lectr.		
Pare, J. P. A., BSc MD CM	† Lectr.		
Place, R. E. G., BA MD CM DiplIntMed, FRCPCan	† Lectr.		
Polson, J. S., BA MD CM	† Lectr.		
Brandt, J. L., AB <i>Nich.</i> , MD <i>Long Island</i>	† Lectr.		
Coll	† Lectr.		
Coswell, L. A., MD CM <i>Que.</i>	† Lectr.		
Chappel, C., DVM <i>Tor.</i> , MSc	† Lectr.		
Cohen, W., MD CM	† Lectr.		
Schuchet, R., MSc <i>Sask.</i> , BSc PhD	† Lectr.		
Asselin, C., BA <i>Montreal</i> , DDS	† Lectr.		
Derragh, J. H., MD CM, FRCPCan	† Lectr.		
De Leeuw, Nanne, MD <i>Ley</i>	† Lectr.		
Genest, J., BA MD <i>Montreal</i> , FRCP, FACP	† Hon Lectr		
Knight, A., BSc MD CM	† Lectr.		
Shanks, J. A., BA <i>Que.</i> , MD CM	† Lectr.		
Stacey, C. H., BSc MD CM	† Lectr.		
Stanford, R. L., MD CM	† Lectr.		
Staubington, D., MB BS <i>Lond.</i>	† Lectr.		
Telner, P. P., MD <i>Montreal</i>	† Lectr.		
37 Demers			

## Neurology and Neuro-Surgery

Feindel, W. H., BA <i>Acad.</i> , MSc <i>Dal.</i> , DPhil <i>Oxon.</i> , MD CM	William Cone Prof.
Jasper, H. H., AB <i>Reed</i> , MA <i>Oregon</i> , PhD <i>Jona</i> , MD CM (Exper. Neurol.)	Prof.
Resmussen, T. B., MD <i>MS Minn.</i>	
Prof., Dir. of Neurol. Inst.	
McNaughton, F. L., BA MSc MD CM (Neurol.)	Prof
Elvidge, A. R., MD CM MSc PhD, FRCPCan (Neurol.)	† Assoc. Prof.
McRae, D. L., MD <i>W Ont.</i>	Assoc. Prof.
Robb, J. P., MD CM MSc (Neurol.)	† Assoc. Prof.
Cosgrove, J. B. R., MD <i>Montreal</i> , MSc <i>Montreal &amp; Canb.</i>	Asst. Prof.
Elliott, H. W., BSc MD CM (Neurol.)	† Asst. Prof.
Lloyd-Smith, D. L., MD CM, FRCP	† Asst Prof

Obstetrics and Gynaecology	
Maughan, G. B., MSc MD CM, FACS	Prof.
Moore, W. R., BA <i>Br. Col.</i> , MD CM, FACS	† Assoc. Prof.
Lator, J. P. A., BSc MD CM	Assoc. Prof.
MacFarlane, K. T., MD <i>W. Ont.</i> , FACS	† Assoc. Prof.
Simpson, G. A., MD CM, FRCOG, FACS	† Assoc. Prof.
Purinton, T., BSc MB ChB <i>Edin</i>	Asst Prof
Sparling, D. W., MD <i>Tor.</i> , FACS	† Assoc. Prof.
Misra, J. L., MD <i>W Ont.</i> , FRCPCan, FACS	† Asst. Prof.
Twoedde, F. V., BA <i>New Br.</i> , MD CM	† Asst Prof
Hendelman, M., BA MD CM	† Lectr.
Routledge, J. H., MD CM, FRCPCan	† Lectr.
Blaney, P. R., BA <i>Sask.</i> , MD <i>Tor.</i> , FRCPCan	† Lectr.
Donnelly, Grace, MD CM	† Lectr.
Gold, S., BSc MD CM	† Lectr.
Young, M. H. V., BA MD CM	† Lectr.
Bourne, H. B., MD CM	† Lectr.
MacCallum, E. A., BA MD CM, FRCPCan	† Lectr.
Oxorn, H., MD CM <i>Dal.</i> , BA BCL, FRCPCan	† Lectr.
16 Demers	

## Ophthalmology

Locke, J. C., MD CM	† Prof.
Alexander, B., BSc MD CM	† Assoc. Prof.
Nicholls, J. V., BA MSc MD CM	† Assoc. Prof.
Viger, R. J., MD CM	† Asst Prof
Kirschberg, L. S. S., MD CM	† Lectr.
Turnbull, W., MD CM	† Lectr.
Adams, S. T., MD CM	† Lectr.
Bourne, R. A., BA MD CM	† Lectr.
Murphy, S. B., SB <i>Harv.</i> , MD CM	† Lectr.
7 Demers	

**Oto-Laryngology**

- McNally, W. J., BA MD CM Dal.,  
Hon. LLD *St F.X.*, DSc, FRCSCan {Prof  
Scharfe, E. E., MD CM {Assoc. Prof.  
Stewart, E. A., MA *New Br.*, MD CM,  
FRCSCan, FRCSed {Assoc. Prof.  
Gannon, R. P., BSc MB ChB *Adanc* Asst. Prof.  
Smith, E. J., BSc MD CM Dal. {Assoc. Prof.  
McHugh, H. B., BSc MD CM {Assoc. Prof.  
Baxter, J. D., MD CM MSc {Lectr.  
Grossman, A., MD CM {Lectr.  
Shimo, G., BA *Br Col.*, MD CM {Lectr.  
3 Dents

**Pædiatrics**

- Ross, A., MD CM Prof.  
Denton, R. L., BSc MD CM Assoc. Prof.  
Warden, E. M., MD Tor {Assoc. Prof.  
Johnson, A. L., MD CM MSc {Assoc. Prof.  
MacDermot, P. N., MD CM {Asst. Prof.  
Bacal, H. L., MBE, BA MD CM {Lectr.  
O'Neill, J. H., BSc *St F.X.*, MD CM {Lectr.  
Elder, J., BSc MD CM {Lectr.  
Clogg, D. K., BSc MD CM {Lectr.  
Gibbons, J. E., MD CM *Qu.* {Lectr.  
Goldbloom, R. B., MD CM, FRCPCan {Lectr.  
Hillman, D., BSc MD CM {Lectr.  
Nickerson, G. H., BA *Acad.*, MD CM {Lectr.  
16 Dents., 3 Teaching Fellows

**Parasitology, see Macdonald Coll., Inst  
of Parasitol., p. 238****Pathology**

- McMillan, G. C., MD CM MSc PhD  
Wiglesworth, F. W., MD *Mont.* *Seathcom* Prof.  
Mathews, W. H., MD CM {Assoc. Prof.  
Puzosynski, W., MD *Zür.* {Assoc. Prof.  
Kahn, D. S., BA *Sask.*, MD Tor. Asst. Prof.  
Sheldon, H., MD *Johns H.*, BA Asst. Prof.  
Tharbeck, W., BSc MB ChB *Cape T.* Asst. Prof.  
Schopflocher, Paula H., MD *Heidel.* {Lectr.  
Simon, M. A., BA MD *W. Reserve* {Lectr.  
Moore, S., MB BCh *Belf.* {Lectr.  
3 Dents., 2 Teaching Fellows

**Pharmacology and Therapeutics**

- Melville, K. I., MD CM MSc (Pharmacol.) Prof.  
Benfey, B. G., MD *Hamburg* Assoc. Prof.  
Eade, N. R., MSc *Sask.*, DPhil *Oxon* {Asst. Prof.  
Kovacs, B. A., MD *Sageed* Asst. Prof.  
Joron, G., BA *Loyola (Montreal)*, MD CM {Lectr.  
Shuster, H., BA MD CM {Lectr.  
Kovacs, Mrs. Eva, MD *Sageed* Lectr.  
Varna, D. R., MD *Lack.* Sessl. Lectr.

**Physiology, see above****Physiotherapy, see Physical and Occupational  
Therapy, below****Psychiatry**

- Cameron, D. E., MD *Glas.*, DPM *Load.*,  
FRCPCan Prof., Dir., Allan Memorial Inst. of  
Psychiatry  
Moll, A. E., BCL MD CM {Prof.  
Clingham, R. A., MD *Tor.*, DSc *Aberd.* Prof.  
Malmo, R. B., MA *Musson*, PhD *Yale* (Perchol) Assoc. Prof.  
Silverman, B., MD CM {Assoc. Prof.  
Statten, T., MD *Tor* Assoc. Prof.  
Wittkower, E., MD *Berl.* Assoc. Prof.  
Dancey, T. E., MD CM {Assoc. Prof.  
Lehmann, H., MD *Berl.* {Assoc. Prof.  
MacLeod, A. W., BSc MB ChB DPH *Glas.*,  
DPM *Load.* {Assoc. Prof.  
Saffran, M., MSc PhD Assoc. Prof.  
Sourkes, T. L., PhD *Gov.*, MSc {Assoc. Prof.  
Kral, V. A., MD *Prague* {Assoc. Prof.  
Azama, H., BA *Calif.*, MD *Kauai*, MSc Assoc. Prof.  
Epstein, N., MD CM *Dal.* Assoc. Prof.  
Aufhauser, J., MD {Asst. Prof.  
Boa, C. G., BA MD CM {Asst. Prof.  
Caplan, H., MD CM {Asst. Prof.  
Cormier, B., BA MD *Mont.* Asst. Prof.  
Edgell, P. G., BA *Bishop's*, MD CM Asst. Prof.  
Ellenberger, H. F., MD Asst. Prof.  
Hasey, L. G., MD *Tor* {Asst. Prof.  
Davis, J. P., MEng MD CM Asst. Prof.  
Roberts, C. A., BSc MD CM *Dal.* {Asst. Prof.  
Murphy, H. B. M., MB ChB *Edin.*,  
DPH *Load.*, PhD *N Y.* {Asst. Prof.  
Birmingham, Marion, BA *Birmingham*,  
MSc PhD {Asst. Prof.  
Hunter, R. C. A., MD CM {Asst. Prof.  
Mann, A., MD CM {Asst. Prof.  
Straker, M., MD CM {Asst. Prof.  
Grad, B., BSc PhD Asst. Prof.  
Barza, S., BSc MD CM {Lectr.  
Beaubien, J., BSc MD CM DiplPsych {Lectr.  
Hunt, B. R., BM BCh *Oxon* {Lectr.  
Kraus, H., BA MD CM {Lectr.  
Meigle, L., BSc MD CM {Lectr.  
Sarwer-Fower, G. J., BA MD *Mont.* {Lectr.  
Skutch, C. H., BA MD *Alta* {Lectr.  
Smith, C. C., BA *Omo*, MD CM {Lectr.  
Taylor, G. C., BSc MD CM {Lectr.  
Wilson, S., BA MD CM DiplPsych {Lectr.  
Levy, L., BA *Dub.* {Lectr.  
Levin, D. C., MB BS *Load.* {Lectr.  
Kraus, W. G., BA MD CM {Lectr.  
Axinn, Mrs. Fern, BA *Qu.*, MA *Corn.* {Lectr.  
Aufhauser, Friedl., MD *Vienne* {Lectr.  
Cahn, C. H., MD *Tor* {Lectr.  
Durost, H. H., MD {Lectr.  
Palmer, R. H., MD MSc BA *W. Ont.* {Lectr.  
Dudek, Stephanie, MA *Cal.*, PhD *N Y.*,  
BA {Lectr.  
Lester, Mrs. Eva, MD *Athens* {Lectr.  
Lipowski, Z. J., MB BCh *N U I* {Lectr.  
Nalman, J., BA MD CM {Lectr.

Stauble, W. J., BSc MD CM  
14 Deme., 1 Res. Assoc.

†Lectr.

### Radiology

Parce, C. B., AB MSc MD Mch, FACP, FRCPCan, †Prof.  
Bouchard, J. J. L., MD Lond., DMRE Canb., †Assoc. Prof.  
McRae, D. L., MD W. Ont., †Assoc. Prof.  
Scrimieaux, D. J., BA New Br., MD CM Dal., †Assoc. Prof.  
Crutchlow, E. F., OBE, BA MD CM, †Asst. Prof.  
Dunbar, J. S., MD Tor., †Asst. Prof.  
Fraser, R. G., MD Mount., Dip Rad., †Asst. Prof.  
Stephens-Newsam, L. G., BA Sask., Ph.D. (Phys.), †Asst. Prof.  
Brown, N., BA MD CM, †Lectr.  
Granger, P. A., BA Mt. All., MD CM, †Lectr.  
Philips, T. F. B., BSc MD CM, †Lectr.  
Hale, B., BSc MD CM, †Lectr.  
Loughheed, M. N., MD CM, †Lectr.  
2 Deme.

### Surgery

Robertson, H. R., BSc MD CM, Prof.  
Webster, D. R., OBE, BA MD CM Dal., MSc Ph.D., FRCSCan (Expor. S.), Prof.  
Martin, S. J., MD CM, FRCSEd, FRCSCan, †Assoc. Prof.  
Murphy, D. R., MD CM, FRCS, Assoc. Prof.  
Gard, F. N., MSc Paed., MD CM, †Assoc. Prof.  
McCurriston, J. R., BA Sask., MD CM, MSc, FRCSCan, Assoc. Prof.  
MacKinnon, K. J., BSc St. F. X., MD CM Dal., †Assoc. Prof.  
Luke, J. C., MBE, BA MD CM, FRCSCan, FRCS, †Assoc. Prof.  
Morton, H. S., OBE, BA MSc Dal., MB Lond., FRCS, FRCSCan, FACS, †Assoc. Prof.  
Mostley, H. F., MA DM Mch Oron., BA, FRCS, FRCSCan, FACS, †Assoc. Prof.  
Petrie, J. G., MD CM, †Assoc. Prof.  
Shannon, J. G., MD Tor., FACS, †Assoc. Prof.  
Vineberg, A. M., MD CM MSc Ph.D., FACS, †Assoc. Prof.  
Woolhouse, F. M., BSc Sask., MD CM, FRCPCan, †Assoc. Prof.  
McIntosh, C. A., BA MD CM, †Assoc. Prof.  
Baxter, S. G., MD CM MSc Ph.D., †Asst. Prof.  
Gerne, J. W., BA DDS Alta., MD CM, †Asst. Prof.  
Owen, H. F., BA MD CM, †Asst. Prof.  
McNaughton, E. A., MD CM, FRCSCan, †Asst. Prof.  
Holland, G. A., BCom MD CM, FRCSCan, †Asst. Prof.  
Palmer, J. D., BA New Br., MD CM, †Asst. Prof.  
Couper, W. M., BSc MD CM, FRCSEd, FRCSCan, †Asst. Prof.  
Baxter, H. A., DDS MD CM MSc, †Asst. Prof.  
Shorrock, S. C., MD Vienna, Ph.D. Bratislava, MSc, †Asst. Prof.  
Trank, J. W., BEng MS Mount., Lectr.

Butler, A. A., MD CM, †Lectr.  
Dickson, J. C., MD CM, FRCSCan, †Lectr.  
MacDonald, S. A., MB ChB Edin., BA, FRCSCan, †Lectr.  
Sutton, J. C., BA MD CM, †Lectr.  
Walker, J. A. L., BA MD CM, FACS, FRCSCan, †Lectr.  
McLean, J. T., MD Mount., †Lectr.  
Munro, D. D., BSc New Br., MD CM, †Lectr.  
Drummond, J. A., DDS Tor., MD CM, †Lectr.  
Entin, M. A., BA Temple, MSc MD CM, †Lectr.  
Henderson, J. W. D., MB ChB Glas., FRCSCan, †Lectr.  
Hopkins, J. F., BSc MD CM Dal., FRCSCan, †Lectr.  
Lawson, R. N., BA MD W. Ont., FRCS, †Lectr.  
Long, R. C., BSc MD CM, †Lectr.  
Tabish, E. J., BSc MD CM, †Lectr.  
Townsend, R., BSc MD CM, †Lectr.  
21 Deme., 1 Res. Assoc.

Therapeutics, see Pharmacol. and Therap.

### Urology

Reid, R. G., MD CM, †Assoc. Prof.  
MacDonald, S. A., MB ChB Edin., BA, FRCSCan, †Lectr.  
McLean, J. T., MD Mount., †Lectr.

### PHYSICAL AND OCCUPATIONAL THERAPY

Fisk, G. H., BA MD CM, †Assoc. Prof., Dir. of Sch.  
Gault, Mrs. Helen M., BSc (P&OT), Asst. Prof.  
Gemery, Mrs. Helen M., BA St. G. Wm., MA Col., Dip Admin., Asst. Prof.  
Aston, Edith P., Dip IP&OT, Lectr.  
Dunkan, Elizabeth, Lectr.  
Pearce, Mrs. Irma P., Lectr.  
Perodessa, Mrs. Sally, Lectr.  
Wald, Joan, Lectr.  
Finch, Mrs. Elspeth, Lectr.  
Lundell, F. W., BA B. Col., MD CM, †Lectr.  
(Instruct. is given by members of the Fac. of Med., Sch. for Grad. Nurses and Sch. of Phys. Educn.).  
6 Deme.

### PHYSICAL EDUCATION

Griffiths, H. E., MA Middlebury, BCom, Assoc. Prof., Dir. of Athletics.  
Munroe, Iveagh, BSc MA Col., Dip McG. Sch. of Phys. Educn., Assoc. Prof., Dir. of Athletics for Women.  
Wood, Winona, BEd Sask., MA Col., Assoc. Prof.  
Bean, Gladys, MA Col., Dip McG. Sch. of Phys. Educn., Asst. Prof.



Ryan, H. R., BA *Acad*, BPE *Springfield*

Wagner, Thelma, BSc MA N Y.	Asst. Prof
Wilkinson, R. E., MA Col., BSc	Asst. Prof
7 Instra.	Asst. Prof.

**SCHOOL FOR GRADUATE NURSES**

Chittick, Miss Roe, BS Col., MA *Stas.*,  
LLD *Alta*, MPH *Harv.*

Allen, Moyra, MA <i>Chic.</i>	Asst. Prof
Logan, Elizabeth, BSc <i>Acad</i> , MN <i>Yale</i>	Asst. Prof

Genesoy, Mrs Helen M., BA <i>StrG Wisc.</i>	Asst. Prof
MA Col., DipAdmin	Asst. Prof.

Richmond, Mary, MA Col., BN	Asst. Prof
Shaw, Ethel C., BScN <i>Alta</i> , MSc <i>Somerset</i>	Asst. Prof.

Riley, Irma K., BSc MA <i>Cal</i>	Asst. Prof.
McDowell, Fay, BSc <i>Cal.</i>	Lectr.

Palmer, Zella, BN	Lectr.
Doyle, Mirth, BN	Lectr.

Moogk, Helen E., BN	Lectr.
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**SOCIAL WORK**

Moore, J. J. O., AB <i>Missouri</i> , MA <i>Duquesne</i> , EdD <i>Cal</i>	Prof., Dir.
Kirk, H. D., BSc N Y., MA PhD <i>Columbia</i>	(on leave) Assoc. Prof

Lightham, J. B., AB LLB <i>George Washington</i> , MSS N Y	Assoc. Prof
Young, Eva R., BA <i>Alta</i> , MA	Assoc. Prof

Freeman, Mrs. Dorothy R., BA DipSocWk	Assoc. Prof
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Gifford, C. G., DFC, MSW <i>Brit</i> , BA	Assoc. Prof
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Griffiths, Margaret, BA <i>W Ont</i> , MA (SSW) <i>Chic.</i> , DipSocWk <i>Tor</i>	Assoc. Prof
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Katz, M., BA <i>StrG Wisc.</i> , PhD <i>Cal.</i> , MSW	Assoc. Prof.
---	--------------

Ross, Varsity M., BSc <i>Cal</i> , MSc PhD	Assoc. Prof
--	-------------

Tuck, Helen H., BA <i>Mont.</i> , MSW	Assoc. Prof
Stevenson, Miss. Mary, BA <i>Sask.</i> , MSW	Asst. Prof

DipSocWk <i>Tor</i>	Asst. Prof
Rotman, A., BA <i>StrG Wisc.</i>	Sp. Lectr.

MS <i>IF Reserve</i>	Sp. Lectr.
Woodhouse, D. F., BSc MSW	Sp. Lectr.

**ADMINISTRATIVE AND OTHER STAFF (Montreal)**

Asst Registrar: Virginia Cameron, BA. Dir of Admissions: W. K. Nelson, BA. Dir of Univ Extension: Assoc. Prof H. R. C. Ayson, MA. Dir of Physical Plant: P. N. Gross, BSc Supt of Bldgs. and Grounds: P. A. Cunningham, BA. McGill Graduates' Soc.: J. T. Lefleur, BA. Chief Accountant: D. C. Bean, BA. Purchasing Agent: W. A. Barclay, BSc (Agr). Univ Chaplain and Student Counsellor: E. C. Knowles, BD *Tor*, MA Hon DD. Development Officer: D. L. Gales, BA BCL. Dir of Univ Placement Services: R. C. Coleman, DSO, MC, LLB *Dal*, BA. Dir. of Athletics,

Phys. Educn. and Recreation: H. E. Griffiths, MA *Middlebury*, BCom. Warden of Royal Victoria Coll.: Muriel V. Roscoe, AM PhD *Radcliffe*, Hon DSc *Acad.*, Hon LLD *Que*. McGill Univ Representative in Gr Britain: H. E. C. Rubie, BSc *Que.*, Student Aid Officer: J. D. Cleghorn, ED. Sec.-Treasurer of McGill Students' Soc.: W. T. Hastings, BA *Dalh.*, Asst Univ Librarian: Beatrice V. Simon, MA DipLS. Dir of Student Health Service: R. P. Vivian, MD *Tor*. Dir. of Men's Residences: W. S. Reid, ThM *Westminster (Pa)*, PhD *Penn.*, MA.

**MACDONALD COLLEGE**

Postal Address: Macdonald College, P.Q., Canada

Telephone: Glendale 2-5335

Vice-Principal, and Dean, Fac. of Agric.—H. G. Dion, BSc *Sask.*, PhD *Wisc.* Sec.—R. L. Puxley, Registrar—

**AGRICULTURE****Agricultural Bacteriology**

Blackwood, A. C., MSc <i>Alta.</i> , PhD <i>Wisc.</i>	Prof.
MacLeod, R. A., MA <i>Br Col.</i> , PhD <i>Wisc.</i>	Assoc. Prof

Knowles, R., BSc <i>Brit</i> , PhD <i>Lond.</i>	Asst. Prof
---	------------

**Agricultural Chemistry**

Common, R. H., BSc Magi <i>Reiff.</i> , PhD DSc <i>Lond.</i> , FRIC	Prof.
--	-------

Dion, H. G., BSc <i>Sask.</i> , PhD <i>Wisc.</i>	Prof.
De Long, W. A., BSA <i>Tor</i> , PhD <i>Miss.</i>	Prof.

Baker, B. E., BSc <i>Bishop's</i> , PhD <i>Laval</i>	Assoc. Prof
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Henneberry, G. O., BSc <i>Dalh.</i> , MSc	Asst. Prof
---	------------

2 Demra.	
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**Agricultural Economics**

MacFarlane, D. L., BSA MSc <i>Sask.</i> , PhD <i>Miss.</i>	Prof
---	------

Haver, C. B., BSc Sask, MSc Calif, PhD Iowa  
Assoc. Prof.

### Agricultural Engineering

Banting, E. A., BSA Tor Prof  
Cooper, J. H., BSc(Agr) Assoc. Prof.  
Broughton, R. S., BSA Tor, SM MIT Lectr

### Agricultural Physics

Rowles, W., BSc Sask, MSc PhD Prof  
Warlock, B. P., BSA Br Cal, MS Wash, PhD Conn Asst Prof  
Cartier, A. L., MSc Dal, PhD Asst Prof

### Agronomy

Stappeler, H. A., BSA Manit, MSc Prof  
Brown, R. I., BS Penn. State Assoc. Prof.  
Klusek, H. R., BSA Tor, MSc Asst Prof  
Bubier, J. S., MS Paw, BSc Asst Prof.

### Animal Science

Clampton, E. W., BS Conn, MS Iowa, PhD Conn, Hon DSc R'dg, FCIC, FRSCan Prof  
Lloyd, L. E., BSc(Agr) MSc PhD Prof  
MacDonald, M. A., MSA Br Cal, PhD Oregon State Assoc. Prof.  
Nikolacuk, N., MSc Alta, PhD Ohio State Assoc. Prof.  
Dale, D. G., DVM Tor, Assoc. Prof.  
Anastasiadis, P. A., BAgr Athens, MEd Rutgers Asst Prof.  
Moxley, J. R., BSc(Agr) Asst Prof.  
MacRae, H. F., MSc(Agr) PhD Asst Prof.  
Donner, E., MS Conn. Asst Prof.

### English

Avison, H. R. C., MA Assoc. Prof.; Dir., Univ. Extension  
Cole, D. W., MA Br. Col Asst. Prof.  
Dubessal, Mrs. Margaret, MA Aberd. Lectr.  
Godfrey, A. R., BA Alta, MA Tor Lectr.  
Felding, D., BA N Staffs. Lectr.

### Entomology and Plant Pathology

DuPois, E. M., BSA MSc PhD Prof  
Kevan, D. K. M., BSc Edm., PhD Nott. Prof  
Sackinton, W. E., BSA Manit, MSc PhD Minn Prof  
Coulson, J. G., MA Qu., DSc Manit. †Prof.  
Le Roux, E. J., BA Ger, MSc PhD Assoc. Prof.  
Morrison, P. O., BA MSc(Agr) Alta, PhD Assoc. Prof.  
Pelleier, R. L., PhD Wis., MSc Assoc. Prof.  
Ester, R. H., BSc MS Manit, PhD Assoc. Prof.  
Callen, E. O., BSc PhD Edm., FLS Asst. Prof.  
McFarlane, J. E., MA Sask, PhD Ill Asst Prof.  
1 Asst.

### Horticulture

Murray, H. R., BSA Tor, MSc Conn Assoc. Prof.

Taper, C. D., MScAgr Br Cal, PhD Manit.

David, J., LSA Manit, PhD Calif. Asst. Prof.  
Harney, Patricia M., BSc(Agr) Lectr.

### Woodlot Management and Morgan Arboretum

Jones, A. R. C., BSc Tor Asst. Prof.

### HOUSEHOLD SCIENCE

Nelson, Helen R., MBE, BHS MSc Prof., Dir. of Sch.  
Honey, F. Isabel, MA Tor.  
Deveraux, Helen L., MA Tor Assoc. Prof.  
Jenkins, Margaret M., BSc(HEd) MSc Alta Asst. Prof.  
Zarkodas, Mrs. Marion, BSc Alta Lectr.  
Stewart, Margaret R., BHS Lectr.  
Tucker, Frances A., BSc(HEd) Lectr.  
Young, Mrs. Helen G., BSc(HEd) Lectr.  
Wien, Frances Lectr.  
Raymond, Duane, BSc Manit Lectr.  
Martin, Mrs. Katherine, BHS Secl Lectr.  
MacFarlane, Mrs. Gertrude, MusBac Tor, MSc Kentucky Secl Lectr.

### INSTITUTE OF EDUCATION

Munroe, D. C., MA  
(Educ.) MacDonald Prof., Dir. of Inst.  
Edwards, R., BSc Lond., MEd Manit. Prof.  
Hall, C. W., MA Buskop's Prof.  
Hanson, F. K., MusD (Music) Prof.  
Henry, A. M., BA Lond., MA (Educ.) Prof.  
Hawkins, S. C. McL., DU Paris, MA Assoc. Prof.  
Young, J. E. M., BA Melb., MEd Sask, PhD Tor Assoc. Prof.  
Wisenthal, M., BA SurG.Winn, MA Assoc. Prof., Asst. to Dir.  
Bowers, Phyllis, BA Qu Asst. Prof.  
Crock, Frances E., BA Buskop's, MSc Bryn Mawr Asst. Prof.  
Duncan, Ruth, BA Manit, BSc(Ped) Asst. Prof.  
Horton, Marguerite F. L., BA Qu., MA Cal. Asst. Prof.  
Jacques, A. Elizabeth Asst. Prof.  
Morrison, H., BA Buskop's Asst. Prof.  
Tennison, Muriel, BA SurG.Winn, MA Wis. Asst. Prof.  
McElroy, G. E. W., BA Qu. Lectr.  
Nichol, Dorothy A., BSc(Ped) Lectr.  
Overing, R., BA SurG.Winn, MA Lectr.  
Pedersen, E., BA SurG.Winn. Lectr.  
Pugh, R. W. Lectr.  
Walker, Margaret C., BPhysEd Tor. Lectr.  
Horowitz, M., BA SurG.Winn, MEd Alta. Lectr.  
Ingles, F. G., MD CM Dal., MSc †Lectr.  
MacNeill, Daisy, BA Br Col, MA Cal. Lectr.  
McNicol, Shirley, BA Lectr.  
Stinson, Mrs. Frunza, BA SurG.Winn. Lectr.  
Unsworth, L., BSc Liv Lectr.  
Smith, D. C., BEd MA Lectr.

### CANADA

Matthews, Maxine  
Widlop, J. H., BSc(Econ) *Leads*  
Dosses, Rev. F. A. C., BA *Tor. & Oxon.*  
(Relig. Instrum.) Hon. Lectr.  
Kerr, J. BA (Relig. Instrum.) Lectr.  
Jones, K., BMus *Mt All*, DMus *Tor.* | Lectr.  
Lorain, G. | Lectr.  
Dunn, J. W., BA *Lin.* | Lectr.  
Kerr, T. M., BA | Lectr.  
May, C. R. P., MA *Leeds* | Lectr.  
Spolsky, B. J., BA *Welf.*, MA | Lectr.  
5 Demers.

Lectr.  
Lectr.

# INSTITUTE OF PARASITOLOGY

Cameron, T. W. M., TD, MA DSc *Edin.*  
BSc(VetSci) PhD *Leeds*, Hon. DSc *Br.*  
Col., FRSCan Prof., Dir.  
Fairbairn, D., BA *Qs*, PhD *Reich* Assoc. Prof.  
Tanner, C. E., BSc *Pavlov* Assoc. Prof.  
Hargui, R. P., BSc *N Z*, MSc PhD Asst. Prof.  
Schad, G. A., BSc *Can.*, MSc PhD Asst. Prof.  
Myers, Betty J., MA *Nebraska*, PhD Asst. Prof.  
Webster, Gloria A., MA *Can.*, PhD Asst. Prof.  
1 Asst.

## ADMINISTRATIVE AND OTHER STAFF (Macdonald College)

Physician in the Macdonald Health Service.  
W. Gossage, BA MD CM *Lobenstein*; Mrs  
Muriel Wells, BA BEd *Sask.*, BLS Asst Supt  
of Bldgs and Grounds: G. T. F. Wright

Warden, Bitham Hall: R. Knowles, BSc *Birm.*,  
PhD *Leeds*. Warden, Stewart Hall: Frances E.  
Crook, BA *Burgh's*, MSc *Bryn Mawr*. Warden,  
Laird Hall: Helen R. Neilson, MBE, BHS *MSc*

## AFFILIATED THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL, 3473 University St., Montreal, P.Q. (tel. Victor 9-3004) Founded 1873. Principal—Rev. E. G. Jay, MA *Leeds*, PhD *Leeds*

The above two colls. train students for the ministry and grant certs. for ordination, but in 1948 they remitted these degree-granting powers to the univ., which now confers degrees in div. upon properly qualified students.

UNITED THEOLOGICAL COLLEGE, 3508 University St., Montreal, P.Q. (tel. Victor 9-2042) Founded 1926. Principal—G. Johnston, MA BD Hon. DD *Glas.*, PhD *Canb.*

PHILBYLHIAN COLLEGE, 3690 Peel St., Montreal, P.Q. (tel. Victor 2-1926) Founded 1865. Awards own degree of BD. Principal—Rev. R. Lennox, MA *Thb DD*

## GENERAL INFORMATION

The Hon. James McGill, a leading merchant and prominent citizen of Montreal, who died in 1813, bequeathed 46 acres of land and £10,000 to the already existing 'Royal Institution for the Advancement of Learning' to found a univ. or coll. As a result, in 1828 a royal charter was granted and in 1829 teaching began in the Univ. of McGill College in the facs. of med. and arts. The charter was renewed in 1852. In 1899 the Royal Victoria Coll., a gift of Baron Stathoum, was opened to provide separate teaching and residential facilities for women students. In 1907 Macdonald Coll., named after Sir Wm. Macdonald whose gift it was, was established as a residential coll. for agric., household sci., and sci. for teachers. Since then the univ. has grown vigorously, dividing itself into further facs., and many new bldgs have been erected, especially since 1945.

The univ. is undenominational and has for many yrs. been co-educational in all its facs. and most of its colls.

CONSTITUTION. McGill Univ. is a corporation created by a royal charter granted by the Crown of the United Kingdom, general supervisory

power being retained by the Crown and exercised through the governor-general as 'visitor'. The governors of the univ. constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the province of Quebec, pt. of the official organization of the province, but completely self-governing. In them is vested the management of finances, appt. of profs. and other important duties, 5 of the governors are elected by the members of grade, soc. and other appts. are made by nomination of remaining members with the approval of the visitor. The pres. of the bd. of governors is, *ex officio*, chancellor of the univ. The principal is the academic hd. and chief admin. officer. He is appointed by the bd. of governors (of which body he is a member). He also holds the office of vice-chancellor of the univ. Senate consists of the chancellor, principal, deans of facs., warden of Royal Victoria Coll., dir. of inst. of educ., dir. of univ. extension and 4 group chairmen of facs. of arts & sci., all *ex officio*; 5 governors elected by the bd.; and 8 profs. elected by the various facs. The principal is chairman of senate, which is the highest academic authority of the univ.

and has control over admission, courses of study, discipline and degrees. The carrying out of the regns. of senate along with primary responsibility for the conduct of the educul. work of the univ. is entrusted to the several facs. and schs.

**INCOME (1966-67)** Total income, \$16,523,034 (excl. ancillary enterprises). Student fees, 21.3 per cent; gifts for operating purposes (other than ica), 3.5 per cent.; endowments, 12.9 per cent.; provincial grants, 30.3 per cent.; gifts, grants & endowments for res., 26.3 per cent. (incl. federal & provincial grants); other sources, 5.7 per cent.

**FACULTIES AND DEANS, see p. 224.**

**SCHOOLS AND DIRECTORS.** *Archit.*—J. Bland, *comm.*—D. E. Armstrong, *household sci.*—Helen Nielson, *library sci.*—Miss Vernon Ross; *music*—Miss Rae Chittick; *physiotherapy*—G. H. Fisk; *soc. work*—J. J. O. Moore, *stat. of educn.* (incl. the former sch. of phys. educn.)—D. C. Munroe.

**UNIVERSITY CAMPUS.** The main bldgs are grouped on the land originally bequeathed by James McGill and cover about 10 city blocks in the centre of the city of Montreal. Over a number of yrs the univ. has acquired land and bldgs to the N and E of the original campus, and residences for students and sports facilities have been provided in these districts. More recently bldgs to the W. have been added and several dep'ts as well as the schs. under the fac. of med. have been placed in them. 3 new residences, adjacent to Douglas Hall and the winter stadium, were opened in May 1966 by the Duke of Edinburgh. They provide accomm. for 685 men students.

**LIBRARIES.** General, 790,000 vols. (incl. MacDonald Agric. Coll. library); med., 62,000 vols. Sp. collections. Blackader libr. of archit., Blacker libr. of zool., Lyman collection of entomol.; Osler libr. of the hist. of med. and sci. (13,000 vols.); Redpath pamphlet collection, and Wood libr. of ornithol.

**LABORATORIES.** Agric. res., anat., bacteriol., biochem., biophys., bot., chem., electromech., engin., genetics, geol., health and soc. med., med. res., neurol., pharmacol., phys., physiol., psychol. and psychiatric res., pulp and paper res., radiation (with cyclotron), zool. **MORGAN ANTHROPOM.**

**RESEARCH INSTITUTES.** Agric. biophys., indust. relns. internat. an. & space law, Islamic studies, neurol., parasitol., pathol., personnel appraisal, psychiatry.

**Bellans inst.** Barbados marine biol. and trop. climatol. Associated with this inst. is Brace exper. stn. of fac. of engin.' engin. aspects of and land development, solar energy, wind power and desalination of sea water, high altitude testing.

McGill sub-arctic res. lab., Schefferville, P.Q. (open throughout yr.) \* geophys. and geog. res.

**FARM.** Livestock and grain, 876 acres.

**MUSEUMS.** Redpath (bot., geol., zool., entomol.), med. library, McCord (Canadiana)

**HOSPITALS.** Available for clinics, 3000 beds in affiliated hospes. Royal Victoria H., Montreal Gen. H., Montreal Children's H., Alexandra H. for Infectious Dis., Verdun Protestant H., Royal Edward Laurentian H., Royal Victoria Montreal Maternity H.

**ADMISSION.** See Appendix III.

**FIRST DEGREES.** 4 yrs from jr. matric—MusB, BA gen., BA hon., BCom, BSc gen., BSc hon., BSc(Agr), BSc(HSc), BEd, 3 yrs from jr. matric—BN (nursing), 5 yrs from jr. matric—BEng (chem., civil, elect., engin. phys., mech., metall., mining), BSc(P&OT) (phys. & occupat. therapy), BSc(Nursing), 6 yrs from jr. matric—BArch, DDS.

Hons. BA may be taken in classics, Engl., French, geog., German, hist., Latin, math., philos., psychol., in certain combinations of these subjs., or in anthropol. & sociol., classics, econ. & pol. sci., maths & phys. Hons. BSc may be taken in bacteriol. & immunol., biochem., biophys., bot., chem., chem. & phys., chem. & matl. phys., genetics, geog., geol. sci., geol. & phys. (geophys.), math., maths & phys., maths & psychol., math., zool., phys., phys. & physiol., physiol., physiol. & psychol., psychol., zool.; there is also a general hons. degree in bsci.

The univ. does not offer any evg. courses for univ. credit.

**HIGHER DEGREES.** BLS (library sci.)—2 yr. postgrad., BD—3 yrs' postgrad.; MD CM—4 yrs' postgrad., BCL—4 yrs. after BA; MSW—2 yrs' postgrad., MA, MCL, MSc, MEng, LL.M., MArch, STM (theol.)—1 yr.' resident grad. study, thesis and exam. MSc(Appl)—2 yrs' resident grad. study and exam. (no thesis); MLS—at least 1 yr. after BLS, PhD—3 yrs. grad. study.

MA may be taken in classics, compar. religion, econ. & pol. sci., educn., Engl. lang. & lit., French lang. & lit., geog., German, hist., Islamic studies, math., philos., psychol., sociol. & anthropol. MSc may be taken in agric. bacteriol., agric. chem., agric., anat., animal sci., bacteriol. & immunol., biochem., bot., chem., elect. communications, entomol., exper. med., exper. surg., fluid mechanics, genetics, geog., geol. sci., hort., investigative med., maths., metall., meteorol., neurol. & neurosurg., parasitol., pathol., pharmacol., phys., physiol., plant pathol., poultry husbandry, psychiatry, psychol., zool.

PhD may be taken in elect. and mech. engin., div. and in subjs. marked with \* above.

**HONORARY DEGREES.** DCL, DSc, DLit, LL.D.

The univ. does not award **EXTERNAL DEGREES.** Attendance at lectures at the univ. is indispensable for a degree or dipl., except in **IBUSO.**

**DIPLOMAS.** Grad. nurse's, 1 yr.; LMus, 3 yrs., phys. and occupat. therapy, 3 yrs. from jr. matric. Postgrad.—trop. med., 1 yr., and teacher's (awarded by province of Quebec), 1 yr. after BA.

or BSc. Phys. educn., a yrs from jr matric. Postgrad. dipls are also awarded in the fac. of med in the following clin. specialties: anaesthesia, dermatol and syphilol, internal med., neurol. & neurosurg., psychiatry, radiol and urol. These courses are open to approved med grads and cover from 3 to 5 yrs. of study.

**Diploma course in agriculture.** The dipl course in the fac. of agric. consists of 2 seasons of 5 mos each (Nov to March inclusive). Closely connected with this course is the 'Old Country boy' project, under which boys from the British Isles are encouraged to take up the dipl course at Macdonald Coll so as to fit them for the work of farming, and every effort is made to give them both the theoretical and the practical educn. that is needed.

**SUMMER SCHOOLS.** French (6 wks) and geog (from time to time)

**Fees.** Yearly tuition: arts, \$425; sci., \$475; engin., \$525; archt., \$525; med., \$600; dent., \$500; law (1st 3 yrs.) \$425, (4th yr.) \$350; div., \$400; music, \$400 to \$550; library sci., \$425; comm., \$425; soc. work, \$425; nursing (degree & dipl. courses), \$400; phys and occupat. therapy, \$400; grad. studies, \$425; agri. (degree course), \$285; household sci., \$285; educn (1st a yrs) \$235, (last 2 yrs) \$425

**ACADEMIC YEAR.** Sept-May: 2 or 3 terms

**FELLOWSHIPS, SCHOLARSHIPS AND BURSARIES.** There are a number of scholps. and bursaries tenable in the undergrad. facs. and a number of fellowships and assistantships in the grad fac. There are also loan funds available to students in upper yrs. Details of all these are given in the scholps announcement which the registrar's office will be glad to send to enquirers.

**STUDENT RESIDENCES.** I. In Montreal. Women: Royal Vic Coll., 555 Sherbrooke St. West, Montreal, P.Q. (tel. V1 4-6311) (327 students), \$765-\$910 p.a.; R.V.C. Annex, 1001-1009 Sherbrooke St. West, Montreal, P.Q. (tel. V1 4-0426) (49 students), \$725-\$895 p.a.; McLennan Hall, 3480 Ontario Ave., Montreal, P.Q. (tel. V1 2-0044) (34 students), \$450 p.a. Warden: Dr. Muriel V. Roscoe. Men: Douglas Hall, 3851 University St., Montreal, P.Q. (tel. V1 4-6311) (150 students); McConnell Hall, 3915 University St., Montreal, P.Q.; Melson Hall, 3925 University St., Montreal, P.Q.; and Gardner Hall, 3935 University St., Montreal, P.Q. (tel. V1 4-6311) (685 students). Bishop Mountain Hall, 3955 University St., Montreal, P.Q., provides dining facilities (\$725-\$835 p.a.). Warden: Dr. W. S. Reid. II. In Ste Anne de Bellevue, Macdonald Coll., almost completely residential, with special quarters for married students.

**STUDENT HEALTH.** An annual med. exam is required of every student. The univ. provides regular consulting service for all students and full med. and nursing services for men and women in residences. It also makes some contribution towards necessary hosp. expenses, and provides a student mental health service.

**ATHLETICS.** Opportunities are provided for taking part in the following sports. For men: Canadian football and English rugby football, association football, hockey, basket-ball, track, swimming, gymnastics, boxing, wrestling, fencing, ski-ing, tennis, badminton, squash, racquets. For women: gymnastics, dancing, badminton, swimming, volley-ball, basket-ball, tennis, archery, golf, ski-ing, skating.

**MILITARY TRAINING.** Univ. contingents prepare students for commissions in Canadian army (reserve), Canadian navy (reserve) and Canadian air force (reserve).

**EXTENSION WORK.** Extension courses in approx. 75 subjects are given in the afternoon and evgs. for residents of Montreal and vicinity. Some prepare students for special exams., such as are required by the various accountancy assocns. (leading to dipls. of CA, CPA, etc.), and the inst. and final exams. of the Chartered Inst. of Secretaries. A few may be counted for the degree of MEng or the dipl. in management and bus. admin. Rural extension work is carried on through Macdonald Coll.

**GRADUATES' SOCIETY,** 3618 University St., Montreal, P.Q. See also 'Admin and Other Staff', above.

**REPRESENTATIVE IN GREAT BRITAIN.** H. E. C. Rubes, BSc Oxon, c/o Canadian British Education Committee, 62 Trafalgar Square, London, W.C.2, England (tel.: Whitehall 5100).

**PUBLICATIONS (Free):** *Calendar* (Oct.); *General Announcement* (for intending students) (May); *Faculty and School Announcements* (May to Aug.); *Directory of Staff* (Feb.); *Annual Report* (Dec.); *McGill News*, quarterly, by graduates' soc.; *McGill Daily*, by students. *McGill and its Story, 1827-1927*, by Cyrus Macmillan (London, John Lane, 1927); *Toronto, Oxford Univ. Press, 1921, \$3*; *A Historical Sketch of the Medical Faculty and of the Origin of McGill Univ.*, by Dr. Maude Abbott, reprinted from *Montreal Medical Journal*, 1902; *Oldest McGill*, by E. A. Collard (Macmillan, 1926, \$2); *McGill Univ. at War, 1914-18, 1939-45*, by R. C. Featherstonhaugh (McGill Univ., 1947, \$3); *McGill - The Story of a University*, ed. by Assoc. Prof. H. MacLennan (Allen & Unwin, 1950).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Estate of Major G. Gordon Lewis, \$163,420 for univ. centre; estate of Isabella McLennan, \$364,351 for univ.

library, J. W. McConnell, \$71,550 to equip otolaryngological res. lab.; \$1,307,270 for new men's residence; \$600,000 for gen. bldg. pur-

poses, T H P & H de M Molsen, \$300,000 for new men's residences, estate of S Samuels, \$72,460 for 100 in med

## Statistics

## STUDENT NUMBERS, 1961-62

RETIREDMENTS Asst Prof A C Malloch (aguc. engin.), Assoc Prof L d'Hautserve (Romance langs.), Prof J U MacEwen (metall.), Prof C H Carruthers (classics)

REIGNATIONS Asst Prof C Goldman (civil engin.), Asst Prof G Visu (fine arts); Asst Prof A Joffe (maths), Asst Prof G A Vallée (classics), Asst Prof F Howitt (mech engin.), Assoc Prof E L Lomon (maths), Assoc Prof A C Ritchie (pathol.), Assoc Prof J Swettenham (mech engin.), Assoc Prof D Sheehy (archit.)

DEPARTS Prof C V Christie (elect. engin.), Prof O Messer (chem.), Prof N B. MacLean (appl. maths), Prof C Craig (civil engin.), Prof W Rose (German), Assoc. Prof K B Callard (econ.), Assoc. Prof H R Scott (zol.); Assoc. Prof T R Waugh (pathol.)

HONORARY DEGREES MA—E M Shilstone. LL.D.—W. A. Macdonald, former principal, Qu., A D P Heaney, Canadian ambassador to U.S., J E W Sterling, pres of Stan., F. Lacoste, ambassador of France to Canada, Lord Cobbold, former governor of Bank of England, H E Heraschew; J A M Karefa-Smart, minister of external affairs and defence, Sierra Leone, E A. Leslie, former pres of McGill Graduate Soc. DSc—C. N. H. Long, prof. of physiol., Yale. DCL—P E Corbett, prof. of foreign affairs, Virginia

	Full-Time	Partial	Extension & Summer
Men	5917	253	5613
Women	2945	395	2150
Total	8862	650	7763

Distribution by Faculties, etc. Agric., 255, arts & sci., 3667, dent., 139, div., 50, engin., 1360, grad studies, 1112, home econ., 106, law, 202, library sch., 56; med., 398, music, 51, nursing, 209, phys. & occupat. therapy, 142, soc. work, 102, teaching, 868, other courses, 165  
Total: 8862

Included in the figures above are —

Postgraduate students, 1112

New admissions, 2364.

Students from other countries, 1460 (Countries from which largest numbers came: U.S.A., 509, W. Indies, 217, Hong Kong, 165, U.K., 136).

DEGREES AWARDED (1960-61): BSc(P&OT), 4, BEd, 13, BLS, 44, BSc(Hlth), 28; BSc(Agr), 54, BEd(Ped), 16; BCom, 49, BArch, 16, BSc, 197; BN, 20, BMus, 2; BEng, 250 (chem., 22, civil, 71; elect., 84; engin. phys., 6, mech., 53, metall., 8, mining, 6); BD, 10, BA, 217, BCL, 44, DDS, 33, MD CM, 104, MLS, 1, MSc, 85, MArch, 2, MEng, 22, STM, 4, MSW, 22, MA, 56; MCL, 1, LL.M., 8, PhD, 73, MSc(Appl), 3

DIPLOMAS AWARDED (1960-61). Management & bus. admin., 34, elect. communications, 5; in sch. for grad. nurses, 60; in conservatorium of music (licentiate in music), 1, grad. dipl. in med., 29, in sch. of phys. & occupat. therapy, 33, cert. of grad. stud. in educ., 2; in mech. engin., 1, Macdonald Coll. dipl. agric., 12, handicrafts, 8.

# McMASTER UNIVERSITY

Founded 1887

Postal Address: Hamilton, Ontario, Canada  
Cables and Telegrams: McMaster University, Hamilton  
Telephone: Jn. 9-7101

CHANCELLOR—C. P. FELL, Hon. LL.D.

PRESIDENT AND VICE-CHANCELLOR, PRINCIPAL, HAMILTON COLLEGE—H. G. THODE, MBE, MSc PhD  
Chc, Hon LL.D Sask, Hon DSc Tor, B. Col & Acad, FRSc, FRSCan, FCIC

VICE-PRESIDENT—

PRINCIPAL, UNIVERSITY COLLEGE—Professor E. T. SALMON, BA Syd, MA PhD Camb, Hon FRSCan, FRAHMS

DEANS—ARTS—Professor A. W. PATRICK, MA Mount, DUParis (Romance Langs), ENGINEERING—  
Professor J. W. HODGINS, BSc PhD Tor, FCIC (Chem Engin), GRADUATE STUDIES—Professor  
H. E. DOCKWORTH, BA BSc Mount, PhD Chc, FRSCan (Phys), SCIENCE—Professor R. P.  
GHUAM, MA Qw., AM PhD Col., FCIC (Chem); THEOLOGY—Rev. N. H. PARKER, BS Literature,  
ThD S Baptist Theol Sem., Hon DD Acad

DIRECTOR OF EDUCATIONAL SERVICES, EXTENSION AND SUMMER SESSION—W. J. McCALLION, MA

BUSINESS ADMINISTRATOR—D. M. HIDDEN, BSc

REGISTERAR AND SECRETARY TO THE SENATE—C. W. H. LANTON, BA

ASSISTANT TO THE PRESIDENT AND SECRETARY TO THE BOARD OF GOVERNORS—W. N. PATTERSON, BA

LIBRARIAN—Margot H. C. McILBRID, MALS Mich, BA

## TEACHING STAFF

(\*—also member of Fac of Grad Studies, †—Part-Time, §—also member of Fac. of Engin.)

Anthropology, see Geog

Biology

\*Kleerehmer, H., MA PhD Mich., (Zool.) Prof.  
DSc Fests (Zool.) Prof.  
\*Radford, N. W., MA Tor, PhD Glas, (Bot.) Prof., Chairman of Dept  
FRSCan (Bot.) Prof.  
Miller, J. J., BA PhD Tor. (Bot.) Prof.  
\*Nace, P. F., MA Col, PhD NY (Zool.) Prof.  
MacClement, W. D., CD, BA Qw., (Bot.) Assoc. Prof.  
PhD Camb. (Bot.) Assoc. Prof.  
Davies, D. M., BA PhD Tor. (Zool.) Assoc. Prof.  
Threlkeld, S. F. H., MSc Alta, PhD Camb. (Bot.) Sp. Lectr.  
Asst. Prof.  
Laking, L., BSA Tor. (Bot.) Sp. Lectr.  
‡ Postdoctorate Fellow

Chemistry

\*Thode, H. G., MBE, MSc Hon LL.D Sask, PhD Chc, Hon DSc Tor, Br. Col & Acad, FRSc, FRSCan, FCIC  
Vice-Chancellor, Principal of Hamilton College, Prof  
\*Graham, R. P., MA Qw., AM PhD Col., FCIC Prof.

\*Bourne, A. N., BSc Acad., PhD McG., FCIC Prof.  
\*Tomlinson, R. H., BSc Bishop's, PhD McG. Prof  
\*MacLenn, D. B., BSc Acad, PhD McG. Prof  
\*Gillespie, R. J., PhD DSc Lond. Prof., Chairman of Dept  
\*Spenser, I. D., BSc Burn., PhD Lond, FRIC, FCIC Assoc. Prof.  
\*King, G. W., BSc PhD Lond. Assoc. Prof.  
Calvo, C., BS PhD Rutgers Asst. Prof.  
Warkentin, J., MSc Mount, PhD Iowa Asst. Prof.  
McCalla, D. R., BSc Alta, MSc Sask, PhD Col. Tech. Asst. Prof.  
Macfarlane, R. D., BA Buffalo, MS PhD Converse Tech. Asst. Prof.  
Martin, P. M., BSc Burn, PhD Lond. Asst. Prof.  
‡ Postdoctorate Fellows

Classics

\*McKay, A. G., BA Tor, MA Yale, AM PhD Prin Prof., Chairman of Dept.  
Tracy, H. L., BA Tor, PhD Chc. Visiting Prof.

‡ Members of the Association of Universities of the British Commonwealth





**Nuclear Medicine**

Jaimes, C. II, MD *Tor.*, FRCPCan, FACP } Prof.

**Nursing Education**

Reid, Alma E., BA *Tor.* Assoc. Prof., Dir  
Alderson, Henrietta J., MSc *Cal* Asst. Prof.  
Greenway, Florence L., BN *McG*,  
MS *Wayne* Asst. Prof.  
Ward, Hazel A., BSc MA *Cal* Lectr.  
Kutschke, Myrtle A., BScN *W Tor* Lectr.  
Sibelin, Mrs. Kara, BSc *Dneprop.*, MSc  
Fawcett, Miss J. Mary, BScN } Sp Lectr  
Sp Lectr

**Philosophy**

Dulmage, H. A., PhD *Cal.*, BA BD  
Assoc. Prof., Chairman of Dept.  
\*Noron, J. H., MA *Qu*, PhD *Edin* Asst. Prof.  
Mayes, J. R. A., MA *Reck*, PhD *Essex*,  
BA Lectr.  
Thomas, J. E., MA *Duke*, BA BD Lectr.  
Newell, W. M., BA *Delaware* Lectr.

**Physical Education**

Wynne, I., MSc(Ed) *Sp.*, BA Prof., Hd of Dept.  
Smith, A. J., BSA *Tor* Assoc. Prof.  
Prince, L. A. Asst. Prof.  
Hall, Rose, BPHE *Tor.* Asst. Prof.  
O'Reilly, Mrs. Evelyn S., BSc(PhysEd)  
McG Sp. Lectr.  
Wallingford, R. R., BS *Mich.*, BPE Sp Lectr.  
Hopmans, C. C., MD *Tor*, FRCSCan Sp Lectr.  
Vernon, Mrs. Gwen-Anne, BPHE *Tor* Sp Lectr.

**Physics**

McLay, A. B., CD, MA PhD *Tor*, BA,  
FRSCan Prof.  
\*Duckworth, H. E., BA BSc *Mount*,  
PhD *Cal.*, FRSCan Prof.  
\*Johns, M. W., PhD *Tor.*, MA, FRSCan  
Prof., Chairman of Dept.  
\*Preston, M. A., MA *Tor.*, PhD *Birm.*,  
FRSCan Prof.  
Brockhouse, B. N., BA *Br Col.*, MA  
PhD *Tor.* Prof.  
\*Summers-Gill, R. G., MA *Sask.*,  
PhD *Calif.* Assoc. Prof.  
Kennett, T. J., MSc PhD Assoc. Prof.  
McMullen, C. C., MSc PhD Assoc. Prof.  
\*Vosko, S. H., BEng(Phys) MSc *Connaught*  
Tech Assoc. Prof.  
Brown, I. D., BSc PhD *Leid.* Asst. Prof.  
Deters, W. R., PhD *Wis.*, MSc Asst. Prof.  
Schneider, D. O., MA *Sask.*, PhD *Tor.* Asst. Prof.  
Sprung, D. W. L., BA *Tor.*, PhD *Birm.* Asst. Prof.

3 Postdoctorate Fellows

**Political Economy**

Graham, J. E. L., MA BLitt *Oxon.*,  
BA *Tor* Prof.

McIvor, R. C., BA *W Ont.*, MA  
PhD *Cal.* Prof., Chairman of Dept.  
\*Pottin, C. C., BSc(Com) *So G Wisc.*  
MCom PhD *McG* Assoc. Prof.  
\*Thompson, R. W., BA *Tor*, MA *Qu*,  
PhD *Leid.* Assoc. Prof.  
Hunter, W. D. G., BA *Oxon.*, MA *Edin* Assoc. Prof.  
Novak, D., BA *Tor* Asst. Prof.  
Krauss, J. E., MA *Qu*, PhD *Leid.* Asst. Prof.  
Latvick, I., BCom *McG*, MSc *Cal* Asst. Prof.  
Johnson, J. A., BA *Durham*, MA *Mount* Lectr.  
Little, J. M., BA *Mount*, MA *Tor* Sessl. Lectr.  
Mohan, J., MA *Agia* Sessl. Lectr.  
Soule, H., BA } Sp Lectr  
Dixon, H. C., BCom *Tor.*, FCA } Sp Lectr

**Psychology**

\*Newbagg, P. L., BA *Sask.*, MA *Tor.*,  
PhD *Leid.* Assoc. Prof., Chairman of Dept.  
\*Kamun, L. J., MA PhD *Harc.* Assoc. Prof.  
\*Heaton, B. R. W., MA PhD *McG* Assoc. Prof.  
Black, A. H., BA *Tor.*, AM PhD *Harc.* Assoc. Prof.  
Carment, D. W., BA *Sask.*, MA PhD *Tor* Asst. Prof.  
Wardwell, Elinor S., BS *Tyfts*, PhD *Con.* Asst. Prof.  
Moulson, G. R., MSc *McG*,  
PhD *Brown* Sp Lectr.

**Religion**

Clifford, P. R., MA *Oxon.* Assoc. Prof., Chairman of Dept.  
Grant, G. P., BA *Qu*, DPhil *Oxon* Prof.  
Combs, A. E., BA *Trin (Trent)*,  
BD *U T S (N Y)* Lectr.  
Forsman, R. E., BA Sp Lectr.

**Romance Languages**

Patrick, A. W., MA *Mount*, DU *Paris* Prof.  
\*Freeman, H. A., BA *Sask.*, MA *Tor* (French) Prof.  
\*Stock, Marie, BA *Qu.*, MA *McG.*,  
PhD *Cal* (French) Assoc. Prof., Chairman of Dept.  
Conlon, P. M., MA *N Z*, DU *Paris* (French) Assoc. Prof.  
Hampel, L. E., MA *Tor.* (Spanish) Asst. Prof.  
Peterson, H., MA PhD *Tor.* (Spanish) Asst. Prof.  
Laureon, G., L&L *Mount*, Duph' *Et Sup Paris* (French) Asst. Prof.  
Gonzalez Martin, J. P., LicDer *Osniede* (Spanish) Lectr.  
Garoud, C. M. J., L&L *Poitiers* Lectr.  
Walker, E. A., MA *Tor.* (French) Lectr.  
Holden, Anita J., BA *Leid.* Sessl. Lectr.

**Russian**

Shein, L. J., BA *Dubugue*, MA PhD *Tor.* Assoc. Prof., Chairman of Dept.

Nicholson, J. G., MA *Canb*  
Jones, D. J., MA *Canb*

Asst. Prof.  
Lectr.

Gadamer, E. O., MA PhD *Tor*  
(E. Analysis) Asst. Prof.  
Rueger, N. F., MEngSc *Heib*, PhD *Notz*  
Asst. Prof.

### Sociology

Jones, F. E., MA *McG*, PhD *Harv*  
Assoc. Prof., Chairman of Dept.  
\*Vallee, F. G., BA *McG*, PhD *Leid*,  
FRAI, Assoc. Prof.  
Crook, R. K. N., BA *Leid*, AM *Pym*  
Asst. Prof.  
Ames, M. McL., BA *Br Col*, PhD *Harv*  
Asst. Prof.  
Vaa, E. W., MA *McG*  
Lectr.

### Zoology, see Biol

## ENGINEERING

### Chemical Engineering

Hodgins, J. W., BAsC PhD *Tor*, FCIC Prof.  
Johnson, A. I., BAsC PhD *Tor*,  
MChE *Brocklyn Polytech*  
Prof., Chairman of Dept.  
Crown, C. M., BEng *McG*, PhD *Canb*  
Asst. Prof.  
\*Hoffman, T. W., MSc *Q'n*, PhD *McG*  
Asst. Prof.  
Tory, E. M., BSc *Alta*, PhD *Purdue* Asst. Prof.  
2 Postdoctorate Fellows

### Civil Engineering and Engineering Mechanics

Quavas, G., MScEng MScEngMech  
PhD *Mich* Assoc. Prof., Chairman of Dept.  
\*Robinson, H., BSc PhD *Dalh* Asst. Prof.  
Wilson, N. E., MA MAI *Dalh*,  
SM *Harv* Asst. Prof.  
Murphy, K. L., BAsC *Tor*, BSc  
PhD *Wisc* Asst. Prof.  
Sutinger, K. H., BSc(Eng) PhD *Leid* Prof.

### Electrical Engineering

Gladwin, A. S., DSc *Glas*, PhD *Leid*  
Prof., Chairman of Dept.  
\*Campbell, C. K., BSc PhD *St. And*,  
SM *MIT* Asst. Prof.  
Hoolboom, G. J., MA *T H Delft* Asst. Prof.  
Atherton, D. P., BEng *Sheff* Asst. Prof.  
Gunn, M. W., BSc *Q'n*, MSc *McG* Asst. Prof.

### Mechanical Engineering

Huber, D. G., MAsC *Tor*, PhD *Leid*  
Prof., Chairman of Dept.  
Siddall, J. N., BSc *Sask*, SM *MIT*,  
Assoc. Prof.  
\*Wade, J. H. T., MAsC PhD *Tor*, Assoc. Prof.  
Newcombe, W. R., BSc *McG*,  
ME *N S T.C.* Asst. Prof.

### Metallurgical Engineering

\*Petch, H. E., PhD *Br Col*, MSc Prof.  
\*Kirkaldy, J. S., MAsC *Br Col*, PhD *McG*  
Assoc. Prof., Chairman of Dept.  
Smeltzer, W. W., BSc *Q'n*, PhD *Tor*  
Assoc. Prof.  
Ward, R. G., MA PhD *Canb*  
Steel Co. of Canada Chair, Assoc. Prof.  
Ives, M. B., BSc PhD *Brist* Asst. Prof.  
Ham, R. K., BAsC *Tor*, PhD *Buw* Asst. Prof.  
6 Postdoctorate Fellows

### Nuclear Engineering

Keech, G. L., BAsC *Tor*, MSc PhD  
Assoc. Prof.

## GRADUATE STUDIES

For members of Fac., see Teaching Staff  
marked \* under separate subjects.

## THEOLOGY

### Church History

Albaugh, G. P., AB *Ohio State*, BD *Calgate*-  
*Rech*. Assoc. Prof.

### Hebrew and Old Testament Interpretation

\*Parker, Rev. N. H., BS *Mississippi*, ThD  
*S. Baptist Theol Sem.*, Hon. DD *Acad.* Prof.

### Leadership Training

Tupper, Lois A., BA *Bed Sark*, MA *Col*.  
(Religious Educn.) Asst. Prof., Dir. of  
Sch.  
Bates, Mrs. Marion, Hon. DCL *Acad*, BA  
(Practical Nursing) Sp. Lectr.

### Missions and Religious Education

Kitchen, L. C., PhD *Hartford Sem.*, MA  
Assoc. Prof., Dir. of Field Work for Div.  
Students

### New Testament Interpretation

Lang, H. W., STM *U.T.S (N.Y.)*,  
Hon. DD *Acad*, MA *BD* Prof.

### Theology

Aldwinckle, R. F., BA *Leid*, MA *Oxon*,  
DTh *Star* Prof.  
Harrop, G. G., PhD *Chic.*, BA *BD*  
(Bib. Studies) Assoc. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Dir of Res. H. E. Petch, PhD *Br. Col.*, MSc.  
Dean of Women Mrs. Marion Bates, Hon.  
DCL *Acad.*, BA, Dean of Men P. R. Clifford,  
MA *Oxon.*, Du. of Nursing Educn. Alma E.  
Reed, BA *Tor.*, Du. of Student Personnel Ser-  
vices J. E. Andoff, BA, Assoc. Du. of Exten-  
sion P. D. Smith, BA *Bum.*, Asst. Librarian  
Dorothy L. Davidson, BLS *Tor.*, MA, Reference  
and Circulation Librarian, Alexis J. Jamieson,  
BA BLS *McG.*, Asst. Registrar, Miss Sheila  
Scott, BA *W. Ont.*, D. T. Arkett, BSc *Qw.*, Asst.  
Dir. of Extension F. Vernon, BSc *MED. Tor.*,  
B. E. Hicks, BCom *Tor.*, CA, Personnel Officer;  
C. H. M. Vinnels, Bookstore Manager, P. W.  
Hasebalin, BA, Supt. of Bldgs. & Grounds;  
E. T. Clarke, Planning Supervisor, T. Kilanka,  
BA, Dir. of Alumni Activities, D. W. Allaby,

BA, Chief Accountant, E. C. Matthews, CA,  
Internal Auditor, I. D. Gosd, BA, CA, Du.  
of Musc., F. Thorolfson, ATCM *Tor.*, MusM  
*Chc. Mus. Coll.*, Warden, Wentworth House,  
J. A. Becker, BASc *Tor.*, Exec. Asst. to Dean of  
Grad. Studies, M. Zuck, MA, Armed Forces  
Co-ordinator, Lt.-Commander E. G. Broome,  
Univ. Naval Trg. Div. CO, Lt.-Commander  
J. A. Jamieson, Resident Staff Officer, Lt.-  
Commander E. G. Broome, Canadian Officers  
Trg. Corps CO, Major D. Whitford, Resi-  
dent Staff Officer (Army), Capt. E. A. Clunker,  
BA, Adjutant, Capt. J. E. Kessell, Univ. Re-  
serve Trg. Plan, RCAF CO, Sqn. Ldr.  
F. N. Sharpe, CD, Trg. Officer, Fl. Lt. C. K.  
Campbell, Fl. Lt. B. E. Hasebalin, Resident Staff  
Officer, Fl. Lt. C. P. Muir.

## AFFILIATED THEOLOGICAL COLLEGE

McMASTER DIVINITY COLLEGE (Baptist),  
McMaster Univ. (tel. Ja. 9-7101) Principal—  
Rev. N. H. Parker, BS *Mississippi*, ThD  
*S. Baptist Theol. Sem.*, Hon. DD *Acad.*, McMaster  
Divinity Coll. is the historical continuation of  
what was known for 70 yrs. as the fac. of theol. of  
McMaster Univ. or as the McMaster Univ. div.  
sch. An act to incorporate McMaster Divinity  
Coll. (1957) created a new corporation, as a  
separate foundation, with a bd. of trustees and a  
senate. The div. coll. operates in affiliation with  
the univ., and its grads. receive the BD degree  
from the univ. Its academic and honorary degrees  
are awarded by the univ., but it grants certs. and  
dipls. on its own authority. The Baptist hist.  
colln. of books, documents and assoc. minutes,  
which forms a valuable record of Canadian  
Baptist hist., past and present, is housed in the  
div. coll. bldg. At present the staff of the div.  
coll. and the staff of the univ.'s fac. of theol. (see  
above) are almost the same, and the principal  
of the div. coll. is also the dean of theol. The  
Women's Leadership Training Sch., sponsored  
by the Baptist Women's Missionary Soc. of the  
Baptist Convention of Ontario and Quebec, is

affiliated with the div. coll. and is under the direc-  
tion of Lois A. Tuppes, BA *Bed. Sask.*, MA *Col.*  
[Teaching Staff of Divinity College (=Part  
Time)] CHRISTIAN PRACTICE—M. J. S. Foid, MA  
Col., BD, Sessl. Lectr. CHURCH HIST.—G. P.  
Albough, AB *Que. State*, BD *Calgary-Rock*,  
Assoc. Prof. HISTORY & CIVILIZATION—  
Rev. N. H. Parker, BS *Mississippi*, ThD *S. Baptist  
Theol. Sem.*, Hon. DD *Acad.*, Prof. LITERATURE  
AND—Lois A. Tuppes, BA *Bed. Sask.*, MA *Col.*,  
Asst. Prof., Dir. of Sch.; Muriel Israel, BA  
*Acad.*, MA *Harford*, Lectr., Asst. Du. of Sch.,  
Miss Marion Bates, Hon. DCL *Acad.*, BA, [Sp.  
Lectr., Dean of Women] MISSIONS & RELIGIOUS  
EDUC.—L. C. Kitchen, PhD *Harford Sem.*, MA,  
Assoc. Prof., Dir. of Field Work for Div. Students  
INT. INTERPRETATION—H. W. Lang, STM  
*U. T. S. (N. Y.)*, Hon. DD *Acad.*, MA *BD*, Prof.  
PASTORAL COUNSELLING—A. J. MacLachlan, STM  
*Andover Newton*, MA *Harv.*, BA *BD*, [Sp. Lectr.  
PRACTICAL THEOL.—L. C. Morgan, BA *BD*, Asst.  
Prof. SPIRITUALITY—A. R. Poynter, BA *BD*, [Sessl.  
Lectr. THEOL.—R. F. Aldwinckle, BA *Leeds*,  
MA *Oxon.*, DTh *Star.*, Prof.; G. G. Harrop,  
PhD *Chc.*, BA *BD*, Assoc. Prof.]

## GENERAL INFORMATION

McMaster Univ., named after senator William  
McMaster (1811-87), whose will provided its  
original endowment, operates under the terms of  
an act of incorporation granted by the legislative  
assembly of Ontario in 1887 and basically revised  
in 1957. The univ., which is now a non-  
denominational private foundation, was a non-  
denominational foundation from 1887 to 1957, its  
governance elected by the Baptist Convention of  
Ontario and Quebec. It was the outgrowth of  
educnl. work begun in Canada Baptist Coll.,  
Montreal (1838), and centred in Woodstock, On-

tario (1847), and of the theol. work of Toronto  
Baptist Coll. (1881-87). Toronto Baptist Coll.  
and Woodstock Coll. formed the nucleus of the  
univ. in 1887. Until 1926, Woodstock Coll.  
was centred as a preparatory sch. for boys, and  
from 1887 to 1954 a preparatory sch. for girls,  
Moulton Coll., was maintained in Toronto.

The univ. was transferred to Hamilton in 1930.  
In 1948, it was reorganized into three colls.: the  
Divinity Sch., which was the fac. of theol.,  
operating mainly on a postgrad. basis; University  
Coll. (the arts depts.); and Hamilton Coll. (the

sci. depts.), the latter operating under its own bd. of governors as an affiliated coll. In 1957, the Baptist Convention withdrew from legal control of the univ., the univ. and Hamilton Coll. becoming one corporation. McMaster Divinity Coll. was at the same time incorporated as an affiliated theol. coll. under a bd. of trustees, univ. lands being assigned for its use.

Hamilton (pop. 340,000) is situated on Lake Ontario and is the gateway to the Niagara Peninsula. It is the 2nd largest city in Ontario (5th largest in Can.) and the industrial centre of Canada, containing 738 industries and the largest inland port on the Great Lakes Seaway.

**CONSTITUTION.** The univ. corporation consists of a bd. of governors of from 30 to 41 members, up to 28 being elected by the bd., 3 (the chancellor, pres. and vice-pres.) being ex-officio members, 3 elected by the trustees of McMaster Divinity Coll., 3 by the grads and 2 by the teaching staff. Academic work is controlled by a senate, composed of reps. of the fac., governors and grads. The following are ex-officio members of the senate: pres. (chancellor), vice-pres., principal of Univ. Coll., dean of theol., dean of arts, dean of sci., dean of grad. studies, dean of engin., assoc. dean of arts & sci., dir. of educat. services and extension.

**INCOME (1960-61).** Total income, \$4,092,900 (endowment, \$134,800; govt. grants provincial, \$900,000, federal, \$500,800, municipal, \$132,800, other, \$49,000, 108 funds, \$676,500, fees, \$1,049,700; sundries, \$90,700, ancillary enterprises, \$358,600).

**FACULTIES AND DEANS, see p. 242**

**UNIVERSITY PRECINCT.** The univ. occupies about 100 acres in the west end of Hamilton, its lands being bordered by tracts of parkland forming part of the extensive acreage of the Royal Botanical Gardens.

**LIBRARY.** 138,375 vols. The Mills memorial library is the gift of the Mills foundation of Montclair, New Jersey. Four floors provide for a capacity of over 120,000 vols., as well as reference reading room, bibliog. rooms, and fine arts collection of books, slides, prints, etc. The library is a depository for atomic energy publications of Canada and U.S.A. The library also maintains a sci. library in phys. sci. bldg.

**LABORATORIES.** Res. labs. are maintained in most sci. & engin. depts., usually in academic bldgs. adjacent to undergrad labs. Research greenhouse. Res. programmes are under way in all major fields of sci. **NUCLEAR REACTOR,** housed in its own bldg., operates at one megawatt and is of swimming pool type, using highly enriched  $U^{235}$  as fuel. Associated with reactor is nuclear res. bldg., containing a hot lab. and several radio-isotope labs. as well as specially air-conditioned rooms for series of mass spectrometers.

Chairman of reactor operational control cttee.—D. M. Hadden, BSc. Reactor staff: W. H. Fleming, MSc PhD (supt.); K. Fritze, PhD (res.

chemist); J. B. McDonagall, BSc (supervisor); C. C. McMullen, MSc PhD (res. physicist); R. H. Tomlinson, BSc Bishop's, PhD M.C.G. (health physicist); D. Whiteford (asst. health physicist).

**ADMISSION.** See Appendix III

**FIRST DEGREE.** 3 or 4 yrs. (from art. metric)—BA ord., BSc ord., 4 yrs. (from sr. metric)—BA hon., BSc hon., BCom hon., BEag, BScN. BA hon. may be taken in classics, econ., econ. & maths., econ. & pol., Engl. lang. & lit., Engl. & French, Engl. & German, Engl. & hist., Engl. & philos., French & fine arts, French & German, French & Spanish, geog., hist., hist. & econ., hist. & pol., Latin & Engl., Latin & French, Latin & Greek, philos., philos. & hist., psychol., psychol. & biol., sociol., sociol. & psychol. BSc hon. may be taken in appl. maths. & theor. phys., biol., biochem., chem., geol., geol. & chem., maths., metall. sci., phys., phys. & chem. BEag may be taken in chem., civil, electr., mech., metall. engin. and in engin. phys. All engin. grads. have been granted accreditation by Ontario Assoc. of Professional Engineers. See also 'Dept. of Univ. Extensions', below.

**HONORARY DEGREES.** MA, 1 yr. min. after BA hon., can be taken in classics, Engl., geog., German, hist., philos., pol. econ., psychol., romance langs.; MSc, 1 yr. min. after BSc hon., can be taken in biol., chem., geol., maths., metall., phys., BD, 3-yr. course after BA; MBA, 1 or 2 curriculum yrs. depending on 1st degree, evg. courses only, BPE, 1 yr. min. after BA, BSc, BCom or BScN; MEng, 1 yr. min. after BEag, in chem., civil, electr., mech. or metall. engin. PhD, 3 yrs. min. after BSc, can be taken in biol., chem., geochem., phys., maths., metall. or, after BA hon., in psychol. or, after BEag, in chem. engin. and metall. engin.

**HONORARY DEGREES.** LL.D., LL.M., DSc, DD. The univ. does not award EXTERNAL DEGREES.

**CERTIFICATES.** Div. sch., 3-yr. course (from sr. metric, 1 yr. arts and 2 yrs. theol.). Women's leadership trg. sch. in the div. sch., 2 yrs. (from jr. metric); 1 yr. from BA) selected arts and theol., preparatory to missionary and other religious work.

**STUDY LEAVE** for members of staff. No regular system, each appln. being considered on its merits, having regard to dept. needs. Leave with salary normally granted only if instr. has been awarded a fellowship or grant, and then every effort is made to accommodate him.

**FEES (annual).** Arts & sci., \$465, engin., \$550, nursing, \$350, theol., \$875. Fees (less cover tuition, lab., registration, library, exams, athletics, med. services, student organizations and accident insurance).

**ACADEMIC YEAR.** From Sept. to May, 2 terms. About 30 wks., 12 1st term, 18 2nd.

**SUMMER SESSION.** 6-wk. session from about July 3 to Aug. 15.

**DEPARTMENT OF UNIVERSITY EXTENSION.** Offers courses for BA and BPE degrees, in evg courses during winter session, at annual summer sch., and at special outside centres, also offers MBA degree in evg courses during winter session only; all three degrees can be taken entirely by evg courses. Accts courses leading to the designation Registered Industrial Accountant (of the Soc of Indust & Cost Accountants of Ont.), by evg courses, at outside centres, and by correspondence, indust management courses leading to the cert in indust management (of the Canadian Indust Management Asscn.), by evg courses and at outside centres, a wide range of non-credit courses, cultural and industrial. The dept. provides a lecture service operated in the interests of groups desiring speakers from among the fac. The *Univ Extension Calendar*, containing detailed information concerning both winter evg classes and summer sch., is publ. annually in Feb.

**FINANCIAL SCHOLARSHIPS** 2 Canadian schols., value \$2000 each; 1 Canadian scholp. for students outside prov of Ontario, \$1812, 6 Ontario schols., \$1812 each; 6 Ontario schols., \$1712 each, American Soc. for Metals (Ontario Chapter) scholp., \$100; B'Nai Brith scholp., \$150, Helen M. Currey scholp., \$1200, Dofnaco scholp., \$2400, Gen Motors scholp., \$800-\$8000, Hamilton Spectator scholp., \$2400, Inco scholp., \$2800; Juvv scholp., \$1812, Moulton Coll scholp., \$800, Union Carbide Canada scholp., \$2500, County of Brant Wm Memorial scholp., \$1000, E. C. Fox scholp., \$4800, Donald Frise Robertson Memorial scholp., \$100, I.O.D.E., Munic. Chapter of Hamilton, scholp., \$900, I.O.D.E., Prov Chapter of Ontario, scholp., \$1400, North Westworth Women's Inst scholp., \$175, Assocn of Professional Engineers scholp., \$500, O. G. Moffat Entrance scholp., \$2050, Ontario Professional Engineers Foundation for Educn. scholp., \$500, 30 gov't business schols., \$400 each.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** C. L. L. fellowship in chem., \$2000 (\$1200 for academic yr. plus \$800 for 4 summer mos.) plus grant for equipment and supplies for res. leading to PhD in chem. Dow Chemical of Canada fellowship, \$2000 (\$1200 for academic yr. plus \$800 for 4 summer mos.) plus grant for res. expenditures for res. in chem or chem origin. Shell Oil fellowship, \$1200 (\$1200 for academic yr. plus \$600 for 4 summer mos) for res. in chem, chem. engin., geol., mech. engin. or phys. 70 teaching fellowships in arts, \$1500 each. Grad. lcs. schols. in var., \$2400-\$3000 per calendar yr.

**GRADUATE ASSOCIATIONS.** The univ. has local alumni branches in various cities in Canada and U.S.A., run by volunteer officers who depend on the dir. of alumni activities at the univ. for guidance and programmes.

**RESIDENCE.** For men: Edwards Hall (tel. Centre House, Ja. 2-0884, North House, Ja. 2-0841, South House, Ja. 7-0671), has accomm. for about 100 students, Whidden Hall (tel. Ja. 8-0201) has accomm. for 207 students. For women: Wallingford Hall (tel. Ja. 2-6819) and Moulton Hall (tel. Ja. 9-1143), accomm. in all 233 students. Rates \$625 per session.

**MILITARY TRAINING.** The univ. naval trg. division offers a programme for training of potential officers in the R.C.N. and the R.C.N. (R.). The univ. contingent Canadian officers' training corps qualifies selected univ. undergrads for a commission, on graduation, in the Canadian army. Membership in the univ. air squadron, primary reserve, is open to all students who have enrolled in the univ. reserve trg. plan or the regular officers trg. plan, R.C.A.F.

**STUDENT PERSONNEL SERVICES** assist the student to solve his own educn., vocational and personal problems, and to find part-time summer and full-time employment in accordance with his interests, needs and qualifs.

**UNIVERSITY STUDENT HEALTH SERVICE.** Each new student given complete physical exam. on entrance, warned of special precautions which should be taken to guard against sickness, and advised as to his ability to take part in athletics, etc. Throughout the session the univ. doctor holds daily office hours, when any students may consult him. Grad. nurses are on duty throughout the academic yr. The univ. maintains 2 infirmaries, 1 for men and 1 for women. Cases requiring hospitalization are cared for in the infirmaries up to 3 days free. After that, an infirmity charge is made. Certain participation in physical trg. required of 1st-yr. students.

**ATHLETICS.** Opportunities for rugby, soccer, tennis, track, harrier, golf, basket-ball, swimming, skating, hockey, badminton, fencing.

**PUBLICATIONS.** *President's Report*; *Report of the bd. of trustees and the senate of the divinity coll. to the Baptist Convention of Ontario and Quebec* (publ. in the *Year Book of the Baptist Convention of Ontario and Quebec*), *Calendars*; *Bulletins* of the dept. of univ. extension; *McMaster Alumni News*; *A Handbook and Directory* (Ott.). Undergrad.: *The Muse* (quarterly); *Silhouette* (weekly); *Manusor* (annually).

**UNIVERSITY BOOKS ROOM.**

## THE YEAR 1961

**PRINCIPAL BENEFICATIONS.** Total value of all benefactions received, \$2,835,000.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. com-

pleted, Moulton Hall (women's res.), Whidden Hall (men's res.), Wentworth House (student centre); phys. sci. bldg.; library extn.; lecture theatre.

RETIREMENTS Prof G. P. Gilman, Prof A. P. Martin (German).

RESIGNATIONS W. D. Huyduc (phys. educn.); May A. Watanabe (nursing); Dr C. F. Mate (phys.).

HONORARY DEGREES LL.D.—R. F. Legget, dir, div of bldg res, Nat Res Council, J. N. Allan, treasurer, prov. of Ont.; R. H. King, dir, of educn, Scarborough bd of educn, Toronto, K. F. Tupper, pres, Ewbank & Partners (Canada) Ltd, Toronto. DLitt—A. S. P. Woodhouse, hd, dept of Engl, Univ Coll & sch of grad studies, Tor.

# Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1471	2127
Women	529	997
Total	2000	3124

Distribution by Faculties Arts & sci., 1508; engin., 213; div coll, 56; grad studies, 223  
Total 2000

Included in the figures above are —

Postgraduate students, 223

New admissions, 782

Students from other countries, 92 (Countries from which largest numbers came U.K., 20, India, 13, W Indies Fed., 11, U.S.A., 9, Africa, 9)

DEGREES AWARDED (1960-61). PhD, 11; MA, 12, MSc, 16, BD, 4, BPE, 42; BA hon., 29, BA, 238, BSc, 52, BCom, 7, BEng hon., 4, BEng, 19, BScN, 16

DIPLOMAS AWARDED (1960-61). Div, 2

CERTIFICATES AWARDED (1960-61) Theol, 6; women's leadership trg sch, 8



Forster, P W  
Austmann, Miss Raquel, BID  
Marshall, C G, BID  
de Rosa, G U, BArch H.K.  
Clark, R P A, MArch Harv.  
Baumann, Janice B, BFA(IntDes) Prair  
6 Assts

**Art**

Williams, R E, BA *Cum laude* Tech. Inst.  
MFA Iowa  
Richards, C C Prof, Dir  
Bjelayac, N, BS *Wisc State Coll* (Milwaukee), MS Wis  
Swinton, G, BA McG  
Bruce, R. D. Asst Prof.  
Byre, I K, BFA Asst Prof.  
Moulton, W D, BA *Kent State*, Lectr.  
MFA Iowa  
Ehanson, G., DipArt Lectr, Registrar

**Astronomy, see Maths****Biochemistry**

Hagen, P. B., MB BS Syd Prof, Hd of Dept.  
Delory, G E, MSc PhD Lond. Assoc. Prof.  
Klenberg, L., DDS Tor., PhD Durb.  
Lees, H., BSc Lond., PhD Lond. Assoc. Prof.  
Lanford, J H., PhD Lond., MSc Asst. Prof.  
Fraser, M. J., MSc Dal., PhD Camb Asst. Prof.  
Yamada, Esther W., MSc W.Ont.,  
PhD McG. Asst. Prof.  
Suderman, H J, MSc Asst. Prof.

**Botany**

Waygood, E R., MSc PhD Tor. Prof., Hd of Dept  
Isaac, P. K., DIC, PhD Lond. Assoc. Prof.  
Rutche, J. C., BSc PhD Sheff. Assoc. Prof.  
Walker, Jennifer, BSc Lond., MSc Lectr  
1 Res. Asst., 2 Res. Fellows

**Business Administration and Finance**

Harris, R. F., BCom MA Tor. Prof., Hd of Dept  
Gimmar, M J D., MA Acad. Assoc. Prof.  
Vaughn, J B., BCom Tor., CA Assoc. Prof.  
Mundst, I. D., MBA Ohio, BCom Asst. Prof.  
Caterina, R., BCom Tor., MBA N.Y.,  
CA Asst. Prof.  
Edwards, C H C., LLB Lond. Seel Lectr  
Tallin, C. K., QC, MA LLB Seel Lectr

**Chemistry**

Campbell, A N., DSc Aberd., MSc PhD Lond., FRIC, FRSCan, FCIC Prof, Hd of Dept  
Robinson, A D., MA Sask., PhD Minn.,  
FCIC Prof.  
Charlesworth, E H., MA Qn, DPhil Oxon.,  
FCIC Prof.

Funt, B. L., MSc Dal., PhD McG., FCIC Prof.  
Dunn, G E., BSc Acad., MA Tor.,  
PhD Iowa Prof.  
Baermann, W. J., BS St Louis, PhD Wisc. Assoc. Prof.  
Katzmark, Eleanor M., MSc PhD Assoc. Prof.  
Loudfoot, J. H., BSc Glar., PhD Asst. Prof.  
Gesser, H., PhD McG., BSc Loyola (Monsieul)  
Scheffer, T. P., DPhil Oxon., MSc Asst. Prof.  
Anderson, J A., MSc Alta, PhD Leeds, Asst. Prof.  
FCIC, FRSCan  
Rodevald, W., MSc Hon Lectr  
Bock, E., MSc PhD Lectr

**Classics**

Berry, E G., MA Qn, PhD Chic Prof, Hd of Dept  
Hugill, W. M., BA Tor., PhD Chic Prof  
Hymans, B L., PhD Utrecht Asst. Prof.  
Russell, J., MA Edu Lectr

**Economics and Sociology**

Waines, W J., MA Prof, Hd of Dept  
Barber, C. L., BA Sask., MA Clark, PhD Miss. Prof.  
Pentland, H C., MA Oregon, PhD Tor.,  
BA Assoc. Prof.  
Bellin, R. C., MA Tor., BA PhD Col. Assoc. Prof.  
Dallin, F. J. G., BA Tor., AM Harv. Asst. Prof.  
Charles, K. J., MA Madr., PhD McG. Asst. Prof.  
Johnson, W D H., BA Lond., MA Montr.,  
PhD Tor. Lectr  
Scandiff, M W., AB *Vassar* Lectr

**Education**

Brown, J M., BA McM., BEd Sask.,  
EdD Stan., MED Prof.  
Boyce, Eleanor, MA Hon LLD St.F.X.,  
PhD Assoc. Prof.  
Lucow, W H., MA Ott., PhD Miss. Assoc. Prof.  
BA Med. Assoc. Prof.  
Baker, Doris, BA Med. Assoc. Prof.  
Harley, J. K., MA St.And., EdM Harv. Assoc. Prof.  
Hedley, R. L., BA Med. Asst. Prof.  
Wilson, K., MA Sheff., BEd Asst. Prof.  
Uhlman, H J., MA Acad., MEd Tor.,  
PhD Alta Asst. Prof.  
12 Sp. Lectrs

**Engineering, Civil**

Ruddell, W. F., MSc, MEIC Prof., Hd of Dept.  
Macdonald, A E., MSc(CE) McG.,  
Hon DEng N S T C, MEIC Prof.  
Baracos, A., BSc MSc(CE) Alta. Assoc. Prof.  
Carlson, A. J., BSc Qn, MAsC Tor.,  
MEIC Assoc. Prof.  
Dutton, V L., MSc Penn State, BSc(CE)  
Assoc. Prof.



Kuiper, E., BSc(CE) *T.H. Delft*,  
MSc(CE) *M.I.T.*

Larson, A. G., MASE *B. Col.*, MLS  
Magill, E. S., BSc(CE), MEIC  
Munantz, O., BSc(CE) MSc, MEIC  
Full, C. G., BME *Villanova*, MSc

ME *Purdue*

Glavinke, J. L., MSc(CE) *Belf.*

Lazar, R., MSc(CE) *Ill.*, BSc(CE)

Beley, W. P., BSc(CE)

Clayton, G. L., BSc(CE)

Godfrey, T. W., MSc(CE)

Berwanger, C., BEng(CE) *McG.*,  
MSc *Que.*

Dallum, E., MSc(CE)

Mindera, M., MSc

Macris, G. A., MSc(CE)

16 Demers

### Engineering, Electrical

McMath, J. P. C., BSc(EE) *Alta.*, MEIC

Wicks, S. G., BSc(EE), MEIC

Haskansen, H. M., BSc(EE) *Que.*

Johnson, R. A., MSc(EE)

MacDermid, H. A., MSc(EE)

Budges, E., MSc(EE), MEIC

Shepherd, W., BSc(Eng) *Leeds*,  
MASE *Tor.*

Swift, G. W., MSc *Alta.*

Campbell, G. M., BSc(EE)

9 Demers

### Engineering, Mechanical

Chant, R. R., MEng(Mech) *McG.*, MEIC

Gawley, H. N., BSc(ME) *Sask.*, MEIC

Bennett, C. P., MSc *Bury*, BSc(ME),  
MEIC

Alexander, W. D., MSc(ME) *Alta.*,  
BSc(ME), MEIC

Cruik, D. W., MSc *Alta.*, BSc(ME)

Noeth, H. T., BSc(ME) *Que.*

Schilling, R. H., BSc(ME)

Yuell, G. K., MSc *Bury*

6 Demers

### English

Wheeler, A. L., BA *B. Col.*, MA *Tor.*,  
PhD *Wisc.*

Seunders, Doris B., BLet *Oxon.*,  
Hon. LL.D. *B. Col.*, MA

Stobus, W. G., MA *Tor.*

Brodeur, G. L., MA *Oxon.*

Duncan, T. A. W., MA

Dumont, G. H., MA *Cambr.*

Howarth, H., MA *Oxon.*

Tufts, J. O., MA *Bell.*

Robinson, J. M., MA *PhD Tor.*

Wondolov, J. C., MA *Tor.*, BA

Sanderson, R. J., MA

Warhaft, S., BA *PhD Northwestern*

Assoc. Prof.

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Asst. Prof.

Asst. Prof.

Cowie, V. S., BA

Anderson, L., BA

Gold, J., BA *Bury*, PhD *Wisc.*

Elhott, M. S., BA *Cambr.*

Hopple, R. P., MA *Syr.*

Kleiman, E. W., MA *Tor.*

Layman, L. M., BA *Middlebury*, MA *Mass.*

1 Grad. Asst.

### French

Jones, C. M., MA *Wales*, DU *Paris*

Jensen, C. A., BA *W. Ont.*, MA *Tor.*,  
PhD *Que.*

Richard, M. E. J., BA *Alta.*, Dipl. *École*  
*de Prép.*, *Paris*

Clark, C. N., MA *PhD Yale*

Denny, E., MA

Morantz, H. S., BSc, DU *Paris*, BA

Walters, R. L., BA *Oberlin*, PhD *Paris*

Joubert, A., L&L, Dipl. *École Sup. Paris*

Clark, J. E., Dipl. *École de Prép.*, *Paris*,  
BA

Gennart, A., L&L, Dipl. *École Sup. Rennes*

Gordon, A. L., MA *Alta.*

Padgett, G., BA *Nest.*

### Geography

Weir, T. R., BA *B. Col.*, MA *Syr.*,  
PhD *Wisc.*

Warkentin, J. H., BSc *MA Tor.*

Nieuwolt, S., PhD *Vancouver*

Dunlop, J. S., MA *Glas.*

### Geology and Mineralogy

Brownell, G. McL., PhD *Mass.*, MSc,  
FRSCan

Leith, E. I., MSc

Wilson, H. D. B., MS *PhD Cal Tech.*,  
BSc

Ferguson, R. B., MA *PhD Tor.*

Russell, G. A., EM *Mass.*, MSc *Que.*

Brabin, W. C., BSc(GE) *PhD*

### German

Maurer, K. W., PhD *Tübingen*

Cardinal, C. H., MA *McG.*, PhD *Tor.*

Doelken, V. G., MA

### History

Morton, W. L., MA *Blet Oxon.*, BA

Hon. LL.D., FRSCan

Glover, R., MA *Oxon.*, AM *PhD Harv.*,  
FRHistS

Oleson, T. J., PhD *Tor.*, MA

Webster, T. S., MA *Que.*

Yuzik, P., MA *Sask.*, PhD *Mass.*

McEwen, J. M., BA *Tor.*, MA *Mass.*,  
PhD *Leeds*

Mallett, M. E., MA *DPhil Oxon.*

Livingston, J. M., BA *Harv.*, PhD *Wisc.*

Asst. Prof.

Asst. Prof.

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Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

**Icelandic**

Bessason, H., CandPhil CandMng *Iceland*  
 Assoc. Prof.

**Interior Design, see Architect.****International Relations, see Pol. Sci.****Judaic Studies**

Schachter, Rabbi Z. M., MA *Boston* Assoc. Prof.  
 Susser, Mrs. Yael, BA *Jerusalem* Lectr.

**Law, see Affiliated Colls., below****Mathematical Physics**

Neuman, S. M., BSc PhD *McG*, MA *Tor* Prof.  
 Cosh, H. R., BA BSc *Mt. All.*, MSc *Dal.*,  
 MA PhD *Tor* Prof.  
 Darcych, G., BSc Lectr.

**Mathematics and Astronomy**

Lawson, J. W., PhD *Clac.*, MA  
 Prof., Hd. of Dept.  
 McEwen, W. H., MSc *Sask.*, MA PhD *Man.*  
 (Maths.) Prof.  
 Mendelsohn, N. S., MA PhD *Tor*,  
 FRSCan Prof.  
 Dalmage, A. L., MA PhD *Tor* Prof.  
 Noonan, B., MA *Tor*, PhD *McG* Assoc. Prof.  
 Moser, W., MA *Man.*, PhD *Tor*, BA  
 Assoc. Prof.  
 Zeiler, F., MSc *Alta.*, MA *Man.*, BSc  
 Assoc. Prof.

Swires, J., BSc PhD *Nott* Asst. Prof.  
 Lockhart, R. J., BA *W. Ont.* Asst. Prof.  
 Johnson, Diane, MSc PhD *Tor* Asst. Prof.  
 Dowling, R. J., MA *Man.* Asst. Prof.  
 Black, L. D., BSc Lectr.  
 Finlayson, H. C., MSc *Alta.* Lectr.  
 Muldrew, A. W., MA *BEd* Lectr.  
 Friesse, J., MA *Qu* Lectr.  
 Yagzan, A. M., MSc *Puab* Lectr.

**Medicine, see below****Microbiology**

Lees, H., BSc *Lav.*, PhD *Lond*  
 Prof., Hd. of Dept.  
 Campbell, N. E. R., BSA *Tor*, MSc PhD  
 Asst. Prof.  
 Hawtins, Roma, MSc PhD *McG*, BSc  
 Asst. Prof.  
 Sawall, B. D., MSc *Alta.*, PhD *Del.*,  
 DrNMSc *Zür.* Asst. Prof.  
 Alcan, M. I. H., MSc *Pau.*, PhD *Cern* Lectr.  
 Halverson, H., MSc PhD *McG* Lectr.

**Mineralogy, see Geol. and Mineral.****Music**

Gibson, R. W., MusB *Man.* Prof., Dir. of Sch.  
 Sampson, Peggie, MusBac *Edw.* Asst. Prof.

**Nursing Education**

Hart, Margaret E., BSc MA *Cal* Dir.  
 McLeod, Mona M., BSc MA *Cal* Instr.

**Pharmacy and Pharmaceutical Chemistry**

Murray, J. R., MSc *Alta.*, PhD *Ohio State*  
 Prof., Dir.  
 Steele, J. W., BSc PhD *Glas.* Asst. Prof.  
 Wensley, W. R., MSc(Pharm) *Tor* Asst. Prof.  
 Alexander, W. E. L., MSc(Pharm) *Sask* Asst. Prof.  
 Bulous, R., BSc(Pharm) Lectr.

**Philosophy**

Sibley, W. M., MA *Br. Col.*, PhD *Brown*  
 Prof., Hd.  
 Glasson, P., MA *Tor*, AM *Harv.* Assoc. Prof.  
 Huggitt, W. J., MA PhD *Tor* Asst. Prof.  
 Vincent, R. H., MA *Harv.*, BA Lectr.  
 Ruser, J. S., BA *Stein.*, MA *N. Car.* Lectr.

**Physical Education**

Kennedy, W. F. R., BPHE *Tor*, MA  
 EdD *Cal.* Prof., Dir.  
 Fraser, A. J., BSc(PE) *McG* Asst. Prof.  
 Hrenchuk, E. J., BPHE *Tor*, MA *Man.*  
 MacDiarmid, J., BPE *Br. Col.*, MA *Man.* Asst. Prof.  
 Jones, Magteta, BPE *Br. Col.* Lectr.  
 Skinner, Ruth, BA *BEd* Lectr.  
 Waddell, Heather A., BPE *Br. Col.* Lectr.

**Physics**

Whitmore, B. G., BSc *Lond.*, MA *Tor*,  
 PhD *Lep.* Prof., Hd. of Dept.  
 Connor, R. D., PhD *Edw.* Prof.  
 Roalston, K. I., BA MSc *Dalh.*, PhD Prof.  
 Kelly, F. M., MA PhD *Tor* Prof.  
 Douglas, D. G., MA *Sask.*, PhD *McG*,  
 Assoc. Prof.  
 Hogg, B. G., MA *Wesleyan*, PhD *McM.*,  
 BSc Assoc. Prof.  
 Scandil, S., MSc *Que.*, PhD Assoc. Prof.  
 Standing, K. G., AM PhD *Prin.*, BSc  
 Assoc. Prof.  
 Kettner, M. E., MA PhD *Man.*, BSc  
 Assoc. Prof.

MacDonald, P. A., MSc PhD Asst. Prof.  
 Cooke, I., BSc *Glas.*, PhD *Birm.* Asst. Prof.  
 Dahlstrom, C. E., MA *Sask.*, PhD *McG*  
 Asst. Prof.  
 Sen, S. K., PhD *Cal.* Asst. Prof.  
 Cothorn, C. R., BA *Man.*, MS *Yale* Lectr.

**Physiology, see Medicine, below****Polish, see Slavic Langs.****Political Economy, see Econ. and Sociol.****Political Science and International Relations**

Hiscocks, C. R., MA *Oxw.*, DPhil *Berl.*  
 Prof., Hd. of Dept.

Donnelly, M. S., BA *Mt All*, PhD *Tor*  
 Assoc. Prof.  
 Avakumova, I., MA *Leid*, DPhil *Oxon.*  
 Asst. Prof.  
 Hull, W. H. N., MA *W Ont*, PhD *Duke*  
 Asst. Prof.  
 Peterson, T. E., MA  
 Lectr.

### Psychology

Zubeck, J. P., BA *Br Col*, MA *Tor*,  
 PhD *Johns H.* Res. Prof.  
 Spanghett, B. M., MA *Alta.*, PhD *McG.*  
 Assoc. Prof.  
 Burns, Joyce H., MA *Tor*, BA  
 Asst. Prof.  
 McCormack, P. D., BA *Car*, MA *Delaware*,  
 PhD *Iowa* Asst. Prof.  
 Koppenaal, R. J., MA *Br Col*, PhD *McG*  
 Asst. Prof.  
 Wright, M. W., MA PhD *Tor*, BA  
 Asst. Prof.  
 Cooper, R. M., PhD *McG*, MA  
 Lectr.  
 Hughes, K. R., PhD *Chc*, MA  
 Lectr.

Russian, see *Slavic Langs*

### Slavic Languages

Rudnycky, J. B., PhD *Lwow*  
 Assoc. Prof., Chairman  
 Yuzik, P., MA *Sask*, PhD *Minn* Assoc. Prof.

### Social Work

Mann, Helen M., AM *Chc*, MA *McM.*  
 Prof., Dis.  
 Roger, Mayue, MA *Oxon.*, BA  
 DipSocSc *Tor* Assoc. Prof.  
 Robins, Marjorie M., BA DipSocWork *Tor*  
 Assoc. Prof.  
 Easterbrook, Mary A., MSS *Swth*, BA  
 DipSocWork Asst. Prof.  
 Hill, B., MSW *Tulane* Asst. Prof.  
 Cullham, Lottie, BA *Sask*, BSW *Br Col*,  
 MSW *Tor* Field Inst.  
 Lederer, Lottie, BA *W Ont*,  
 DipSocWork *Tor* Field Inst.  
 McArten, Mrs. Dorothy, BA *Sask*,  
 DipSocWork *Tor* Field Inst.  
 Woolley, Patricia, MS *Col*, BA BSW  
 Field Inst.  
 Penwarden, G., BA BSW AM *Chc* Field Inst.  
 Fortanier, B., BA *N Y State Coll*,  
 DipSocWork *Jerusalem*, MSc *Col*  
 Field Inst.  
 Robertson, Margaret, BA DipSocWork  
 Unit Supervisor  
 Sinclair, Mrs. Shelagh, BA DipSocWork  
 Instr.  
 Rogers, H., BA MSW  
 Instr.

Sociology, see *Econ. and Sociol.*

Statistics, see *Actuarial Maths.*

Ukrainian, see *Slavic Langs*

### Zoology

McLeod, J. A., MSc PhD DipEd  
 Prof., Hd. of Dept

Stewart-Hay, R. K., MSc  
 Houston, A. H., BSc *McM.*, MA  
 PhD *Br Col* Asst. Prof.  
 Lubansky, G. A., MB BS MSc *Kiev*,  
 PhD *McG* Asst. Prof.  
 Weyman, H., MSc PhD  
 Lectr.

## AGRICULTURE AND HOME ECONOMICS

Weir, J. R., BSA *Tor*, MSc *Alta.*,  
 PhD *Minn* Dean of Fac.

### Agricultural Economics and Farm Management

Sinclair, S., BSA MSc *Sask*, PhD *Minn*.  
 Prof., Hd. of Dept.  
 Gibson, J. C., PhD *Iowa State Agric*,  
 BSA MSc *Sask* Assoc. Prof.  
 Wood, A. W., BA BSA MSc *Sask*,  
 PhD *Stav.* Assoc. Prof.  
 Hallett, G., MA *Oxon* Assoc. Prof.  
 Anderson, G. R., BS *Wn.*, MS *Mich State*  
 Asst. Prof.  
 Yeh, M. H., BS *Taiwan*, MS *Mich State*,  
 PhD *Iowa State Agric* Asst. Prof.  
 Hudson, J. P., BSA Res. Assoc.  
 Ackerman, G. E., BS *Conn.*, MSc *Tor*,  
 PhD *Purdue* Res. Assoc.

### Agricultural Engineering

Lapp, H. M., BE *Sask*, MBEIC  
 Assoc. Prof., Hd. of Dept.  
 Dunier, K. W., BE MSc *Sask* Asst. Prof.  
 Hendrickson, M., BE *Sask* Lectr.  
 Tennenhouse, F., BSA  
 Lectr.

### Animal Science

Strangman, E. W., MSc *Alta*, PhD *Minn*  
 Prof., Hd. of Dept.  
 Hodgson, G. C., MS *Conn.*, BSA DipEd  
 Assoc. Prof.  
 Kondra, P. A., PhD *Minn*, BSA MSc  
 Assoc. Prof.  
 Seale, M. E., BSc *Alta*, MS *Minn* Assoc. Prof.  
 Strothers, S. C., BSA *Tor*, MS  
 PhD *Mich State* Assoc. Prof.  
 Roberts, W. K., BS *Calif. State Polytechnic*,  
 MS PhD *Wash State* Asst. Prof.  
 Sell, J. L., PhD *Iowa* Asst. Prof.  
 Isa, J. M., MSc DVM *Tor*.  
 Dh., Animal Pathol & Vet Lab  
 Phillips, G. D., BVSc BSc *Lw.* Asst. Prof.  
 Stanger, N. E., DVM *Tor*, BSA Asst. Prof.  
 Savage, A., BSA *McG*, DVM *Conn* Res. Assoc.

### Art

Allen, Lillian B., BA MS *Sy.* Assoc. Prof.  
 Dunfield, Elaine, BID Lectr.  
 Lindgren, Charlotte, BA *E Mich Coll*.  
 Lectr.

## Clothing and Textiles

Morton, Margaret I., MA <i>Tor</i> , BSc(HEC)	Asst Prof
Watson, Mrs Kathleen T., MS <i>Man.</i> , BSc(HEC)	Asst Prof
Crowley, Elizabeth M., BScEd <i>Pharm.</i> , MA <i>Mich State</i>	Asst Prof
Burgess, Katherine E., BSc <i>Alta</i>	Asst Prof
Grainger, Constance, BSc (HEC)	Lectr
Ostapovich, Annette, BSc <i>Sask</i> , MA <i>Mich State</i>	Lectr

## Dairy Science

Nesbitt, J. M., MSc Ohio State, PhD Penn. State, BSA	Prof, Hd of Dept.
McNaughton, C. H., BSA <i>Sask</i> , MSc	Asst Prof.

## Diploma Course

Lange, E. H., MSc <i>McG</i> , BSA	Assoc Prof, Dir
Tallen, R., BA LLB	Lectr

## Education

Watson, Mrs Kathleen T., MS <i>Man.</i> , BSc(HEC)	Asst Prof
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## Entomology

Thurstonson, A. J., PhD <i>Lond</i> , BSA	Prof, Hd. of Dept
Robinson, A. G., MC, MSc <i>McG</i> , BSA	Assoc Prof.
Hanes, W., BSA MSc PhD <i>McG</i> .	Asst Prof.
Jay, S. C., BA <i>McM</i> , MSA <i>Tor</i> , PhD <i>Lond</i> .	Asst Prof
Robertson, D. R., BSA <i>Tor</i> , MSc	Lectr

## Foods and Nutrition

Pensak, Mrs. Elizabeth, MS <i>Man.</i> , BSc(HEC)	Assoc. Prof
Smith, M. Louise, MS <i>Cal.</i> , BSc(HEC)	Asst Prof.
Weber, Shirley M., MS <i>Man.</i> , BSc(HEC)	Asst. Prof.
Baxter, Donna M., MS <i>Manitou</i> , BSc(HEC)	Asst. Prof.
Bolton, Mrs Dorothy M., BSc(HEC)	Lectr
Vasey, Marson, BSc(HEC) MSc <i>McG</i>	Lectr

## Home and Family Living

Davis, Leona M., MA <i>Tor</i> .	Prof ; Dir, Sch of Home Econ
Keith, Dorothy H., BA <i>Sask</i> , MEd <i>Tyln</i>	Asst Prof.
Halliday, Jean R., BSc(HEC) <i>MI All.</i> , MA <i>Mich State</i>	Asst. Prof

## Institutional Administration

Smith, M. Louise, MS <i>Cal.</i> , BSc(HEC)	Asst. Prof.
Rydeen, Anna, BSc(HEC)	Instr

## Plant Science

Shebesko, L. H. J., BSA MSc	Prof, Hd of Dept
Jenkins, B. C., BScAgr MSc <i>Alta</i> , PhD <i>Calif.</i> (Agron) Samuel Rosner Prof	
Peterson, R. F., MS PhD <i>Man.</i> , BSA	Hon. Prof
Johnson, T., BSc BSA <i>Sask</i> , MSc PhD <i>Man.</i> , FRSCan	Hon. Prof
Helgeson, S. B., MS PhD <i>Man.</i> , BSA	Prof
Ferguson, A. C., PhD <i>Man.</i> , BSA	Prof.
Gordon, W. L., BSc(Agric) MSc <i>McG</i> , PhD <i>Wn</i>	Hon Assoc Prof.
Hagborg, W. A. F., PhD <i>Tor.</i> , BSA	Hon Assoc Prof
Friesen, G., PhD <i>Wark State</i> , BSA MSc	Assoc Prof
Truscott, J. D., BA MSc <i>Sask</i> , PhD <i>Man.</i>	Assoc Prof
McGinnis, R. C., MSc <i>Alta</i> , PhD	Assoc Prof
Menzies, J. A., BSA	Asst. Prof.
Simons, L., BSA MSc	Asst. Prof.
Storgaard, Anna K., PhD <i>Penn State</i> , BSA MSc	Asst. Prof.
Campbell, J. D., BSA <i>Sask</i> , MSc <i>McG</i> , PhD <i>Mich State</i>	Asst. Prof
Walker, J., BSA <i>Alta</i> , MS <i>Man.</i>	Res Assoc
Stefansson, B. R., BSA MSc	Res Assoc
Peterson, E., BSc PhD <i>Man.</i> , BSA	Res Assoc
Convin, D. T., PhD <i>Purdue</i> , MSc	Res Assoc
La Croix, L. J., MSc <i>Sask</i> , PhD <i>Iowa</i>	Res Assoc
Chernick, Mrs Barbara, BSA MSc	Res Asst
Evans, L. E., BSA <i>Sask</i> , MSc PhD	Res Asst
Hougen, F. W., Chemling <i>T H Troughman</i> , PhD <i>Cape T</i>	Res. Chemist
Umanu, A. M., MSA PhD <i>Man.</i>	Res Chemist

## Soil Science

Hedlin, R. A., BSA <i>Sask</i> , MSc <i>Alta</i> , PhD <i>Wn</i>	Prof, Hd. of Dept
Zwarich, M. A., BA BSA MSc <i>Sask</i> , PhD <i>Rutgers</i>	Asst Prof.
Soper, R. J., BSA MSc <i>Sask</i> , PhD <i>McG</i>	Asst. Prof.
Ridley, A. O., BSA MSc	Lectr.
Ehlich, W. A., BSA MSc PhD <i>Man</i>	Se Pedologist
Racz, G. J., MSc <i>Sask</i>	Res Asst

## DENTISTRY

Brown, G. A., DDS BSD <i>Northwestern</i> (Restorative D) Prof., Hd. of Dept.	
Hagen, P. B., MB BS <i>Syd</i> (Biochem) Prof., Hd. of Dept	
Hart, H. W., DMD <i>Oregon</i> , FACD (Prosthodontol) Prof., Hd. of Dept	
Lederman, J. M., BSc <i>Sask</i> , MD, FRCPCan (Pathol) Prof., Hd. of Dept	
Neilson, J. W., BA <i>Sask</i> , MSc <i>Mich.</i> , DDS <i>Alta</i> , FACD (Oral Biol.) Prof., Hd. of Dept	

- Nickerson, M., MD *Utah*, AB *Longfield*,  
ScM *Boston*, PhD *Yale* H  
(Pharmacol. & Therapeutics) Prof., Hd  
of Dept
- Schrenk, W. R., DDS *Miss.*,  
MSD *Northwestern* (Oral Biol.) Prof.
- Sisler, G. C., MD, FRCPCan  
(Psychiatry) Prof., Hd. of Dept
- Thompson, I. M., BSc MB ChB *Edin.*,  
FRSCan (Anat.) Prof., Hd. of Dept
- Witt, J. C., MD MSc, FACP  
(Bacteriol.) Prof., Hd. of Dept.
- Bectaniffy, F. C., BSc *Vassar*,  
PhD *McG* (Anat.) Assoc. Prof.
- Delory, G. E., MSc PhD *Lond*  
(Biochem.) Assoc. Prof.
- Diepenheim, J., DDS *Alta*, DiplDent  
*Utrecht* (Restorative D.) Assoc. Prof.
- Dowse, C. M., BSc *Lond.*, PhD *Durb*  
(Oral Biol.) Assoc. Prof.
- Gemmell, J. P., MD, MRCP, FRCPCan  
(Med.) Assoc. Prof., (Pharmacol. &  
Therapeutics) Sp. Instr.
- Kasloff, Z., DDS *Miss.*, & *Dal*,  
MS *Indiana* (Restorative D.) Assoc. Prof.
- Kleinberg, I., DDS *Tor.*, PhD *Durb*  
(Biochem.) Assoc. Prof.
- Marshall, F. J., DMD *Oregon*, MSc *Ill.*  
(Oral Biol.) Assoc. Prof.
- Moore, K. L., BA MSc PhD *W. Ont*  
(Anat.) Assoc. Prof.
- Ridge, J. M., BSc MD (Pathol.) Assoc. Prof.
- Sigurdson, L. A., MA *Stan.*, MD  
(Anat.) Assoc. Prof.
- Spouge, J. D., MDS *Sheff.*, FDSRCS  
(Oral Biol.) Assoc. Prof.
- Trott, J. R., BDS *Adel.* (Oral Biol.) Assoc. Prof.
- Graham, J. M., DDS *Tor.*  
(Restorative D.) Assoc. Prof.
- Allison, G. E., MD, FRCPCan  
(Psychiatry) Assoc. Prof.
- Averback, M. J., DDS *Miss.* & *Alta*,  
(Oral Biol.) Assoc. Prof.
- Cedoret, R., AB *Harv.*, MD *Yale*  
(Physiol.) Assoc. Prof.
- Cohen, L. H., PhD *Tor.*, MSc  
(Pharmacol. & Therapeutics) Assoc. Prof.
- Cole, E. N., DDS *Tor.*, MS *Pitt.*, BSc  
(Oral Biol.) Assoc. Prof.
- Diesel, P. E., BSc *Antioch*, PhD *Rach*,  
(Pharmacol. & Therapeutics) Assoc. Prof.
- Frank, G. B., BS C.C.N.Y., MSc *Oaks*  
*State*, PhD *McG*  
(Pharmacol. & Therapeutics) Assoc. Prof.
- Fraser, M. J., MSc *Dal.*, PhD *Camb.*  
(Biochem.) Assoc. Prof.
- Hannon, C. K., BSc PhD *McG*,  
(Bacteriol.) Assoc. Prof.
- Innes, L. R., MD *Aberd*  
(Pharmacol. & Therapeutics) Assoc. Prof.
- Khanat, O., MD *Caro*, PhD DTM&H *Lond*  
(Bacteriol.) Assoc. Prof.
- Romeyn, J. D., MD *Tor.*  
(Bacteriol.) Assoc. Prof.

- Sinclair-Ilkell, A. H., MD, FRCSEd  
(Anat.) Asst. Prof.
- Suderman, H. J., MSc (Biochem.) Asst. Prof.
- Wright, M. W., MA PhD *Tor.*, BA  
(Psychol.) Asst. Prof.
- Yamada, Esther W., MSc *W. Ont*,  
PhD *McG* (Biochem.) Asst. Prof.
- Yamada, S. I., MSc PhD *W. Ont*  
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- Campbell, W. G., DDS *Miss.*,  
MPH *Mich.* (Restorative D.) Lectr.
- Chochinov, H., BSc MD, FRCSCan  
(Surg.) Lectr.
- Cleveland, E. M. D., MA *Br. Col.*,  
PhD *McG* (Bacteriol.) Lectr.
- Connor, R. A., DDS DDPH *Tor.*  
(Oral Biol.) Lectr.
- Garvin, M. H., DDS *Tor.*, LL.D  
(Oral Biol.) Lectr.
- Gibson, D., LL.M. *Harv.*, BA LL.B  
(Jurisp.) Lectr.
- Hay, Jenn C., MSc (Anat.) Lectr.
- Kaufman, R. J., BSc MD, FRCPCan  
(Internal Med.) Lectr.
- McCaust, R. J., DDS *Tor.*  
(Prosthodontol.) Lectr.
- Nagy, K., BSc MD (Anat.) Lectr.
- Oseberg, E. A., MD (Radiographic Anat.) Lectr.
- Pickard, E. W., MD (Surg.) Lectr.
- Raley, W. J., DDS *Tor.* (Oral Biol.) Lectr.
- Rumberg, J. B., DDS *Alma* & *Alta*  
(Oral Biol.) Lectr.
- Tregobov, H., BSc DDS *Tor.* (Oral Biol.) Lectr.
- Winestock, A. J., MD (Anat.) Lectr.
- 12 Denma, 20 Sp. Lectr.

## MEDICINE

(for subjects of fiat 2 yrs —Anat.,  
etc., see above)

### Bacteriology and Immunology

- Witt, J. C., MD MSc, FACP Prof., Hd. of Dept
- Walner, P., MD PhD *Lond.* †Assoc. Prof.
- Hannon, C. K., BSc PhD *McG*, Assoc. Prof.
- Romeyn, J. A., MD *Tor.* Assoc. Prof.
- Lansdown, L. P., DPH *Tor.*, MD |Asst. Prof.
- Parker, W. L. |Asst. Prof.
- Thomas, Catherine E., BA *Sask.*, MD Lectr.
- Parker, S., BSc MD Lectr.
- Fox, G., MD Lectr.
- Martin, R. S., BSc *Syd.*, PhD *Giesen* Lectr.
- Norris, M., MS *Miss.* Lectr.
- 3 Denma.

Medical Research, see Physiol. and  
Med. Res., below

### Medicine

- Hell, L. G., MBE, MD, FRCP, FRCPCan,  
FACP Prof., Hd. of Dept.
- Allison, F. G., BA MD, MRCP, FRCPCan  
‡Assoc. Prof.

Gemmell, J. P., MD, MRCP, FRCPCan	Assoc Prof	Fran, J. B., MD Tor, FRCPCan	†Lectr.
Kilgus, J. M., BSc MD, FRCPCan,		McDowell, J. D., MB BCh Belf.	†Lectr.
MRCP, FACP	†Assoc. Prof	Rogers, A. G., MD, FRCPCan	†Lectr.
Mathewson, F. A. L., MD BSc(Med),		Anhalt, A. W., MD	†Lectr.
FACP	†Assoc. Prof.	Berger, S., BA Sask., MD Tor.	†Lectr.
McEwen, D. S., BA BSc MD	†Assoc Prof	Fest, B. B., MD, FRCPCan	†Lectr.
Walton, C. H. A., ED, MSc MD, FACP		Gellman, D. D., MD BSc, MRCP,	
	†Assoc Prof.	FRCPCan	†Lectr.
Brook, W. G., MS Mux., BA MD	†Assoc. Prof	Hurst, H. G., MD MSc	†Lectr.
Beemish, R. E., BA MCh, MD, MRCP,		Mari, P. P., MD Aurora	†Lectr.
FRCPCan, FACP	†Asst. Prof.	9 Teaching Fellows, 13 Demers., 5 Tutors,	
Beckstead, J. L., MD	†Asst. Prof.	2 Sp. Lectrs	
Hughes, J. F. S., MD MSc, FRCPCan			
	†Asst. Prof		
Isaacs, L. G., BA Sask., MD MSc,			
FRCPCan	†Asst. Prof.	<b>Obstetrics and Gynecology</b>	
Kippen, D. L., MD, FACP	†Asst. Prof	Black, Elmer, MD, FRCSCan, FRCOG,	
Maclean, J. P., MD	Asst Prof	FACS	†Prof., Hd. of Dept.
Ross, R. T., MD, MRCP, FRCPCan		Best, B., MD, FRCSED, FRCSCan	†Prof.
	†Asst. Prof	Lyons, R., BA MD, FRCOG	†Assoc. Prof.
Schoemperlen, C. B., MD, FACP	†Asst. Prof	Andison, A. W., BA MD, FRCOG,	
Thomson, A. E., BA Sask., MD MSc,		FRCSCan	†Assoc. Prof.
FRCPCan	Asst. Prof	McCord, W. J., MD, FRCSCan, FACS	†Assoc. Prof.
Vmsrob, S., MD, MRCP, FRCPCan,		Frissen, W. J., MD, FRCSCan	†Assoc. Prof.
FACP	†Asst. Prof	Schmidt, O. A., MD, FRCSCan, FACS	†Asst. Prof.
But, A. R., MD (Dermatol)	†Asst. Prof	Willows, R. L., BA Sask., MD, FRCSCan	†Asst. Prof.
Brownell, E. G., MD, MRCP, FRCPCan,			†Asst. Prof.
FACP	†Asst. Prof	Brudford, C. R., MD, FRCSCan	†Lectr.
Chenais, L., MD BSc(Med), FRCSCan,		Blecke, C. K., MD	†Lectr.
MRCP, FACP	†Asst. Prof	Guyot, H., BA MD	†Lectr.
Chenais, R. M., MD MSc, FRCPCan		Hennsberg, C. MD	†Lectr.
	Asst. Prof	Majury, A. S., MB BCh BAO Belf	†Lectr.
Cole, L. R., MD, FACP	†Asst. Prof	McCawley, J. C., MD, FRCSCan	†Lectr.
Fyfe, T. W., MD MSc, FRCPCan	Asst. Prof	Malinas, A. C., MD, FRCSCan	†Lectr.
Green, P. T., BA MD Tor, FRCPCan,		Mitchell, J. R., MD, FRCSCan	†Lectr.
FACP	†Asst. Prof	Roulston, T. M., MB BCh BAO Belf.	†Lectr.
Houston, A. B., BSc Sask., MD,		Rubin, L., MD	†Lectr.
FRCPCan, FACP	†Asst. Prof.	2 Teaching Fellows, 6 Demers., 2 Tutors†	
Trucklove, L. H., MA BM BCh Oxon.,			
MRCP	Asst. Prof		
Bennett, W. J., MD	†Lectr.	<b>Ophthalmology</b>	
Campbell, M. H., MD	†Lectr.	Elvin, N. L., OBE, MD	†Prof., Hd. of Dept.
Cera, L. J., MD MSc, FRCPCan	†Lectr.	Ramsey, R. M., MS(Ophthalmol) Mux.,	
Cunning, G. R., MD, FRCPCan	†Lectr.	MD	†Asst. Prof.
Downey, J. L., MD	†Lectr.	Rose, J. E., MD	†Asst. Prof.
Karlinsky, W., MD, FRCPCan	†Lectr.	Guest, W. C., MD	†Asst. Prof.
Lyons, B. H., MD Alta, FRCPCan,		Magee, D. R., MD	†Lectr.
FACP	†Lectr.	Reed, H. N., MB BS Lond., DO Oxon.,	
MacDonnell, J. A., MD	†Lectr.	FRCS, FRCSCan	†Lectr.
McFarlane, R. H., MD	†Lectr.	3 Demers.	
McCreath, N. D., MB ChB N Z,			
MRACP, MRCP	†Lectr.	<b>Oto-laryngology</b>	
Martin, J. H., BA MD	†Lectr.	Alexander, W., MD	†Prof., Hd. of Dept.
Morris, J. E., BSc MB ChB Mux.,		Rubin, J. A., MSc N Y, MD	†Lectr.
MD Robt, MRCP	†Lectr.	McGoey, J. E., BA MD	†Lectr.
Folsom, R. A., MD, FRCPCan	†Lectr.	6 Demers.†	
Fincock, J. G., MD	†Lectr.		
Ross, E. L., MD	†Lectr.	<b>Pediatrics</b>	
Rosen, S., MD	†Lectr.	Medovy, H., BA MD, FRCPCan	
Scott, D. L., MD (TB)	†Lectr.		†Prof., Hd. of Dept.
Simclair, A. C., MD	†Lectr.	Chown, H. B., MC, BA McG., MD	†Prof.
Sudal, D. P., MD MSc	†Lectr.	Isaacs, S., BSc Sask., MD, FRCPCan	†Assoc. Prof.
Tisdale, P. K., BSc MD	†Lectr.	FACP	Assoc. Prof
Cuddy, T. E., MD, FRCPCan	Lectr.	Grant, W. W., BA Alta, MD	

McLandress, M., MD	†Asst. Prof.
Briggs, J. N., MD <i>Lond</i> , MRCP	†Asst. Prof.
Boyd, S. A., MD	†Asst. Prof.
De Pape, A. J. D., BA MD, FRCPCan	†Asst. Prof.
Grown, D., MB ChB <i>St. And.</i> , MRCPEd	Asst. Prof.
Zipursky, A., BSc(Med) MD	Asst. Prof.
Uchida, Irene, BA PhD <i>Tor</i>	Asst. Prof.
Maillet, Helen, MD	†Lectr.
Berge, M., BA <i>Sask.</i> , MD	†Lectr.
MacNeil, R. W., BSc MD	†Lectr.
Barsky, P., BSc MD	†Lectr.
Bowman, W. D., MD	†Lectr.
Bowman, J. M., MD	Lectr.
Finkel, K. C., MB BCh BAO <i>Dub</i>	Lectr.
Haworth, J. C., MB ChB <i>Bum</i> , MRCP	Lectr.
Milnes, R. J., MD, FRCPCan	†Lectr.
McRae, K. N., BSc MD	†Lectr.
† Teaching Fellow, 10 Demis	

**Pathology**

Lederman, J. M., BSc <i>Sask</i> , MD,	FRCPCan	Prof., Hd. of Dept
Williams, T. H., DTM&H <i>Lond.</i> , MD		
CM	†Assoc. Prof.	
Rudge, J. M., BSc MD	Assoc. Prof.	
Penner, D. W., BA <i>Sask.</i> , MD	†Asst. Prof.	
Hoogstraten, J., PhD <i>Canb.</i> , MD	†Asst. Prof.	
Burgoyne, F. H., MD, FACP	†Asst. Prof.	
Crowson, C. N., PhD <i>Edin.</i> , MD CM <i>McG</i> ,	MA <i>Qu.</i>	†Asst. Prof.
Hammond, M., MD <i>Laval</i> , BA		†Lectr.
Hogg, Georgina, BSc <i>Sask</i> , MD		†Lectr.
Ross, H. M., MD <i>Tor.</i>		†Lectr.
Strawbridge, H. T. G., MD <i>Edin.</i> ,	MRCPed, FRCPCan	†Lectr.
van Wijhe, M., MD <i>Ley</i>		†Lectr.
Fattal, G. A., MD <i>Beirut</i>		†Lectr.
† Teaching Fellow, 1 Demr., 1 Fellow,		
1 Museum Curator		

**Pharmacology and Therapeutics**

Nickerson, M., MD <i>Utah</i> , AB <i>Linfield</i> ,	ScM <i>Brown</i> , PhD <i>Yale</i> H	Prof., Hd. of Dept.
Lowenthal, J., MSc PhD <i>Montr.</i>		Assoc. Prof.
Osmerod, M. J., MD <i>Tor.</i>		Assoc. Prof.
Innes, J. R., MD <i>Aberd.</i>		Assoc. Prof.
Frank, G. B., BS <i>C.C.N.Y.</i> , MSc <i>Ohio</i>		Assoc. Prof.
State, PhD <i>McG</i>		Asst. Prof.
Dreath, P. E., BSc <i>Antioch</i> , PhD <i>Rock</i>		Asst. Prof.
Rolio, I. M., BSc <i>Aberd.</i>		Asst. Prof.
Cohen, L. H., PhD <i>Tor.</i> , MSc		Asst. Prof.
Yamada, S. I., MSc PhD <i>W Ont</i>		Asst. Prof.
LaBella, F. S., MA <i>Wesleyan</i> , PhD <i>Emory</i>		Asst. Prof.
Pearner, S. S., MSc <i>Lack</i> , PhD <i>Lack.</i> &	<i>McG</i>	Lectr.
Inoue, Y., BM <i>Hokkaido</i> , MD <i>Tokyo</i>		Lectr.
Gourzis, J. T., AB <i>Harv.</i> , AM <i>Boston</i>		Lectr.
Borhan, L. O., MD <i>Stockholm</i>		Lectr.
11 Teaching Fellows, 1 Demr., 1 Sp Lectr		

**Physiology and Medical Research**

Doupe, J., MD, MRCP, FACP	Prof., Hd. of Dept.
Petty, W. F., BSc <i>McG</i> , MA MD CM <i>Qu.</i>	†Assoc. Prof.
Blanchard, M. C., BA MD CM <i>Qu.</i>	†Assoc. Prof.
Hildes, J. A., MD <i>Tor</i> , MRCP, FRCPCan	Assoc. Prof.
Saunders, M. G., MSc MB ChB <i>Mum.</i>	Asst. Prof.
Feigenson, Marion H., PhD <i>Edin</i> , BSc	Asst. Prof.
Gaskell, P., MD <i>W. Ont.</i> , PhD <i>Lond</i>	Asst. Prof.
Cadoret, R., AB <i>Harv.</i> , MD <i>Yale</i>	Asst. Prof.
Catter, S., BSc(Med) MD MSc	Asst. Prof.
Hamm-Hagen, Jean H., BSc <i>Lond</i> , DPhil <i>Oxon</i>	Asst. Prof.
Moorehouse, J. A., MD	Asst. Prof.
Proese, G., MSc PhD <i>W. Ont.</i>	Asst. Prof.

**Psychiatry**

Sisler, G. C., MD, FRCPCan	Prof., Hd. of Dept
Stephens, G. M., MD	†Assoc. Prof.
Mintz, I. J., MD	†Assoc. Prof.
Pincock, T. A., MD	†Asst. Prof.
Wright, M. W., MA PhD <i>Tor</i> , BA	†Asst. Prof.
Allison, G. E., MD, FRCPCan	Asst. Prof.
Johnson, E., BSc MD	†Asst. Prof.
Lambard, W. G., MB ChB <i>Ley</i> , MSc	Asst. Prof.
Lawler, R. H., MD	Asst. Prof.
Tavener, R. H., MD	Asst. Prof.
Aschline, J. L., MD <i>Tor</i>	†Asst. Prof.
Prosen, H., MD MSc	Asst. Prof.
Atkinson, H. S., MD	†Lectr.
Gibson, R., MD <i>Glas.</i>	†Lectr.
Butch, J. E., MD	†Lectr.
Glassco, W. G., MD	†Lectr.
Gonsalves, C. T., MD CM <i>McG.</i>	†Lectr.
Lindsay, J. H., MD <i>W. Ont.</i>	†Lectr.
Bristow, M. E., MD	†Lectr.
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Hunsinger, W. W., MD <i>Heidel</i>	†Lectr.
Schlichter, W., MD <i>Innsbruck</i>	†Lectr.
Thomson, I. B., MB ChB <i>Glas.</i>	†Lectr.
Ford, K. J. R., DPM <i>Man.</i> , MRCP	Lectr.
Adams, J. D., MD	Lectr.
Ford, K. J. R., DPM <i>Man.</i>	Lectr.
Lamberti, J., MD <i>Ott</i>	Lectr.
2 Demis.	

**Radiology**

Macpherson, R. A., MD CM <i>Qu.</i>	†Prof., Hd. of Dept
Childe, A. E., MD	†Assoc. Prof.
Walton, R. J., MB ChB <i>N.Z.</i> , DMR	DMRT
	†Assoc. Prof.
Hall, Clair W., MD	†Asst. Prof.
Kiernan, M. K., BA MD	†Lectr.
Bennett, J. E., MB ChB <i>Glas.</i>	Lectr.
8 Demos	

**Social and Preventive Medicine**

Cndham, R. G., DPH Tw, MD  
 †Asst. Prof., Hd. of Dept  
 Elliott, M. R., OBE, DPH Tw, MD †Lectr  
 Landowne, L. P., DPH Tw, MD †Lectr  
 Malcolmson, H. M., BSc MD †Lectr  
 Morrison, J. B., MD DPH Tw †Lectr

**Surgery**

Ferguson, C. C., MD, FRCSCan, FACS  
 Prof., Hd. of Dept  
 Burrell, R. O., MD ChM, FRCSed, †Assoc. Prof.  
 FRCSCan  
 Tucker, F. R., MChOrth Luv., MD, †Assoc. Prof.  
 FRCSed, FRCSCan  
 Stewart, C. B., MD, FRCSed, Assoc. Prof.  
 FRCSCan (Urol) †Assoc. Prof.  
 Clinik, C. W., MD ChM, FRCSed, †Assoc. Prof.  
 FRCSCan, FACS  
 Huggins, Donald, BSc MD †Assoc. Prof.  
 (Anesth) †Assoc. Prof.  
 Farr, J. T., MD, FRCSed, FRCSCan  
 Richardson, R. W., OBE, MD ChM †Asst. Prof.  
 †Asst. Prof.  
 James, E. S., MD, FRCS, FRCSCan  
 †Asst. Prof.  
 Renno, J. W. R., MD, FRCSed, †Asst. Prof.  
 FRCSCan, FACS  
 Trueman, K. R., MSc Mmed., BA MD, †Asst. Prof.  
 FACS  
 Klass, A. A., BA MD, FRCSed, †Asst. Prof.  
 FRCSCan  
 Rabson, L. R., BA MD, FRCSed, †Asst. Prof.  
 FRCSCan  
 MacKinnon, W. B., MD ChM, †Asst. Prof.  
 FRCSCan  
 Parkinson, D., MD CM McG., MSc Mmed., †Asst. Prof.  
 FRCSCan, FACS (Neurosurg) †Asst. Prof.  
 Swartz, D. M., MD, FRCSed, FRCSCan  
 †Asst. Prof.  
 Stephenson, E. S., MD ChM, FRCSed, †Asst. Prof.  
 FRCSCan  
 Descon, A. E., MSc Mmed., MD †Asst. Prof.  
 Bartlett, L. C., MD W.Ost., FRCSCan  
 Asst. Prof.; Dir., Postgrad. Studies  
 MacDougall, J. T., DSO, BA Alta., MD  
 CM McG., FRCSed, FRCSCan Asst. Prof.  
 Merkeley, N. P., MD ChM, FRCSCan  
 Asst. Prof.  
 Cohen, M., PhD Mmed., MD, FRCSCan  
 Asst. Prof.

Cooke, R. L., BSc Sask., MD, FRCS, †Asst. Prof.  
 FRCSCan  
 Zange, W., MD Zur., MSc, FRCSCan Asst. Prof.  
 Bruns, D. M., MBE, BA MD ChM, †Asst. Prof.  
 FRCSCan  
 Hollenberg, C., MBE, ChM Luv., MD, †Asst. Prof.  
 FRCS, FRCSCan  
 Waugh, G., MD, FRCSCan Asst. Prof.  
 MacLaughlin, T. J., MB BCh N.U.I. Asst. Prof.  
 Fahnestock, G. P., DSc, MD, FRCSCan, †Asst. Prof.  
 FACS  
 Mamch, M., MD †Asst. Prof.  
 Landa, J. F., MD CM Qv., FRCSCan  
 Asst. Prof.  
 Bennett, Margaree R., MD †Lectr.  
 Isaac, J. E., MD, FRCSCan †Lectr.  
 Loadman, B. E., BA MD ChM †Lectr.  
 McEneaney, J. H., MB ChB Glas., FRCSed  
 Taylor, J. R., BA Sask., MD MSc †Lectr.  
 Packard, E. W., MD †Lectr.  
 Welby, W. R., MD BS Lond., FRCS †Lectr.  
 Barbreyer, P., MD, FRCS †Lectr.  
 McCarten, R. J., DDS Tor. (Dent.) †Lectr.  
 Cruickshank, L. F. G., MB ChB Edw. †Lectr.  
 Lehmann, M. J., BSc MD, FRCSCan †Lectr.  
 Whythead, L. L., BM BCh Oxon, FRCS †Lectr.  
 Burns, C. M., MD, FRCSCan †Lectr.  
 Duval, F. W., MD, FRCSCan †Lectr.  
 Goldstein, P., MD Qv., FRCSed, †Lectr.  
 FRCSCan, FRCS  
 Loban, J., MD †Lectr.  
 McGarry, P. M. F., MB BCh N.U.I. †Lectr.  
 McGarry, J. S., MD Tor. †Lectr.  
 Milner, R., MB ChB Aberd., FRCP †Lectr.  
 Molgat, A. L., MD Laval, FRCSCan †Lectr.  
 Ross, G. M., MB ChB St. Aust. †Lectr.  
 Semelka, G., MB Jussivach. †Lectr.  
 Thorlakson, R. H., MD, FRCSCan †Lectr.  
 Whiteford, J. W., MD †Lectr.  
 Wolkenstein, C., MB BS Malb. †Lectr.  
 Bigelow, D. R., MSc Tenn., MD †Lectr.  
 Hollenberg, J., MD †Lectr.  
 Kagan, J. W., MD †Lectr.  
 Kagan, J. W., MD Laval, FRCSCan †Lectr.  
 Lambie, R. S. †Lectr.  
 Dexter, P., MD, FRCS, FRCSCan †Lectr.  
 Hay, R., MB BS Durh., FRCS, FRCSCan †Lectr.  
 Thorlakson, T. K., MD, FRCSCan †Lectr.  
 8 Teaching Fellows, 20 Demers., 6 Tutors,  
 2 Res. Consultants, 1 Med. Illustrator

**ADMINISTRATIVE AND OTHER STAFF**

Dir., Sch. of Archt.: J. A. Russell, BSc(Arch)  
 MArch M.I.T. Dir., Sch. of Home Econ.:  
 Lorna M. Davis, MA. Dir., Univ. Extension  
 and Adult Educn.: A. S. R. Tweedie, MA. Dir.,  
 Sch. of Music: R. W. Gibson, MusB Manc.  
 Dir., Sch. of Soc. Work: Helen M. Mann, AM  
 Chic., MA MEd. Dir., Sch. of Art: R. E.

Williams, BA CarnegieTech Inst., MFA Iowa  
 Dir., Summer Sch.: R. J. Lockhart, BA W. Ont.  
 Dir., Sch. of Comm.: R. F. Harris, BCom MA  
 Tor. Dir., Sch. of Pharm.: J. R. Murray, MSc  
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 Margaret E. Hart, BSc MA Cal.  
 Awards Registrar: Margaret White. Manager,



Univ. Bldg. J. A. Nelson, BSc Supt of  
Bldgs and Grounds J. Illingworth Duetman,  
Univ. Residence. Anna Rydeen, BSc(HEd)  
Dn of Men's Residence: Miss Clara Unwin.

Dn of Women's Residence. Miss M. Vianen  
McKinnon Phys. Dir. W. F. R. Kennedy,  
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## AFFILIATED COLLEGES represented on the Senate

### BRANDON COLLEGE\*

Founded 1899

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Dean of Arts and Science—H. S. Perdue, MA  
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Dean of Education—W. W. McCutcheon, BSc  
(Agr) McG., BSc SurG.Wm., BEd Acad.,  
MSA Tor., EdD Conn., Assoc. Inst. of Educ.,  
Lond.

Director, School of Music—L. Watson, BA Tor.,  
MA N.Y., LTCM.

Bursar—D. R. McKay, CD, BA

Registrar—Norma E. Walmesley, BComm MA  
McG

#### Teaching Staff

ARTS AND SCIENCE. Profs.: H. V. Kidd, PhD  
Lond., MSc, FCIC (Chem.), H. S. Perdue, MA  
McM., PhD Chic (Geol.); E. J. Tyler, MSc  
PhD Utah, BA (Psychol) Assoc. Prof. E. A.  
Birdshead, BSc (Maths.), H. Cooperstock, AB  
Boston (Sociol.); W. H. Enns, PhD Biol. (Geom-  
etry); G. F. MacDowell, BA Dal., MA Chic  
(Econ.); G. H. MacNeill, BA Acad., MA McG  
(French), E. Perry, BA Lond & Q., MA Tor  
(Engl.); R. M. Simmons, BA BTh BD McM.,  
STM U.T.S.(N.Y.) (Philo. & Religious Studies);  
W. D. Smith, MA Tor., BA (Hist.); B. Thordar-  
son, MA Maa., BA (Engl.), Norma E. Walmesley,  
BComm MA McG. (Pol. Sci.); L. Watson, BA  
Tor., MA N.Y., LTCM (Music); W. Wong,  
MA Tor., BSc (Phys.) Asst. Profs.: E. Glenis-  
son, MA Maa. (French), R. H. Hannah, BA  
(Bot. & Zool.), R. T. Rye, MSc Br. Col., PhD  
Lond (Chem.), A. S. de Souza, DSc Laval  
(Chem.), Peggy A. Sharpe, BA McM., ATCM  
(Music); J. L. Tyman, BA Owen, MA McG  
(Geog.); H. R. Young, MSc Alta., BSc (Geol. &  
Zool.), W. L. Zwermer, MA Conn. (Sociol.).  
Lectrs: I. W. Dickson, BSc (Zool.), Lena A.  
Harvey, MA Chic, BA (Latin), C. P. Honey,  
MA Tor. (Econ.); A. R. Kear, BA R.M.C. &  
Qu (Pol. Sci.), S. Klippenstein, BSc (Phys. &  
Maths.), A. Rogovin, BSc Rutgers, MSc Maa.  
(Bot.); N. E. Spence, BA (Psychol)

EDUCATION AND TEACHER TRAINING Prof.:  
W. W. McCutcheon, BSc(Agr) McG., BSc Sur  
G.Wm., BEd Acad., MSA Tor., EdD Conn.,

Assoc. Inst. of Educ., Lond. Asst. Profs.: Betty  
Gibson, BA BEd (Primary Methods), J. W.  
Grant, MA BEd Dal. (Engl.); R. H. Hannah,  
BA (Visual Educn.), S. L. Kong, BA Hsec Kan,  
PhD Ont. (Educn. Psychol.), D. Le Queues,  
BFA Mt. All. (Fine Art); Anne M. Loutit, MA  
BEd (French); J. M. Marshall, BS MEd Spring-  
field (Phys. Educn.), W. Peters, BA BEd (Class-  
room Management & Soc. Studies); Joan E.  
Reid, BA BEd (Engl. Methods & Remedial  
Engl.); J. A. Voth, BA MEd (Sci. Methods &  
Educn. Admin.) Instrs.: Joyce E. Cooper  
(Speech), Phoebe M. Glaser, BA MEd (Child-  
ren's Lit. & Hist. of Educn.); Isabelle Mills,  
ARCT Tor. (Music)

SCHOOL OF MUSIC Prof.: L. Watson, BA  
Tor., MA N.Y., LTCM (Piano & Theory)  
Asst. Profs.: L. Jones, MaaM Yale, ARCT Tor.,  
BA LMIM (Piano & Theory), L. Needham  
(Singing & Theory), Peggy A. Sharpe, BA McM.,  
ATCM (Piano & Theory) Instrs.: Jean Mann,  
ATCM (Piano), Isabelle Mills, ARCT (Piano  
& Theory); K. Nichols, LRCT (Piano), Mae  
Selwood (Violin); Mary E. Smart, ATCM  
(Piano), Elva Spalding, ATCM (Piano), . . .  
(Wind Instruments). Prof. Emer. W. L. Wright,  
BA MusD Acad.

#### General Information

Founded in 1899 and affiliated to the Univ. of  
Manitoba since 1938, Brandon Coll. is a non-  
denominational, co-educational instn. offering  
courses leading to bachelor's degrees (of the Univ.  
of Manitoba) in arts and sci., to cert. in educn.  
and to associateships in music of the Royal Con-  
servatory of Music, Univ. of Toronto (ARCT)  
and of the Univ. of Manit. (AMM). The coll.  
was under the control of a bd. apptd. by the  
Baptist Union of W. Canada until 1938 when it  
was reorganized and incorporated under the laws  
of the province of Manitoba, the responsibility for  
the control and admin. of its affairs being assumed  
by a bd. of dirs. of Manitoba citizens. From 1910  
to 1938 the coll. was affiliated to McMaster Univ.

Student numbers (1956-61) 420 full-time  
(arts, sci., educn., teacher trng.), 390 part-time  
(evening lectures and music).

\* Associate Member of the Association of Universities of the British Commonwealth

St Boniface College, St Boniface (tel. Winnipeg CL-7-4829) (R.C.) Founded 1828 Provides full 4-yr course for BA 'Latin philo's' of the Univ. Lang of instrcn is French. Rector—Very Rev. G. Fortier, BA MSc DScSc

St John's College, Winnipeg (tel. Winnipeg WE-2-2566) (Anglican Church of Canada) Founded 1866 Awards degrees of LTh, BD and Hon DD Provides full 4-yr course for BA of the Univ and grad courses for MA of the Univ. Warden—Rev. C. C. Landon, BD PhD

UNITED COLLEGE, Winnipeg (tel. Winnipeg SP-2-0314) (United Church of Canada) Establd 1938 as a result of union of Manitoba

Coll (founded 1871) and Wesley Coll (f. 1877). Provides full 4-yr course for BA of the Univ. and grad courses for MA of the Univ. Also awards its own degrees of BD and MST. Principal—W. C. Lockhart, MA PhD DD

St Paul's College, Winnipeg (tel. Winnipeg WH-3-2271) (R.C.). Founded 1926 Provides full 4-yr course for BA of the Univ. Rector—Very Rev. H. Korman, MA

MANITOBA LAW SCHOOL, Winnipeg (tel. Winnipeg WH-6-3378) Founded 1914 Provides full 4-yr course for LLB of the Univ. and also grad studies for LL.M. of the Univ. Dean—G. P. R. Tallin, QC, BA OAU, LLB

## GENERAL INFORMATION

The Univ. was establd. by act of the provincial legislature in 1877 on the model of the Univ. of London, as an examining and degree-conferring body, the instrcn. to be given in the affiliated colls. which were already in existence, viz.: St Boniface Coll., St. John's Coll. and Manitoba Coll. This list was subsequently extended to include Manitoba Medical Coll. (1882), Wesley Coll. (1883), Manitoba Coll. of Pharmacy (1902), Manitoba Agric. Coll. (1907), Manitoba Law Sch. (1914), St. Paul's Coll. (1931) and Brandon Coll. (1938). In 1900 the Univ. was, by legislative enactment, given power to offer instrcn. In 1929, having outgrown its city bldgs., the Univ. was removed to a permanent rural site with ample space for expansion. In 1940 a systematic programme of work in rural adult educn. was begun. The unprecedented influx of students at the conclusion of hostilities in 1945 gave a great stimulus to expansion. The fac. of grad studies & res. was establd., a chair of Icelandic, and depts. of classic studies, Univ. extension & adult educn., mathl. phys., phys. educn., athletics & recreation, psychiatry, geog., microbial and agric. econ. In 1950 the Univ. sch. of art was opened and in 1953 the new library. A chair of agricn. was establd. in 1954. In 1957 a fac. of dent. was establd. and a dept. of pharmcol. & therapeutics formed in fac. of med.

The Univ. has the sole power in the province of conferring degrees in arts, sci., law, med., dent., engin., pharmacy, comm., agric., home econ., educn., pedagogy, archit., interior design, fine arts and soc. work. It received in 1898 from the dominion govt. a land grant of 150,000 acres.

LOCATION The bldgs. occupied by the facs/schs. of med., dent., med. rehabilitation, and law are in the city of Winnipeg. The site of the facs of arts & sci., agric. & home econ., engin. & archit., educn., the grad sch. of soc. work, and the grad sch. of nursing, is in the municipality of Fort Garry, 7 mls. from the centre of Winnipeg. The Univ. has 50 bldgs. on this site, incl. the residence which has accomm. for 600 students. Also on this site are the

dominion rust res. lab., the dominion lab. of plant pathol., the dominion lab. of entomol. and the provincial experimental far. farm.

CONSTITUTION General management of the Univ. is vested in a bld. of 14 governors, 9 of whom are appt. by the lt.-governor in council, 3 elected by grads. from among their own number, the remaining 2 being the chancellor and the press officer. The bld. has corporate powers and in all matters relating to the management of the Univ., incl. academic affairs, it enjoys plenary powers. The prime academic body is the senate, whose membership consists of the pres. as chairman, chancellor, dep. minister of educn., chairman of the advisory bdy of the dept. of educn., deans of facs, reps. of profs. in each fac., dirs. of schs. and reps. of affiliated colls., the Coll. of Physicians and Surgeons of Manit., and the alumni assocn. Under its control are entrance requirements, courses of study, methods of instrcn., appointment of examiners, approval of degrees, and related matters.

INCOME (1950-61). Total income, \$3,104,273 (govt. grants, 63.7 per cent., fees, 19.8 per cent., services, 14 per cent., endowments & other sources, 2.5 per cent.)

FACULTIES (for deans, see p. 250). *Arts & sci.* providing instrcn. in all subjects of undergrad. courses in arts (except 6 options) and the Latin philo's course for French-speaking students of St. Boniface Coll.), sci., pharmacy and comm., med., engin., archit., interior design, agric. & home econ.; educn., dent. Other subs. of arts course taught in affiliated colls. Law taught in Manitoba law sch. (under direction of trustees jointly apptd. by Univ. and Law Soc. of Manitoba) Sch. of med. rehabilitation (formerly sch. of physiotherapy & occupnl. therapy) Public health nursing and teaching and supervision in schs. of nursing are taught to grad. nurses in the grad. sch. of nursing, directed by the Univ. and financed by the provincial dept. of health and public welfare. Academic and clin. trng. of social workers is carried on in the grad. sch. of soc. work. A course

leading to the degree of bachelor of fine arts is taught co-operatively by the fac. of arts & sci., the sch. of art, the sch. of archit. and the sch. of home econ.

**UNIV. LIBRARY** 730,000 vols., 1800 periodicals read. There are also 30,410 mounted plates and photographs and 10,000 slides in the sch. of archit. The med. coll. has a library of over 27,000 vols., and receives 430 periodicals.

**LABORATORIES** Anat., bacteriol., bot., chem., engin. (material testing—200,000 lb., cement, elect.), geol. & mineral, pathol., phys., physiol., zool.

**MUSEUMS** Anat., bot., embryol., geol., pathol.

**HOSPITALS** available for clinics: 6 general (2300 beds) and several special, incl. TB, infectious dis. and psychopathic hospitals. Hosps. offering clin. instruction are Winnipeg General H., St. Boniface H., Winnipeg Children's H., Grace H., Dees Lodge Military H. and the City Municipal Hs.

**FARM** (1000 acres).

**ADMISSION** See Appendix III.

**Note**—From 1964, a matric. will be min. qualif. for univ. entrance.

**FIRST DEGREE** 4 yrs. from jr. matric.—BA gen., BSc gen., BComm gen., BFA, 4 yrs. from sr. matric.—BComm hon., BScEng (civl., elect., mech. or geol. engin., engin. phys.), BHEc, BHEc hon., BID, BA hon., BSc hon., BPhd, BSA, BScPharm, BN; 5 yrs. from sr. matric.—BArch, LLB (1 yr. in arts & sci., 4 yrs. in law), DMD (1 yr. in arts & sci., 4 yrs. in dent.), 6 yrs. from sr. matric.—MD (3 yrs. in arts & sci., 4 yrs. in med.).

Subjects for the BA gen. and BSc gen. are placed in 3 groups (humanities, soc. sci., phys. sci.) from each of which selection is made in accordance with definite regns; e.g. for the BA, compulsory subs. are Engl. (2 yrs.), a foreign lang. (2 yrs.), maths (1 yr.).

BA hon. (in 1 or 2 subs.) may be taken in anthropol. & sociol., classics, econ., Engl., French, geog., German, hist., Icelandic, philol., pol. sci. & internat. relns., psychol., slav. studies. BSc hon. may be taken in natural math. & stats., bot., chem., geol. & mineral, maths, mod. phys., microbiol., phys., zool. In the BSA degree course certain specialist options are available, and hon. may be taken in plant sci., animal sci. and agric. econ.

In the BScEng course a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr.

While taking the LLB course a student may simultaneously obtain the Law Society of Manitoba's qualif. for practice. Students who have graduated BAArch may qualify for licence to practice by a 1-yr. service in an architect's office.

Teachers may qualify for BA, BPhd or BED by pt.-time or evg. courses.

**HIGHER DEGREES** 1 or 2 yrs.' postgrad. course—MA, MSc, MArch, MArch(CP), LL.M.,

BSW, MSW, a yrs.' postgrad. course—BED, 1 yr. after BED—MEd, res. courses governed by sp. regns lead to BSc(Med), MSc(Med) and PhD degrees.

For the MSc, and usually for the MA, a thesis is required as well as exam. Candidates who hold the BA gen. or BSc gen. degree of the univ. (or an equivalent degree) study a further yrs. for the master's degree and are required in their 1st yr. to take certain hon. courses. The MA may be taken in classics, econ., Engl., French, geog., German, hist., Icelandic, oriental langs. & lit., philol., pol. sci. & internat. relns., psychol., slav. studies, sociol. The MSc may be taken in agric., home econ., civil, elect. and mech. engin., as well as in certain sci. subj. of the univ. (incl. maths).

**HONORARY DEGREE** LL.D., D.Litt., D.Sc.

The univ. does not award EXTERNAL DEGREES, but offers sch. teachers the opportunity of gaining degrees by correspondence courses (limited to the 2nd yr. in arts), extension courses in arts, sci. and educn., and the annual 6-wk. summer sch. See 'Univ. Extension', 'Extra-Mural Work' and 'Vacation Courses', below.

**DIPLOMAS** 5 mos.—diaryng., 2 yrs.—agric., physiotherapy or occupational therapy, 4 yrs.' resident internships—anaesthesiol., psychiatry, radiol., surg.

**CERTIFICATES** 1 yr.—nursing, educn., soc. work.

**OTHER QUALIFICATIONS** The univ. conducts exams. for admission to the practice of dent. and membership of the Manitoba Dental Assocn., to the practice of accty. and membership of the Inst. of Chartered Accountants of Manitoba, and in the basic sci. for candidates seeking licensure with the Coll. of Physicians and Surgeons of Manitoba.

**Mus.** The univ. conducts exams. in all grades of vocal and instrumental music (piano, organ, violin, viola, violoncello) and musical theory and hist. leading to the dipl. of Assoc. in Music, Manit. (AMM). Holders of the AMM or equivalent standing may obtain the licentiate-shp. dipl. on passing an advanced practical exam. Music may be offered as an elective for matric. if carried for 2 or 3 yrs. in high sch. and at least the prescribed min. grade is attained. It is also an elective in arts and in the 2nd and 4th yrs. in home econ. Practical instrcn. must be obtained from private teachers.

Exams. are based on a syllabus of the Western Bd. of Music, composed of reprs. of the univs. and depts. of educn. of Manitoba, Saskatchewan and Alberta.

**Fees.** Annual tuition fees: Undergrad.: agric., arts, educn., fine arts, home econ., law, nursing, educn., comm., soc. work, \$300; interior design, \$310; engin., \$400; archit., \$410; dent., \$425; med., \$500; phinn., \$550. Grad. studies and res.: pre-MA, (home econ.), pre-MSc, MSW, \$300, LL.M., \$360; other master's degrees,

\$250, PhD, \$250. Sch. of med. rehabilitation, \$325. Dipl. courses: agric., art., \$200.

**ACADEMIC YEAR** Sept. 1st-3rd wk. of May  
Summer session July 3rd-Aug. 25th

**UNIVERSITY EXTENSION.** Institute evg. courses (cultural); winter evg. business courses in acct., comm. law, Engl., pol. econ., etc., given partly by members of regular univ. staff; radio popular lectures and broadcasts of music chosen from music syllabus, short courses in farm equipment repairing, bee-keeping, home-making, dairying, poultry, home vegetables and fruit growing, home grounds beautification and flower growing, fur farming, field crops, nutrition and diseases of farm animals, Feb. series of popular lectures, programme of adult educ. in fine arts in rural communities of the province, Manitoba Labour Inst. classes, extension service in agric. and home econ. through correspondence, lectures, judging, bulletins, etc., dept. of music extension, under a dir. of music, evg. courses for credit in certain arts subjects of the 2nd yr. in Winnipeg and at selected rural centres (see below).

**EXTRA-MURAL WORK.** Correspondence courses carrying degree credit are offered in certain subjects of the 2nd yr. in arts. Only 1 full course or a half course may be taken in any 1 regular session.

**VACATION COURSES.** Summer sch. (6 wks.) in July and Aug. Courses for teacher trng. and in grade XII and arts and sci. subj.

**POSTGRADUATE AWARDS** open to grads. of other univs. Canadian Industries Ltd. res. fellowship of \$2000 is offered annually to any British subject who is a grad. of a recognized univ. for res. in agric. econ. at the Univ. of Manitoba. Dafoe fellowship of \$2500 is offered annually to a candidate doing grad. work in internat. relns., pol. sci., internat. or other econ. or diplomatic or other hist. Shell Oil fellowship of \$1200 for 1st in sci. or engin. is offered annually to a grad. in any recognized univ. who has had at least 1 yr.'s

postgrad. study at a Canadian univ. Northern Electric grad. fellowship of \$1500 for res. in electr. or mech. engin., engin., phys., mathl. phys. or phys. is offered annually to a grad. in a recognized univ. who is a Canadian citizen, British subject or landed immigrant in Canada. Bettie Ramsay scholsh. of \$750 for res. related to highway construction is offered annually to a civil engin. grad. of a recognized univ. by the Prairie Road Builders Section, Canadian Construction Assocn.

**RESIDENCE.** Hostels at all affiliated arts colls. and at Fort Garry site. Fees, \$55-\$60 p. m.

**ALUMNI ASSOCIATION.** Founded in 1921 to deal as a body with all matters affecting the interests of alumni. Executive dir.—J. M. Gordon, BA.

**MILITARY UNITS.** Trng. is offered leading to commissions in either active or reserve forces of the navy and the army by the Univ. of Manitoba naval trng. division (UNTD) and the Univ. of Manitoba contingent Canadian officers' trng. corps (COTC) respectively; and to commissions in regular or reserve force by the Univ. of Manitoba squadron, royal Canadian air force.

**HEALTH SERVICES.** Students are required to undergo a health exam. at beginning of each session.

**STUDENT ATHLETIC FACILITIES.** A large well-equipped gymnasium with seating for 1800 spectators; a recreation hall, ice rink, curling rink, rifle range, and playing fields on campus. Off-campus accomm. provided for track, tennis, golf, swimming, bowling.

**PUBLICATIONS.** *General Calendar* (May), free, *Manitoba* (students' paper), bi-weekly (free to Manitoba students, others, \$1 p.a.), *Annual Report* (free); *Centros Campus* (student and staff, publd. annually, 25 c).

**UNIVERSITY PRESS.** Founded in 1945; operates under guidance of the univ. book dept. Manager, J. M. Neilson, BSc.

## THE YEAR 1961

**RETIREMENTS.** Marjorie MacKay, dean of women; G. L. Adamson (psychiatry), C. E. Corrigan (surg.); M. Hollenberg (internal med.).

**RESIGNATIONS.** M. J. Collie (Engl.), R. W. Dunning (sociol.), B. Klymash (slavic studies); W. H. Parker (geog.); J. D. Peter (Engl.), Fern Rennebohm (home econ.), Miss C. Roberts (home econ.), A. C. Wallace (pathol.), H. J. Young (mech. engin.).

**DEATHS.** Prof. emer. R. C. Lodge (philos.), dir. emer. Eva Clare (music), Prof. S. D. Stark (German); Asst. Prof. D. G. J. Matthews (sociol.).

**HONORARY DEGREES.** LL.D.—H. E. A. Spier, Angstrom, pres., Republic of Iceland, R. B. Bryce, clerk, prov. council, Ottawa, J. E. Coyne,

govr., bank of Canada, Ottawa; Olive F. Diefenbaker, Hon. T. C. Douglas, premier, prov. of Saskatchewan, Rt. Hon. W. Grant, lord advocate of U.K., B. Leserre, avocat, Cour d'Appel, Paris, D. McIntosh, pres., Canadian Bar Assocn., F. R. Scott, dean of law, McGill, W. N. Seymour, immediate past pres., American Bar Assocn.; F. H. Varley, artist.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4904	361
Women	1976	183
Total	6880	544

Distribution by Faculties, etc. *Agric.*, 249, *archt.*, 225; *art dipl.*, 58; *arts & sci.*, 4315; *comm.*, 161; *dent.*, 94; *educn.*, 124; *engin.*, 668; *fine arts*, 66; *home econ.*, 215; *interven. des.*, 153; *law*, 118; *med.*, 196; *nursing educn.*, 48; *pharm.*, 106; *soc work*, 79; *grad studies*, 549. Total 7424.

Included in the figures above are:—

Postgraduate students, 549

New admissions, 2400

Students from other countries, 451. (Countries from which largest numbers came: W. Indies Fed., 224; U.K., 44; Hong Kong, 42; U.S.A., 38; India, 15)

DIPLOMAS AWARDED (1960-61) *PhD*, 2, *MA*, 20, *MSc*, 44, *MSc(CP)*, 5, *MEd*, 12, *BA*

*gen*, 336, *BA(LatPhd)*, 18, *BSc gen*, 132, *BScPharm*, 24, *BComm gen*, 22, *BA hons*, 9; *BSc hons*, 13; *BComm hons*, 6, *LLB*, 27, *MD*, 53, *BSc(Med)*, 10, *BSc(HEc)*, 28, *BSA gen*, 29, *BSA hons*, 3; *BScEng (civl)*, 66, *BScEng (elect)*, 44; *BScEng (mech)*, 45, *BScEng (geol)*, 4, *BScEng (engin phys)*, 5, *BArch*, 21; *BEd*, 135; *BPed gen*, 35, *BPed hons*, 11, *BPed (new)*, 1, *BID*, 9, *BFA*, 7, *BSW*, 35, *MSW*, 21.

DIPLOMAS AWARDED (1960-61) *Agric*, 19, *anesthesiol.*, 5, *psychiatry*, 4; *surg*, 3, *art*, 7, *dairying*, 8; *music*, 15

CERTIFICATES AWARDED (1960-61) *Nursing educn*, 15; *soc work*, 4, *educn*, 74

# MEMORIAL UNIVERSITY OF NEWFOUNDLAND\*

Founded 1949; previously established as Memorial University College, 1925

Postal Address: St. John's, Newfoundland, Canada

Telephone St. John's 9-5081

VISITOR—His Honour The Lieutenant-Governor, The Hon. C. MacPHERSON, OBE

CHANCELLOR—R. H. THOMSON

VICE-CHANCELLOR AND PRESIDENT—R. CUSHUE, CBE, QC, LLB *Dal.*, Hon. LL.D. *Dal.* & *New Br.*, Hon. D.C. LL. K.C.N.S.

CHAIRMAN OF THE BOARD OF REGENTS—E. J. PHILAN, QC

DEAN EMERITUS—A. C. HUNTER, BA *Lond.*, MA *Oxon.*, DUP<sup>1</sup>

DEANS—APPLIED SCIENCES—S. J. CARR, BSc *Dal.*, BE(Mining) *N.S.T.C.* (Engl.); ARTS AND SCIENCE—M. O. MORGAN, MA *Dal.* & *Oxon.* (Pol. Sci.); EDUCATION—G. A. HICKMAN, BA *Mt. All.*, MA *Acad.*, EdD *Cal.*

REGISTERAR—H. T. RENOUF, JP, FCIS

LIBRARIAN—ADA GREEN, BA *Mt. All.*, BLS *McG.*

BURSAR—D. C. BARTER

## TEACHING STAFF

[†=Part-Time]

<b>Anthropology</b> , see Sociol. and Anthropol.		Williams, R. K., BSc <i>Edin.</i> , PhD <i>Leu.</i>	Asst. Prof.
<b>Art</b>		Barton, D., PhMEd BSc <i>Tor.</i> , PhD <i>Buffalo</i>	Asst. Prof.
Seary, Mrs. E. R.	Visiting Lectr.	Jones, Leon, MSc <i>Ohio State</i>	Lectr.
<b>Biology</b>		<b>Classics</b>	
Andrews, C. W., BSc <i>Mt. All.</i> , MA <i>W. Ont.</i> , PhD <i>Tor.</i>	Prof.	Ashley, J. B., BA <i>Dal.</i> , MA <i>Oxon.</i>	Prof.
Leah, E., BSc <i>Acad.</i>	Assoc. Prof.	Reardon, B. P., MA <i>Glas.</i>	Asst. Prof.
Aldrich, F. A., AB <i>Drew.</i> , MSc PhD <i>Rutgers</i>	Assoc. Prof.	Wall, Miss Georgina M., BA <i>Mt. All.</i> , MA <i>Chc.</i>	Asst. Prof.
Bartlett, G. W., BA <i>Mt. All.</i> , BSc <i>Lond.</i> , DPhil <i>Oxon.</i>	Assoc. Prof.	<b>Commerce</b>	
Sandeman, I., BSc <i>St. And.</i>	Asst. Prof.	Gardner, P. J., MA <i>Oxon.</i>	Assoc. Prof.
Steele, D. H., BSc <i>W. Ont.</i> , MSc PhD <i>McG.</i>	Asst. Prof.	Soper, P. L., LLB <i>Dal.</i>	†Lectr.
Templeman, W., OBE, BSc <i>Dal.</i> , MA PhD <i>Tw.</i> , FRSCan	†Res. Prof.	Grove, J. D.	†Lectr.
Feltham, L. A. W., BSc <i>Dal.</i> , MA <i>Tor.</i>	Visiting Lectr.	Renouf, H. T., JP, FCIS	Sp. Lectr.
Steele, Miss D. H., MSc <i>McG.</i>	Visiting Lectr.	<b>Economics</b>	
<b>Chemistry</b>		Copes, P., MA <i>Br. Col.</i> , PhD <i>Lond.</i>	Prof.
Coopes, D. L., BSc <i>K.C.N.S.</i> , MSc <i>Dal.</i> , PhD <i>McG.</i>	Prof.	Alvi, S., MA <i>Kanaku</i> , PhD <i>Colorado</i>	Asst. Prof.
Anderson, H. J., MSc <i>Mount.</i> , PhD <i>Northwestern</i>	Assoc. Prof.	Brenner, Y. S., MA <i>Jerusalem &amp; Lond.</i>	Asst. Prof.
Scott, J. M. W., BSc PhD <i>Lond.</i>	Assoc. Prof.	Singh, B., MA <i>Pan.</i> , MS <i>Conn.</i> , PhD <i>Maryland</i>	Asst. Prof.
<b>Education</b>		<b>Education</b>	
		Hickman, G. A., BA <i>Mt. All.</i> , MA <i>Acad.</i> , EdD <i>Cal.</i>	Prof., Hd. of Dept.

\* Member of the Association of Universities of the British Commonwealth

- Rowe, W. G., BA Dal., MA Col.  
Ivany, C., BA Acad., BProd Tor.  
Crocker, O. K., BA Acad., EdM Harv.  
Evanenden, W. L., BA BEd Sask., MSc  
EdD Tennessee  
Goodyear, C. J., BSc McG., MSc Harv.  
Gushue, W. J., EdD Boston, BA(Ed)  
Ivamey, R., BSc Acad., BProd Tor.  
James, Ethel, BA(Ed)  
Johnson, E., BA Leeds, BEd Q'ld.  
Layman, Grace, BA Wilson (Pa.), MA Col.  
Roberts, A. H., BA Acad., EdM Harv.  
Bassett, C. R., DEd Harv., BA(Ed)  
Bacustes, M. A., BSc Castleton  
Ritch, W. A. D., MA Abert  
Warren, P. J., MEd Alta., BA(Ed) BSc  
Pizzard, G., BA(Ed) BA  
Broomfield, Olga, BA BA(Ed)  
Velich, N., BA(Ed)

**Engineering**

- Carew, S. J., BSc Dal., BE(Mining) N.S.T.C.  
Facey, J. M. C., BSc(Eng) Lond  
Nemec, A. O., BSE Mich  
Dyer, H., BE(Mech) N.S.T.C.

**English**

- Seary, E. R., MA PhD Shaf.  
Fett, D. G., BA Mt All., MA Tor.  
Stout, G. M., BA McG., DPhil Oxon.  
Macdonald, A. A., MA Abert., BLett Oxon.,  
PhD Manc.  
Aldus, P. J., BS Detroit, MA Mich.,  
PhD Chic.  
Halpert, H., BS N.Y., MA Col.,  
PhD Indiana  
Feder, Mrs. Alison, MA Tor., PhD Lond.  
Kwinn, W., AB Bowdoin, MA Chic.  
Orsten, Miss E. M., BA Sacred Heart  
(Manhattan), MA Oxon.  
Francis, C. J., MA PhD Manc.  
Frocker, Mrs. Helena, MA Tor.  
Pratt, Miss Jean, BA K.C.N.S.  
Pitt, Miss D. G., BA Mt. All.  
Freeman, D., BA Oxon., GradCertEd Leic.  
Widdowson, J. D. A., BA Oxon.

**Forestry**

- Saunders, G. L., BScF New Br.

**French, see Mod. Langs.**

**Geography**

- Summers, W. F., BSc Dal., MSc  
PhD McG.  
Williams, A. F., BA PhD Bust.

**Geology**

- Brueckner, W. D., PhD Basle  
Hughes, R. D., MA Br Col., PhD Oklahoma  
Papczuk, V. S., MSc Br Col.,  
PhD Mont.  
Lally, H. D., MSc  
Peterson, H. R., MSc Dal.

**German, see Mod. Langs.**

**History**

- Rothney, G. O., BA Bishop's, MA PhD Lond.  
Hagen, F. A., MA Harv., MLitt Camb.  
PhD Calif.  
Panting, G. E., MA Mount  
Schwarz, G. M., BA Wark., MA Cal.

**Mathematics**

- Blundon, W. J., BA Lond., MA Col.  
Fekete, A. E., Dip Bud., MSc Ott.  
McAndrew, Mrs. Dorothy, MA Lond.  
Matthews, Mrs. R., MSc Lond.  
Ayrtman, N., DSc Istanbul  
Butty, J. H., BA(Ed).

**Modern Languages**

- Stokes, J. T., MA Lond., DUParis  
Jackson, H. H., BA Lond., LLD Vienna  
Houston, J., BA Lond., MA Laval  
Smith, D., BA Leeds  
Walkers, N. E., BA Nott.  
Muzychka, S., MA Munich  
Reardon, Mrs. Jane, BEd. Algiers  
Kingstone, B. D., BA Oxon.  
Hare, J., BA Oxon., DipEd R'dg.  
Finer, Miss M. E. M., BA Acad.  
Houston, Ruth, BA Mt. All.

**Philosophy**

- Brown, N. J. P., MA BPhil Oxon.

**Physical Education**

- Eaton, J. D., BPE Tor., MA Col.  
Geestman, Thelma, BSc(PE) McG.  
Foeter, M. J., BA(Ed)  
Savetko, D., BA W Ont.  
Browne, E. P., BPE New Br.  
Barnes, Barbara, BPE New Br.  
Taylor, K., BPE New Br.

**Physica**

Breckon, S W, BSc Qu, PhD McG. Prof  
 Noel, T C, MSc Dal Assoc Prof  
 Cho, C W, BSc Seowl, MA PhD Tor.

Assoc Prof  
 Hunt, J L, BA Qu, MA PhD Tor. Asst Prof  
 Rendell, D H, MSc Dal Asst Prof  
 Smith, P D P, MSc McG Asst Prof

**Political Science**

Morgan, M O, MA Dal & Queen Prof  
 McCorquodale, Mrs S, BA Qu, MA Mac Lectr

**Psychology**

Sullivan, A., BA Queen, MA Dal., BA(Ed) Asst. Prof.  
 Hart, D. S., MA Dal Asst Prof

**Sociology and Anthropology**

Whitaker, I R, MA Camb, DPhil Oxon, FRAI Prof

Krohn, R G, BA St Olaf, MA Minn (Sociol) Asst Prof  
 Iverson, N S, MA Minn (Sociol) Lectr

Spanish, see Mod. Langs.

**EXTENSION (EXTRA-MURAL STUDIES)**

Colman, S J, MA Queen Dir.  
 Colford, G D, BA(Ed) Producer/Dic, Educnl TV & Radio  
 Baird, Edna, BA Dal, BHSc McG Admin Asst to Dir  
 MacEachern, D J, BComm St.F.X. Extension Rep.  
 Pratt, C., BFA Mt.All (Painting) Extension Rep  
 Moore, Vera, BA Mt All, MA Wis Extension Rep  
 Palmer, G L, MA Yale (Drama) Extension Rep  
 Rumboldt, I (Music) Extension Rep

**ADMINISTRATIVE AND OTHER STAFF**

Asst President Helen F Carew Asst to Registrar  
 Dorothy E Pearson, BA Oit Asst to Bursar  
 F X Doyle, BCom St F.X. Library Classifier and Cataloguer  
 Margaret Williams,

BLS Tr, BA Asst Cataloguer P F Moffat,  
 BA Tr Periodicals Librarian Judith S  
 Butler, BA BLS Tr Reference Librarian

**AFFILIATED INSTITUTIONS**

QUEEN'S COLLEGE, St John's, Newfoundland (tel: 1-8-2616) Founded 1841 Provides theol courses for which credit given towards univ BA.  
 Principal—Rev G H Earle, MA Durk

St BRIDE'S COLLEGE, Litledale, St John's,

Newfoundland (tele 8-2220, 8-3047) Founded 1887 Provides arts and educn courses for which credit given towards univ BA and BA(Ed) Principal—Rev. Sr Mary Basil, BA Mt St Vin, MA C.U.A.

**GENERAL INFORMATION**

The Memorial Univ. of Newfoundland was established by an act of the provincial legislature of Newfoundland in 1949

The Memorial Univ. Coll. had been established in 1925 as a war memorial and as an instn. to provide higher educn for the young people of Newfoundland and Labrador. During the first 10 yrs. the Carnegie Corporation of New York provided annual grants towards gen expenses. Thereafter the coll was supported mainly from public funds. In 1934 a teacher trng dept was established to provide a yr of professl trng for prospective teachers. In 1946 a new plan for the trng of teachers was introduced, whereby students in educn combined courses of professl trng. with courses in arts and scis. With the estab. of the univ, teachers may now take a full 4-yr course leading to the degree of bachelor of arts (educn)

**CONSTITUTION** The univ. consists of the chancellor, convocation, bd of regents, senate, fac. councils and the facs. The management, admin. and control of the property, revenue, business and affairs of the univ. are vested in the bd of regents consisting of the chancellor, pres., 2 members elected by convocation and 15 apptd by the lt-governor in council. Academic matters are in general charge of the senate, composed of the chancellor, pres. (who is chairman), dep minister of educn, hds of facs of the univ., 1 rep apptd by each coll or instn. affiliated with the univ., and not more than 6 apptd. or elected under authority of the bd. of regents. Convocation is composed of the chancellor, pres., senate, bd. of regents, all grads of Memorial Univ. Coll, all persons holding academic appts within the univ. whose names are added to the



roll of convocation by the registrar from time to time upon instructions from the pres., and all grades of the univ. The functions of convocation are chiefly effective but it may also consider all questions affecting the well-being and prosperity of the univ., and make representations from time to time on such questions to the senate.

INCOME (1960-61) Total income, \$1,351,261

FACULTIES AND DEPARTS. See p. 265

UNIVERSITY PRECINCT Until the summer of 1961 the univ. occupied bldgs. in a commanding position on the old Parade Ground in St. John's, looking out towards the Southside Hills and the Narrows. Its new bldgs. (comprising arts & admin bldg., sci. & engin. bldg., library and gym and student centre, 2 residences and dining hall) are situated on an estate of about 100 acres just within the St. John's city limits. Plans for further devel. include construction of univ. residences, educn. and appl. sci. bldgs., convocation hall and even to library. It is hoped to complete these by 1970.

LIBRARY 65,000 vols., 1200 serial publishers and periodicals subscribed to

LABORATORIES Biol., chem., engin., foreign lang., geol., phys., speech

ADMISSION. See Appendix III.

FIRST DEGREE 4 yrs. (from jr. matric.)—BA, BA hon. (at present, hon. degrees given in, as major subj., classics, econ., Engl., hist., maths., mod. lang., sociol. & anthropol.), BA(Ed), BCom, BPE, BSc, BSc hon. (at present, hon. degrees given in, as major subj., biol., chem., geol., maths., phys.) 3 yrs. (from jr. matric.)—BCom hon., conjoint degrees of BEd & BA or BEd & BSc.

HIGHER DEGREE At least 1 yr. from bachelor's degree—MA, MSc. At present, instruction for master's degrees given in depts. of biol., chem., Engl., geol., hist., phys.

The univ. does not award EXTERNAL DEGREES

HONORARY DEGREE LL.D., DSc, DLitt

DIPLOMAS 3 yrs. (from jr. matric.)—engin., pre-engin., pre-med., pre-dent., 2 yrs. (from jr. matric.)—forestry. Students who complete dipl. courses in engin., med. or forestry may proceed to other univs. to complete a degree course. 1 yr.—grad. dipl. in educn. for holders of BA or BSc.

CERTIFICATE 2 yrs. (from jr. matric.)—phys. educn.

FEEs For full course (degree, dipl. or cert.), \$215-\$255 p.a.

ACADEMIC YEAR Two semesters: Sept.-Jan., Jan.-May.

EXTENSION (see also 'Teaching Staff', above) A dept. of extension (extra-mural studies) has recently been establd. It will provide extension courses, residential courses, and assist in community development.

SUMMER SESSION Credit towards BA(Ed) given in 6-wk. summer session held in July and Aug., and 3rd yr. courses offered in academic subj. and prof. subj. for teachers.

MILITARY TRAINING Univ. naval trg. div.; Canadian officers trg. corps, royal Canadian air force (univ. reserve trg. plan)

STUDENT HEALTH Annual X-ray for all students, 2 hours of phys. educn. per wk. for 1st-yr. students.

STUDENTS' UNION Non-academic student affairs controlled by council of union, which promotes interests and general welfare of students, finances all student activities, and acts as liaison between student body and univ. admin.

PUBLICATIONS Calendar (annual); students' *Cap and Gown* (yearbook), *The Mirror* (fortnightly newspaper).

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1122	46
Women	635	194
Total	1757	150

Distribution by Faculties, etc. Arts & sci., 408, educn., 1024, engin., 185, forestry, 19, pre-med., 106, gradu., 15, partials, 150. Total 1967

Included in the figures above are:—

Postgraduate students, 15

New admissions, 968

Students from other countries, 3

DIPLOMAS AWARDED (1960-61) BA(Ed), 13, MA, 6; BA hon., 5; BA, 14, BSc hon., 2; BSc, 19; BCom, 3; MSc, 5.

DIPLOMAS AWARDED (1960-61) Educn., 4, engin., 34, pre-med., 11

CERTIFICATES AWARDED (1960-61) Phys. educn., 4

# UNIVERSITY OF MONTREAL\*

Founded 1876

Postal Address P O Box 6128, Montreal 3, Canada  
Cables and Telegrams University of Montreal, Canada  
Telephone . Montreal, Regent 3-9951

CHANCELLOR—H Em PAUL-Émile CARDINAL LEGER, LTh DCL

RECTOR—Rt. Rev Mgr I LUSSIER, Hon LLD Bishop's, Alta, McG, Br Col, Tw. & New Br, LTh LPh Paris

VICE-RECTOR—L. PICHÉ, LScChim PhD, FCIC

SECRETARY GENERAL—... ..

FACULTIES AND DEANS—ARTS—Rev G PLEAS, DENTISTRY—J P LUSSIER, PhD Calif, DDS, FACD (Physiol), HYGIENE—A FRAPPIER, OBE, MD LSc, FRSCan, LAW—M CANON, QC, LLD (Introduction & Philos of Law), LETTERS—P DAGENARS, LScCom LsaL Paris, DUGrenoble, FRSCan (Geog.); MEDICINE—W. BONIN, MD (Histol. & Embryol.), MUSIC—Rev C MORIN, DTh LES Roches; PHARMACY—R. LAROSE, BPhm, PHILOSOPHY—T R P. L. LACHANCE, SThM Le Saulchoir, DPh, PURE SCIENCE—E. PAGÉ, MBE, PhD Corn., BScA, FRSCan (Biol.), SOCIAL SCIENCES, ECONOMICS AND POLITICAL SCIENCE—P GARIBOLDI, BSc(Econ) PhD Lond (Sec & Pol Sci.); THEOLOGY—Rev F PARADIS, DTh

TREASURER—L. CARAUBON

ASSISTANT TO RECTOR—L. LORILL, DScPhys Paris, Hon DSc Ont & Cass, LScChim, FRSCan

REGISTRAR—C. SAINT-ARNAUD, LScPhys MSc PhD

ASSISTANT TO RECTOR AND DIRECTOR OF PUBLIC RELATIONS—A. BACHAND, MS Col, LScCom LLJL

DIRECTOR OF EXTENSION DEPARTMENT—J. HOUDEB, MA Ill, DLSc

LIBRARIAN—J. R. LEDUC, BLS McG

## TEACHING STAFF

Anatomy (normal)		Art, History of	
Blus, M, MD	Prof, Dir. of Dept	Randall, L. V.	Asst. Prof.
Gagnon, R, MD PhD	Assoc. Prof	Audiology, see Sch. of Rehabilitation (p. 280)	
Gagnon, P, MD	Asst. Prof.		
Lessard, J, MD	Asst. Prof.		
Venne, L, MD	Asst. Prof.	Biology	
Anatomy (pathological)		Pagé, E, MBE, PhD Corn., BScA, FRSCan, Prof, Dir. of Dept.	
Riopelle, J.-L., MD	Prof, Dir. of Dept.	Demers, J.-M., DSc Lond, LScA, Assoc. Prof	
Suard, L. C., MD, FRSCan	Prof.	Piriot, F., LPhL LScZool Louvain, PhD DSc Lond	
Lévesque, S., MD	Assoc. Prof.	Isler, H. G., IngChim DSc Geneva	
Berdnukoff, G., MD	Asst. Prof.	Robert, Rev. A., LScNat LPéd DSc	
Gagnon, J. A., MD	Asst. Prof.	Coulard, P., BSc Lond, PhD Penn.	
Gareau, R., MD	Asst. Prof.	Jolicœur, P., MA Br Col.	
Jesmin, G., MD PhD	Asst. Prof.	Moximann, J. E., PhD Mich.	
Martin, P., MD	Asst. Prof.	Botany	
Thénault, J.-P., MD	Asst. Prof.	Beaudry, J.-R., MSc McG, PhD Wis, LScA	
Anthropology, see Social and Political Science		Branel, J., LScNat	
Applied Science, see Affiliated Instns., below		Gauthier, R., MSc Corn., LScNat DSc	

\* Member of the Association of Universities of the British Commonwealth

Rouleau, E., LScNat MSc PhD  
 Caillou, M., LSc

Prof  
 Assoc. Prof

### Canadian Literature

LeGrand, A., MA PhD

Prof

### Chemistry, see also Affiliated Instns., below

Fève, H., DScTech IngChim  
 DipIEPP Zür., FCIC Prof., Dir. of Dept.  
 Rinfret, M., LScPhys, FCIC Prof.  
 Sendorfy, C., DSc Paris, LSc Szeged,  
 PhD, FCIC Prof.  
 Piché, L., LScChim PhD, FCIC Prof.  
 Baré, R., DScPhys Paris, BPharm LScChim  
 Prof.  
 Berse, C., DSc Zür Assoc. Prof.  
 Cartier, P., LScChim Assoc. Prof.  
 Heumann, W., DSc Prague Assoc. Prof.  
 Rivest, R., BScChim DSc Assoc. Prof.  
 Bourgon, M., LScChim PhD Assoc. Prof.  
 Doucet, H., BScChim PhD Assoc. Prof.  
 Patterson, D., MSc McG., BScMath  
 BScPhys Asst. Prof.  
 Sienice, Y., BA BScChim PhD Asst. Prof.  
 Richer, J. C., BScChim PhD Asst. Prof.

### Classics

de Groot, J., DLett Utrecht Prof., Dir. of Dept.

### Commerce, see Affiliated Instns., below

### Criminology, see Social and Political Science

### Dentistry, see below

### Economics, see Social and Political Science

### Engineering, see Affiliated Instns., below

### English Language and Literature

Brouse, R., MA Cal., PhD C U A.  
 Prof., Dir. of Dept.  
 Buch, T.-A., MA Lérn., DPéd Asst. Prof.  
 De Groot, H., MA Asst. Prof.  
 Hoed, H.-J., MA PhD Tor. Asst. Prof.  
 Roy, G., DUParis, MA PhD Asst. Prof.

### French Language and Literature

LeGrand, A., MA PhD Prof.  
 Gagnon, Rev. E., LLett Assoc. Prof.  
 Besette, E., DLett Rome Asst. Prof.  
 Duprix, B., LLett Louvain, DUParis Asst. Prof.

### Geography

Dagenna, P., LScCom LèsL. Paris,  
 DUGrenoble, FRSCan Prof., Dir. of Dept.  
 Bélanger, M., DUGrenoble, LLett Assoc. Prof.  
 Garry, R., LL.L. DipEd'Exp Paris Assoc. Prof.  
 Laverdière, C., MA Asst. Prof.

### Geology, see also Affiliated Instns., below

Tiphane, M., BScA Laval, MSc McG.  
 Assoc. Prof.  
 Carbonneau, C., PhD McG Lectr.

### German, see Mod. Langs.

### History

Brunet, M., PhD Clark, BEd LScSoc  
 MA Prof., Dir. of Dept.  
 Segum, M., DLett Prof.  
 Lamontagne, R., MA PhD Assoc. Prof.  
 Papillon, Rev. A., DTh Pontif Athen  
 Angichew, DipArchiv Greg Assoc. Prof.  
 Blum, J., LLett Asst. Prof.  
 Falmagne, Mrs. Thérèse, DLett Asst. Prof.

### Hungarian, see Slavic Studies

### Hygiene, School of

Frappier, A., OBE, MD LSc, FRSCan Prof.  
 Charbonneau, Gabrielle, MScNEd Wash Prof.  
 Charbonneau, J.-H., MD Prof.  
 Foley, A.-R., DPH Johns H., BL  
 MD Laval Prof.  
 Gilbert, J., DPH Johns H., MD Prof.  
 Groulx, A., MD Laval, DPH Tor. Prof.  
 La Salle, G., DHA Tor., MD Prof.  
 Pansset, M., DocVét Paris, Hon. DMV,  
 FRSCan Prof.  
 Plante, L., MPH Yale, LPéd LScS MA Prof.  
 Sylvestre, J.-E., DPH Tor., BSc MD Prof.  
 Tourangeau, F.-J., DPH Tor., CPH Harv.,  
 MD Prof.  
 Valois, A.-B., MPH Johns H., MD Prof.  
 Archambault, J., BA DScA IC Assoc. Prof.  
 Beaupré, B., MASC Tor., MSc Harv.,  
 BScA Assoc. Prof.  
 Borduz, M. A., DSc Assoc. Prof.  
 Charest, G., MD MPH Johns H.,  
 DPH Tor. Assoc. Prof.  
 Cyr, R., BA BScA IC Assoc. Prof.  
 Forté, L., BPharm MSc Assoc. Prof.  
 Genid, Alce, CPHN Tor., BScNEd Wash.,  
 MA Cal. Assoc. Prof.  
 Landreville, A., MPH Johns H., MD BA Assoc. Prof.  
 Marcotte, J.-E.-A., MD Assoc. Prof.  
 Pavlana, V., MD Kansas Assoc. Prof.  
 Jeanne-Mance, Rev. Sr., DHA Tor., MA Assoc. Prof.  
 Plamondon, S., MSc Harv., BScA Assoc. Prof.  
 Roy, A., MA Cal., IH BScInf Assoc. Prof.  
 Steinberg, J., MD Buckinst, MSc Assoc. Prof.  
 Bouchatsky, G., LicEP Louvain Asst. Prof.  
 Boutin, J. R., MD Asst. Prof.  
 Davignon, L. F., MPH Harv., MD Asst. Prof.  
 Dorris, L., MBA Chic., LPs Asst. Prof.  
 Decoschuk, E., BPE Bt Cal., MSc III Asst. Prof.  
 Hogue, J. P., PhD IF Reserve, LPs Asst. Prof.  
 Houde, G., MPEH Flo Asst. Prof.  
 Sauvé, L., LLH Asst. Prof.

Industrial Relations, see Social and Political Science

Italian, see Mod. Langs.

Law, see below

Linguistics, Phonetics and Translation

Vinsky, J.-P., *Lit.L. Paris, MA Lond.*,  
FRSCan Prof., Dir. of Section  
Charbonneau, Abbé R., *Dipl. Inst.dePhon.*,  
Paris Asst. Prof.  
Hanna, B. T., MA Asst. Prof.  
Lefebvre, G., *Dip.Ethnol Paris, MA*  
PhD Asst. Prof.

Mathematics

Gauthier, A., MA *Col.*, LScPhys LScMath Prof  
L'Abbé, M., MA PhD *Paris*, LScMath  
Prof., Dir. of Dept  
Saint-Pierre, J., PhD *N.Carolina*, LScPhys  
LScMath MSc Prof.  
Brossard, R., LScMath MSc Asst. Prof.  
Fox, G., MA *Br Col.*, PhD *McG.* Asst. Prof.  
Guy, R., LScMath *Genève*, DSc *Paris*  
Asst. Prof.  
Maranda, J., MA *Tor.*, PhD *McG.*,  
BScMath Asst. Prof.  
Therrien, G., DSc *Fré. & Paris*, LSc  
Asst. Prof.  
Daignault, A., PhD *Paris*, BScMath Asst. Prof.  
Joffe, A., PhD *Corn.*, LScMath LScAct  
Asst. Prof.  
Lachapelle, B., BA BScMath Asst. Prof.  
LeBlanc, L., PhD *Que.*, BScMath  
MSc Asst. Prof.  
Zanger, A., BScMath PhD Asst. Prof.  
Robert, P., CertMathGen *Paris*, BA Asst. Prof.

Medicine, see below

Mineralogy, see Geol., and Affiliated Instns., below

Modern Languages (German, Spanish and Italian)

de Groot, J., DLett *Utrecht* Prof.  
Cardenas, A., LL.L. *Madrid* Prof.  
Fischer, A., DLett *Munich* Asst. Prof.  
Hermengildo, A., LL.L. *D.Ram.Philol Madrid*  
Asst. Prof.

Music, see also Attached Instns., below

Teachers

Aubert, Françoise  
Beaudry, J.  
Cloutier, J. M.  
Cusson, G.  
Desautels, Andrée  
Graton, F.  
Lamencelle, M.  
Leclerc, H.

Leensens-Heyman, Ria  
Letendre, C.  
Moulin, Rev. C., DTh *LES Rome* Prof.  
Papillon, Rev. A.  
Papineau-Couture, J.  
Pinsoneault, B.  
Renshaw, Roastie  
Rochefort, E.  
Valterand, J.

Orthophonics, see Sch. of Rehabilitation (p. 280)

Pathology, see Anat. (pathol.)

Pharmacology, see Medicine, below

Pharmacy

Baré, R., BPhm DSc Prof.  
Labarre, J., BPhm DSc Prof.  
Martin, E.-A., DSc Prof.  
Archambault, A., DPhm *Paris*, BPhm  
Asst. Prof.  
Larose, R., BPhm Asst. Prof.  
Ploasche, R., MPhm Asst. Prof.  
Mocille, J. A., DPhm *Paris*, BPhm Asst. Prof.  
Rogel, F., MPhm MSc Asst. Prof.  
Bergeron, L., BPhm Asst. Prof.  
Brossard, M., MPhm Asst. Prof.  
Codeiro, B. Asst. Prof.  
Franchette-Mammer, M. R., DPhm *Paris*,  
BPhm Asst. Prof.  
Geoffrion, B. Asst. Prof.  
Lafontaine, C., DPhm *Paris & Montr.* Asst. Prof.  
Lévesque, R., DPhm *Paris*, BPhm Asst. Prof.  
Loid, R., BPhm Asst. Prof.  
Martel, H., BPhm Asst. Prof.  
Melançon, S., BPhm Asst. Prof.  
Roy, P. G., MSc *Leyala*, PhD *Purdue*,  
BPhm Asst. Prof.  
Salvador, R., DPhm *Purdue*, MPhm Asst. Prof.

Philosophy, see below

Phonetics, see Linguistics

Physical and Occupational Therapy, see Sch. of Rehabilitation (p. 280)

Physics

Lorrain, P., BSc PhD *McG.* Prof., Dir. of Dept.  
Demers, P., DScPhys *Paris*, LScMath&Phys  
MSc, FRSCan Prof.  
Bélair, R., LScChem&Phys MSc Asst. Prof.  
Labonté, Rev. G., LScPhys LTh LPh  
MSc Asst. Prof.  
Lapointe, S., PhD *Corn.*, BScPhys MSc  
Asst. Prof.  
Boze, A., MSc *Cal.*, DrRerNat *Gott* Asst. Prof.  
Levesque, J. R., BSc *SirG.Will.*,  
PhD *Northwestern* Asst. Prof.  
Paquette, G., MA PhD *Br Col.*, BScPhys  
Asst. Prof.  
Reeves, H., MSc *McG.*, PhD *Corn.*,  
BScPhys Asst. Prof.

<b>Physiology</b> , see <i>Medicine</i> , below	Raymond, A., DDS	Prof
<b>Polish</b> , see <i>Slavic Studies</i>	Genest, A., MD DDS	Asst. Prof.
<b>Political Science</b> , see <i>Social and Political Science</i>	<b>Diagnosis and Radiology</b>	
<b>Russian</b> , see <i>Slavic Studies</i>	Fontaine, J. N., DDS	Prof
<b>Slavic Studies</b>	Donohue, W. B., DDS	Asst. Prof.
Domanadzki, T.-F., LPh DipScPol Warsaw, D.Lett Rome	<b>Endodontics</b> , see <i>Operative Dent</i>	
Pletnev, R., D.Lett Prague	<b>History of Dental Surgery</b>	
Guberschnikov, V., MA PhD	Forster, A., DDS	Assoc. Prof.
Lalich, V., MA PhD	<b>Materia Medica</b>	
Radwanski, P., LPh DSc Cracow	Salbert, H., DDS	Asst. Prof.
<b>Social and Political Science</b> , see below	<b>Operative Dentistry and Endodontics</b>	
<b>Spanish</b> , see <i>Mod. Langs.</i>	Duschfines, G.-H., DDS	Prof.
<b>Theology</b> , see below	Yergens, J., DDS	Assoc. Prof.
<b>Translation</b> , see <i>Linguistics</i>	Salbert, H., DDS	Asst. Prof.
<b>Ukrainian</b> , see <i>Slavic Studies</i>	<b>Orthodontics</b>	
	Geoffrison, P., DDS, FACD	Prof.
	Bail, C., DDS	Assoc. Prof.
	<b>Pedodontics</b>	
	Perreault, G., DDS	Assoc. Prof.
	<b>Periodontics</b>	
	Pellener, G., DDS	Asst. Prof.
	<b>Physiology</b>	
	Lussier, J. P., PhD Calif., DDS, FACD	Prof.
	<b>LAW</b>	
	<b>Accounting</b>	
	Girard, R., LSc	Lect.
	<b>Administrative and Constitutional Law</b>	
	Beets, J., MA Oron., LL	Assoc. Prof.
	Hurtubise, R., BA Oron., LL	Asst. Prof.
	Desjardins, A., LL	Lect.
	<b>Air Law</b>	
	Mateesco, N., LL D Paris	Asst. Prof.
	<b>Civil Law</b>	
	Caron, M., LL	Prof.
	Mayrand, A., QC, LL LSP	Prof.
	Comtois, R., LL	Prof.
	Martineau, P., LL	Assoc. Prof.
	Lefebvre, D., LL D Paris	Asst. Prof.
	Poussier, M., LL D Paris	Asst. Prof.
	Lippé, Justice R., LL	Lect.
	<b>Civil Procedure</b>	
	Perland, P., LL	Assoc. Prof.
	Perreault, C., LL	Assoc. Prof.
	Taschereau, L. P., LL	Assoc. Prof.
	Guéna, G., LL	Asst. Prof.

## DENTISTRY

## Anesthesiology

Raymond, A., DDS	Prof
Clemon, M., MD, FRCP	Assoc. Prof.
Coulombe, L., MD	Lect.

## Crown and Bridge Prosthesis

Robichaud, H.-M., DDS	Prof
Trotter, J.-P., DDS MScDent	Prof.

## Dental Anatomy

Gauthier, G., DDS, FACD	Prof.
Bussières, J., DDS	Prof.

## Dental Hygiene

Boeillon, J. C., DDS MPH	Asst. Prof.
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## Dental Jurisprudence

Mayrand, A., QC, LL LSP	Prof.
-------------------------	-------

## Dental Metallurgy

Patenaude, C., DDS	Prof.
--------------------	-------

## Dental Pathology

Mead, Z., MD DDS	Prof.
------------------	-------

## Dental Prosthesis

Nadeau, J., DDS	Prof.
Patenaude, C., DDS	Prof.

## Dental Surgery

de Montigny, G., DDS MScDent, FACD	Prof.
------------------------------------	-------

<b>Commercial Law</b>		Brunet, J.-L., MD	Asst. Prof.
Bauleu, R., BCL	Asst. Prof.	Cousineau, G., MD	Asst. Prof.
Laprade, L., LLL	Asst. Prof.	Dubois, M., MD	Asst. Prof.
<b>Criminal Law</b>		Fortin, G., MD	Asst. Prof.
<b>Lagarde, Judge I., LLD</b>		Gagnon, R., MD	Asst. Prof.
<b>Economics</b>		Lapointe, J., MD	Asst. Prof.
Le Belle, Y., LLL <i>DésEcon Paris</i>	Asst. Prof.	Legault, L., MD	Asst. Prof.
<b>Fiscal Legislation</b>		Mignault, G., MD	Asst. Prof.
Cardinal, J. G., MA LLD	Assoc. Prof.	<b>Bacteriology</b>	
Lemay, H.-P., LLB LScCem LSP	Asst. Prof.	Frappier, A., MD LSc, TRSCan	Prof., Dir. of Dept
<b>History of Law</b>		Sonea, S., MD	Prof.
Moel, A., LLD <i>Paris, MA</i>	Asst. Prof.	Prodetto, V., BPharm DSc	Assoc. Prof.
<b>Industrial Legislation</b>		Martineau, B., MD	Assoc. Prof.
Montpetit, Hon. A., LLL	Assoc. Prof.	Doenne, P., MD	Asst. Prof.
<b>Insurance</b>		Leduc, A., MD	Asst. Prof.
Mercier, F., LLL	Assoc. Prof.	Nogady, G., MD	Asst. Prof.
<b>International Law</b>		Saint-Martin, M., MD	Asst. Prof.
Motin, J.-Y., LL.M. <i>S Methodist, DiplInternatLaw Camb., MA</i>	Asst. Prof.	<b>Biochemistry</b>	
<b>International Private Law</b>		Bouthillier, L. P., MSc PhD	Prof.
...	Asst. Prof.	Gagnon, A., MD LSc	Prof.
<b>Introduction and Philosophy of Law</b>		Bourgault, J. M., MD	Assoc. Prof.
Caron, M., QC, LLD	Prof.	Boussane, N., MD MSc PhD	Assoc. Prof.
<b>Medical Jurisprudence</b>		Gianetto, R., PhD	Asst. Prof.
Roussel, J. M., MD	Lectr.	Lechance, J. P., DSc	Asst. Prof.
<b>Municipal Law</b>		<b>Dermatology</b>	
Comtois, R., LLL	Prof.	Leclerc, G., MD	Prof.
<b>Notarial Procedure</b>		Possy, J.-P., MD	Assoc. Prof.
Comtois, R., LLL	Prof.	Beilangeon, Y., MD	Asst. Prof.
Cardinal, J. G., LLD	Assoc. Prof.	Lambert, A., MD	Asst. Prof.
<b>Parish Law</b>		Panaccio, V., MD	Asst. Prof.
Cardinal, J. G., LLD	Assoc. Prof.	Turgeon, P., MD	Asst. Prof.
<b>Roman Law</b>		<b>Endocrinology and Experimental Medicine and Surgery</b>	
Morel, A., LLD <i>Paris, MA</i>	Asst. Prof.	Selye, H., MD PhD <i>Prague, DSc McG., FAAAS, FRSCan</i>	Prof.
<b>School Law</b>		<b>Gynecology</b>	
Comtois, R., LLL	Prof.	Meunier, P., MD	Prof.
<b>MEDICINE</b>		Magnan, A., MD	Assoc. Prof.
(for subjects of first 2 yrs.—Anat., etc., see above)		Oumet, C., MD	Assoc. Prof.
<b>Anæsthesia</b>		Simard, Raymond, MD	Assoc. Prof.
Longtin, L., MD	Prof.	Simard, Roland, MD	Assoc. Prof.
Lemoureux, L., MD	Assoc. Prof.	Coimier, A., MD	Asst. Prof.
<b>History of Medicine</b>		Gauthier, J., MD	Asst. Prof.
<b>Canada</b>		Lapointe, R., MD	Asst. Prof.
<b>Canada</b>		<b>Histology and Embryology</b>	
<b>Canada</b>		Bonn, W., MD	Prof., Dir. of Dept
<b>Canada</b>		Frappier, J., MD LSc	Prof.
<b>Canada</b>		Potter, L., MSc PhD <i>Mich., MD</i>	Prof.
<b>Canada</b>		Bélanger, Y., MD	Assoc. Prof.
<b>Canada</b>		Burns, L., MD	Asst. Prof.
<b>Canada</b>		Levine, A., MD	Asst. Prof.
<b>Canada</b>		Mouron-Mathieu, A.-M., MD	Asst. Prof.
<b>Canada</b>		Ramillat, G., MD MSc PhD	Asst. Prof.
<b>Canada</b>		Richer, C., LSc, MD MSc	Asst. Prof.

**Legal Medicine and Toxicology**

Roussel, J.-M., MD

Prof.

**Materia Medica**

Dufresne, R., MD

Prof.

**Medical Ethics**

Marcotte, Rev. M.

Lectr.

**Medicine**

Dufresne, R., MD

Prof., Dir. of Dept.

Beauregard, J. M., MD LSc

Prof.

Dussault, R., MD

Prof.

Grignon, C. E., MD

Prof.

Letendre, P., MD

Prof.

Prévost, J., MD

Prof.

Robert, P., MD

Prof.

Baillargeon, B., MD

Assoc. Prof.

Bernier, J., MD

Assoc. Prof.

Blus, J.-A., MD

Assoc. Prof.

Chaput, Y., MD

Assoc. Prof.

David, P., MD

Assoc. Prof.

Dumas, P., MD

Assoc. Prof.

Dutivage, J., MD

Assoc. Prof.

Fortier, L., MD

Assoc. Prof.

Genest, J., MD

Assoc. Prof.

Gaston, A., MD

Assoc. Prof.

Gagnon, J., MD

Assoc. Prof.

Hébert, G., MD

Assoc. Prof.

Joncas, F., MD

Assoc. Prof.

Julien, P.-P., MD

Assoc. Prof.

Lafabvre, R., MD

Assoc. Prof.

Léger, J., MD

Assoc. Prof.

Long, L., MD

Assoc. Prof.

Morissette, L., MD

Assoc. Prof.

Adamkiewicz, Lydia, MD

Asst. Prof.

Bélisle, M., MD

Asst. Prof.

Brads, P., MD

Asst. Prof.

Casgrain, G., MD

Asst. Prof.

Charbonneau, R., MD

Asst. Prof.

Chastin, M., MD

Asst. Prof.

Chauvette, G., MD

Asst. Prof.

Cléroux, A., MD

Asst. Prof.

Dagenais, Y.-M., MD

Asst. Prof.

Dermers, R., MD

Asst. Prof.

Derome, L., MD

Asst. Prof.

Donlingue, C., MD

Asst. Prof.

Dorigny, P., MD

Asst. Prof.

Duquette, J., MD

Asst. Prof.

Gagnon, J.-O., MD

Asst. Prof.

Germann, G., MD

Asst. Prof.

Gillioetto, O., MD

Asst. Prof.

Gilbert, Ghislaine, MD

Asst. Prof.

Gosselin, B., MD

Asst. Prof.

Gosselin, G., MD

Asst. Prof.

Gaston, J., MD

Asst. Prof.

Grégoire, F., MD

Asst. Prof.

Johanson, R., MD

Asst. Prof.

Kakos, A., MD

Asst. Prof.

Kaluda, M., MD

Asst. Prof.

Lachance, G., MD

Asst. Prof.

Lanthier, A., MD

Asst. Prof.

Lassabre, F., MD

Asst. Prof.

Lebel, L., MD

Asst. Prof.

Lecleir, M., MD

Asst. Prof.

Leduc, G., MD

Asst. Prof.

Leduc, P. E., MD

Asst. Prof.

Léger, F., MD

Asst. Prof.

Lemieux, G., MD

Asst. Prof.

Lessard, J.-M., MD

Asst. Prof.

Loisange, G., MD

Asst. Prof.

MacKay, A., MD

Asst. Prof.

Marson, P., MD

Asst. Prof.

Mathieu, J., MD

Asst. Prof.

Mignault, J., MD

Asst. Prof.

Pichette, L. P., MD

Asst. Prof.

Piette, Y., MD

Asst. Prof.

Provost, G., MD

Asst. Prof.

Pud'homme, J., MD

Asst. Prof.

Quenneville, G., MD

Asst. Prof.

Renzi, L., MD

Asst. Prof.

Robillard, R., MD

Asst. Prof.

Rouleau, Y., MD

Asst. Prof.

Séguin, P., MD

Asst. Prof.

Thibert, F., MD

Asst. Prof.

Tramblay, J., MD

Asst. Prof.

Vaillancourt, De G., MD

Asst. Prof.

**Neurology**

Saucier, J., MD

Prof.

Amyot, R., MD

Prof.

Desrochers, J.-L., MD

Assoc. Prof.

Barbeau, A., MD

Asst. Prof.

Courton, G., MD

Asst. Prof.

Gauthier, C., MD

Asst. Prof.

**Obstetrics**

Fessan, M., MD

Assoc. Prof.

Fortier, J., MD

Assoc. Prof.

Gagnier, M., MD

Assoc. Prof.

Le Roy, A., MD

Assoc. Prof.

Rioux, H., MD

Assoc. Prof.

Tétrault, J., MD

Assoc. Prof.

Attendu, C.-A., MD

Asst. Prof.

Bachand, M., MD

Asst. Prof.

Bouleau, P.-A., MD

Asst. Prof.

Bourgeois, B., MD

Asst. Prof.

Desrosiers, L., MD

Asst. Prof.

Ducharme, G., MD

Asst. Prof.

Gagnon, J., MD

Asst. Prof.

Gibault, H., MD

Asst. Prof.

Journet, L., MD

Asst. Prof.

L'Archevêque, M., MD

Asst. Prof.

Provost, A., MD

Asst. Prof.

Sansregret, E., MD

Asst. Prof.

Vadeboncoeur, R., MD

Asst. Prof.

**Ophthalmology**

Cloutier, R., MD

Prof.

Blais, E., MD

Assoc. Prof.

Brault, J., MD

Assoc. Prof.

Charbonneau, R., MD

Assoc. Prof.

Henry, F., MD

Assoc. Prof.

Demers, A., MD

Asst. Prof.

Lapointe, R., MD

Asst. Prof.

Montfau, C., MD

Asst. Prof.

Paron, L., MD  
Seidl, P., MD

**Oto-Rhino-Laryngology**

Montreuil, F., MD  
Guertin, P., MD  
Badeau, J., MD  
Béclue, M., MD  
Berthiaume, C. A., MD  
Blais, R., MD  
Brunelle, P., MD  
Dubuc, H., MD  
Hunt, L., MD  
Lefrancis, V., MD

**Pediatrics**

Charbonneau, H., MD  
Gauthier, A., MD  
Bombardier, J.-P., MD  
Labrecque, R., MD  
Piette, J., MD  
Royer, A., MD  
Archambault, R., MD  
Baril, E., MD  
Brodeur, P., MD  
Chaconne, L., MD  
Dagenais-Pérusse, P., MD  
Ducharme, J.-R., MD  
Duplessis, J., MD  
Gauthier, L.-J., MD  
Gerardin, G., MD  
Haard, G., MD  
Johvet, G., MD  
Laberge, E., MD  
Langevin, P., MD  
Larivière, P.-M., MD  
Léonard, C., MD  
Léveillé, A., MD  
Maitel, J.-A., MD  
Paquet, J. A., MD  
Proulx, J.-L., MD  
Poirier, R., MD  
St Laurent, G., MD  
Thibodeau, L.-P., MD  
Tudel, H., MD

**Pharmacology**

Bémolin, A., MD  
Bou, P., MD  
Roy, P.-G., PhD

**Physiology**

Paquette, P., MD  
Pilon, L., MD  
Jarry, G., MD  
Vasschelden, M., MD

**Physical Medicine**

Gingras, G., MD  
McGee, M., MD

Asst Prof  
Asst Prof

**Physiology**

Robillard, E., MD  
Adamkiewicz, V., PhD  
Lussier, J. P., DDS MSc PhD Calif.

Prof., Dir. of Dept  
Assoc Prof

Cordeau, J. P., MD  
McGraw, J.-Y., MD DSc  
Rosenberg, Edith E., MD PhD

Assoc Prof  
Assoc Prof  
Asst Prof

**Psychiatry**

Boulanger, J.-B., MD MA  
Côté, F., MD  
Laurin, C., MD  
Lemaux, R. R., MD  
Stern, K., MD  
Beaudou, G., MD  
Bordeleau, J. M., MD  
Brossier, M., MD  
Cloutier, F., MD  
Damas, C., MD  
Fortin, J. N., MD  
Labrecque, J.-P., MD  
Laurin, D., MD  
Lefebvre, P., MD  
Pannetier, L., MD  
Vasquez, J., MD

Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.

**Radiology**

Jutras, A., MD  
Brodeur, P., MD  
Dufresne, O., MD  
Léger, J.-L., MD  
Longtin, M., MD  
Ponsonnault, G., MD  
Vallée, A., MD  
Vallée, I., MD  
Dufresne, M., MD  
L'Abbé, R., MD  
Levesque, E. P., MD  
Méthot, Y., MD  
Trépanier, A., MD

Prof  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.

**Surgery**

Lamoureux, M., MD  
Bruneau, J., MD  
Desjardins, E., MD  
Lefrançois, C., MD  
Archambault, F., MD

Prof., Dir. of Dept  
Prof  
Prof  
Prof  
Prof

Bertrand, C., MD  
Carber, G.-E., MD  
Cholette, J.-P., MD  
Favreau, C., MD  
Gagnon, E., MD  
Ricard, P.-M., MD  
Archambault, L., MD  
Bastien, G., MD  
Beaudou, L., MD  
Béclue, L., MD  
Bergeron, L., MD  
Bisson, C., MD  
Cebana, J.-E., MD  
Champoux, R., MD  
Charbonneau, P.-E., MD

Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.





Dofny, J, <i>Lécl. Paris</i>	Assoc Prof
Ouhérou, G, <i>BPh MA</i>	Assoc Prof
Ellenberg, H, <i>MD Paris</i>	Assoc Prof
Elkin, F, <i>MA PhD Chic</i>	Assoc Prof
Govenlock, Abbe S, <i>MSSW C U A</i> , LTh	Assoc Prof
Hennipin, J, <i>DScEcon Paris</i>	Assoc Prof
Lacoste, Abbe N, <i>LTh LScPol Louvain</i>	Assoc Prof
Mathieu, Marguerite, <i>BSW McG</i>	Assoc Prof
Matoszewski, T, <i>MA Lond</i>	Assoc Prof
Ravnauld, A, <i>DScEcon Paris, MRI</i>	Assoc Prof
Roux, M, <i>BA Lond</i>	Assoc Prof
Sabo, D, <i>DScPol&amp;Soc Louvain</i> , <i>Dipl&amp;T Sup Paris</i>	Assoc Prof
Thur, O, <i>BA Bnd, LScCom LScPol Louvain</i>	Assoc Prof
Zav, N, <i>LLD LScPol Bnd, MSS</i>	Assoc Prof
Balkei, A, <i>LScEcon LScSoc</i> <i>LScGéog Geneva</i>	Assoc Prof
Beausoleil, G, <i>MA Lond</i>	Assoc Prof
Bourassa, G, <i>MA Lond</i>	Assoc Prof
Breton, A, <i>BA Maur</i>	Assoc Prof
Dabuc, A, <i>BA Lond, LLD</i> <i>LScPol&amp;Soc Louvain</i>	Assoc Prof
Gaudon, H, <i>LPh MA Ott</i>	Assoc Prof
Lalande, G, <i>DUGénéral, BCom</i>	Assoc Prof
Maison, G, <i>MA(RI)</i>	Assoc Prof
Rousseau, Claire, <i>BA MSS</i>	Assoc Prof
Séguin, R, <i>MA Lond</i>	Assoc Prof
Thomson, D C, <i>BA Alie, Dipl&amp;T Pol</i> <i>DésL Paris</i>	Assoc Prof
Thur, Mrs O, <i>BA Bnd, LLD</i> <i>LScPol&amp;Dipl Louvain</i>	Assoc Prof
Tolstoy, P, <i>PhD Cal</i>	Assoc Prof
Toussaint, J P-B, <i>Dipl Inst d'Et Pol</i> , <i>Paris</i>	Assoc Prof
Tremblay, L M, <i>MS&amp;S(RI) Lond</i>	Assoc Prof

Trounbers, A, <i>LAnthrop DAnthrop Ley</i>	Assoc Prof
Vannier, N, <i>MSS</i>	Assoc Prof

## THEOLOGY

Paradis, Rev F, <i>DTh</i>	Prof
Bolté, Rev P-E, <i>DTh LScS Lond</i>	Prof
Desnoes, Rev J-B, <i>DTh DPh Rome</i>	Prof
Dorris, Rev R, <i>DTh Rome</i>	Prof
Fournier, Rev R., <i>DTh</i>	Prof
Leclerc, Rev R., <i>DTh Rome</i>	Prof
Morin, Rev C., <i>DTh LES</i>	Prof
Savé, Rev L., <i>DPh Rome, LTh</i>	Prof
Yelle, Rev G., <i>DTh Rome</i>	Prof
Bertrand, G., <i>LTh</i>	Assoc Prof
Boucher, Rev E., <i>DPh LTh</i>	Assoc Prof
Bourassa, Rev F.	Assoc Prof
Breton, Rev O., <i>LTh</i>	Assoc Prof
Brousseau, Rev R., <i>LTh DPh</i>	Assoc Prof
Delhaye, Rev P., <i>DTh DPh</i>	Assoc Prof
Dubois, Rev M.	Assoc Prof
Fauy, Rev L., <i>LTh</i>	Assoc Prof
Fontin, Rev B.	Assoc Prof
Gaudet, Rev R., <i>LTh</i>	Assoc Prof
Gauthier, Rev R., <i>DTh</i>	Assoc Prof
Gianche, Rev C., <i>LTh</i>	Assoc Prof
Lalande, Rev G., <i>LChG</i>	Assoc Prof
Laroc, Rev T., <i>LTh LES</i>	Assoc Prof
Léclerc, Rev J., <i>MA DPh</i>	Assoc Prof
Léveillé, Rev P., <i>LTh LPh</i>	Assoc Prof
Martucci, Rev J., <i>LTh LES</i>	Assoc Prof
Moore, Rev R., <i>LTh LPh</i>	Assoc Prof
Myre, Rev P., <i>LTh</i>	Assoc Prof
Poirier, Rev L., <i>DTh</i>	Assoc Prof
Poisson, Rev G., <i>LTh LDC</i>	Assoc Prof
Sagnon, Rev B., <i>LTh DDC</i>	Assoc Prof
Tremblay, Rev D., <i>LTh LES</i>	Assoc Prof

## ADMINISTRATIVE AND OTHER STAFF

Chapman, Rev G Bélanger Treasury, P  
Huet, Asst Treasurer Internal Auditor, D  
Clairoux Accounting R Beaulieu Maintenance of Bldgs O J Gratton Purchasing G

Bourgeois Students' Association G Lefebvre  
Placement M Cleuter Students' Residence  
and Social Centre L Lenoir

## AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE OF OMA, Le Trappe,  
P Q Founded 1893. Provides complete courses  
for LSA and BSA of the univ. Dir.—Most Rev  
Father Dom P Gaboury, DSA

CLASSICAL STUDIES See below.

INSTITUTE OF FAMILY PEDAGOGY AND HOME  
ECONOMICS, 1410 Mont-Royal Blvd., Outremont,  
8 (tel. Montreal, Crescent 6-2016) Founded  
1942. Provides complete courses for BPh of the  
univ. Directress—Sr. Marie-Thérèse-de-la-Croix

MARGUERITE D'YVOILLE INSTITUTE (a higher  
school of nursing), 1185 Saint-Mathieu St,

Montreal, 25 (tel. Montreal, Wellington 5-1182).  
Founded 1934. Provides complete courses for  
BScInf of the univ. Directress—Sr. Denise  
Lefebvre, MS&NEd C.U.A., DPéd 42 other  
Profes. and Assts

NORMAL SCHOOL FOR SECONDARY TEACHING,  
3880 Chemin de la Côte-des-Neiges, Montreal, 25  
(tel. Montreal, Wellington 5-8813). Founded  
1941. Provides complete courses for BPéd,  
LPéd, DPéd of the univ. Dir.—Rev. G. Penas

PEDAGOGICAL INSTITUTE, 4873 Westmount Ave.,  
Montreal, 6 (tel. Montreal, Wellington 5-7388).  
Founded 1926. Provides complete courses for

BPéd, LPéd, DPéd of the univ. Directress—Sr. Sainte-Madeleine du Sacré-Cœur, LLeat LPéd

POLYTECHNIC SCHOOL, 2300 Guyard St., Montreal, 26 (tel.: Montreal, Regent 9-2451). Founded in 1874. Provides complete courses for BScA, MScA and DScA of the univ. in the following engin. options: chem, civil, elect., geol., mech., metall., mining and phys. engin. Principal—J. Bouchet Du—H. Gaudetoy, SB MIT, Hon LLD Tw., Hon. DSc Lovel, BScA. 137 Profs., Assoc. Profs. and Asst. Profs.

ST GEORGE PEDAGOGICAL INSTITUTE FOR MEN, Mont-de-la-Salle, Laval-de-Rapides, 9 (tel.: Montreal, Montcalm 4-3200). Founded 1919. Provides complete courses for BPéd, LPéd, DPéd of the univ. Du—R. P. Charles, MScEd Fordham, DPéd

SCHOOL OF HIGHER COMMERCIAL STUDIES, 535 Viger Ave., Montreal, 24 (tel.: Montreal, Victor 2-3486). Founded in 1907. Provides complete courses for BScCom, LScCom, LSc

Comptables, LScAct and DScCom of the univ. Du—Prof. E. Minville, Hon LLD Ont., Hon DSc (Pol&Econ) Lovel, Hon DSc (Econ) Shaw, LScCom. 80 Profs., Assoc. Profs., Asst. Profs. and Lectrs.

SCHOOL OF OPTOMETRY, 2900 Mont-Royal Blvd., Montreal, 26 (tel.: Montreal, Regent 8-7311). Provides complete courses for LScO of the univ. Dir.—J.-A. Messier. 31 Profs., Assoc. Profs., Assts. and others.

SCHOOL OF VETERINARY SCIENCE, Saint-Hyacinthe, P.Q., about 35 mls. from Montreal (tel.: Saint-Hyacinthe 4-8343). Founded 1886. Provides complete courses for DMV of the univ. Du—J. Dufresne, BSA DMV DHPV LaFol. 35 Profs. and Assts.

THOMAS MORE INSTITUTE FOR ADULT EDUCATION, 3421 Drummond St., Montreal (tel.: Vis-5076). Provides complete courses leading to BA of the univ. Du—Father E. O'Connor

### Classical Studies

Each of the 33 colls. for boys and girls listed below is affiliated to the univ. and provides a 4-yr. high sch. course followed by a 4-yr. coll. or arts course. All colls. except Loyola and Marquette are French-speaking. The programme for the coll. course is prepared by the univ. The univ. exercises a supervision on the teaching staff and administers the yearly exams.

during the coll. course. The students who pass successfully the yearly exams prepared by the fac. of arts are awarded the BA degree by the univ. and may be admitted to grad. (or professional) studies in the univ.

There are also 58 approved instns. which are not yet affiliated, but which offer all or part of the same courses for boys and girls.

### For boys

COLLÈGE ANDRÉ-GRASSET, 1000 Grétiot Blvd. East, Montreal, 10. Superior—J. Langis, BScLat LTh Rome.

COLLÈGE BOURGAT, Rigaud, P.Q. Superior—Father E. Auger.

COLLÈGE CLASSIQUE SAINT-VIATLON, 475 Bloomfield Ave., Outremont, P.Q. Superior—Father L. J. Lefebvre, LScLat Inst Catholique (Paris), BA BTh.

COLLÈGE DE L'ASSOMPTION, l'Assomption, P.Q. Superior—Mgr. H. Langlois, BA BDrCan LTh LScLat.

COLLÈGE DE MONTRÉAL, 1931 Sherbrooke St. West, Montreal, 25. Superior—D. Robitaille, BA LTh LScLat LPéd.

COLLÈGE DE SAINT-LAURENT, Saint-Laurent, P.Q. Superior—Rev. Father M. Deschenaux, BA.

COLLÈGE JEAN-DE-BRÉBÉF, 32 Ch. Sainte-Catherine, Montreal, 26. Rector—Rev. Father R. Fortin.

COLLÈGE MONI-SAINT-LOUIS, 244 Sherbrooke St. East, Montreal, 18. Superior—Br. Mathieu-David, BA BPéd LScLat.

COLLÈGE NOÛR DAME-DU-SACRÉ-CŒUR, 3701 Queen Mary Rd., Montreal. Superior—Br. P. Lefebvre.

COLLÈGE SAINT-DAMIS, 4152 St.-Denis St., Montreal, 18. Director—G.-Y. Moineau, BA DPd.

COLLÈGE SAINT-CROIX, 3280 Sherbrooke St. West, Montreal, 36. Superior—Rev. Father M. Lafond, BA LTh.

COLLÈGE SAINTE-MARIE, 1180 Henry St., Montreal, 2. Rector—Rev. R. Lebel.

COLLÈGE SAINT-PAUL, 10555 Ave. du Bon-de-Boulogne, Montreal, 12. Du—M. Sainte-Marie.

COLLÈGE STANISLAS, 780 Dollard Blvd., Outremont, P.Q. Superior—Mgr. B. Fournier, BA.

EXTERNAT CLASSIQUE DE LONGUEUIL, 945 Charnley Rd., Ville-Jacques-Cartier, P.Q. Rector—Rev. Father F. Fortin, BA LScLat Rome, DTh Wesl., Dupléd Paris.

EXTERNAT CLASSIQUE JEAN-JACQUES OLIVE, 4300 Blvd. LaSalle, Verdun, P.Q. Superior—J. C. Côté, BA BTh.

LOYOLA COLLEGE, 7141 Sherbrooke St. W., Montreal, 28 Rector—Rev P G Malone

SÉMINAIRE DE JOUETTE, Joliette, P.Q. Superior—Father E. Jetté.

SÉMINAIRE DE PHILOSOPHIE, 3880 Côte-des-Negres, Montreal, 25 Superior—R Duhamel, BA LTh

SÉMINAIRE DE SAINTS-THOMAS, Sainte-Thérèse-de-Blainville, P.Q. Rector—Mg P Décar, MA Fodhaus, BA BTh DiplPéd

SÉMINAIRE DE SAINT-HYACINTHE, Saint-Hyacinthe, P.Q. Superior—Canon S. Lemout, BA LTh

SÉMINAIRE DE SAINT-JEAN, Saint-Jean, P.Q. Rector—Mg B Courville, BA.

SÉMINAIRE DES SAINTS-ARISTES, Côte Ste-Catherine, Laprairie, P.Q. Superior—Rev. Father J P Roy, BA LTh Greg

SÉMINAIRE DE VALLEYFIELD, Sahabery de Valleyfield, P.Q. Superior—Rev L. Beauchamp, BA LTh

SÉMINAIRE OBLAT DE MARIE-IMMACULÉE, Chambly, P.Q. Superior—Rev Father M Pelletier

SÉMINAIRE SAINT-CROIX, Saint-Laurent, Montreal, 9 Superior—Rev Father M Lalonde, BA

SÉMINAIRE SAINT-SACREMENT, Terrebonne, P.Q. Superior—Rev. Father E Bussières, BA

### For girls

COLLEGE BASILE-MORFAN, Saint-Laurent, P.Q. Directress—Sr Marie-de-Saint-Albert-le-Grand, BA L&L&P&D

COLLEGE JESUS-MARIE, Outremont, P.Q. Directress—Sr M Joseph-de-Saint-Sacrement, BA L&L&L

COLLEGE MARGUERITE-BOURDEAU, Montreal Directress—Sr Saint-Sylvius, MA

COLLEGE MARIE-ANNE, Lachine, P.Q. Directress—Sr Marie-Emma-de-S-Sacrement

COLLEGE SAINT-MAURICE, Saint-Hymenhe, P.Q. Directress—Sr Marie-De-Sion

MARIANOPOLIS COLLEGE, Montreal. Dean—Sr St Madeleine de Charity, BA Orr, MA CW

## ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)

(These are instns affiliated to the univ through a univ fac. or a univ sch. The teaching staff of the Attached Institutions are not listed by name above)

HIGHER INSTITUTE OF HOSPITAL ADMINISTRATION, 2500 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-9951) Attached to sch. of hygiene Provides complete courses for MAH of the univ. Dir.—G. Lesalle, MD DHA

HIGHER INSTITUTE OF RELIGIOUS SCIENCES, 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-9951) Attached to fac. of theol Provides complete courses for BScRel, MScRel, MA, PhD of the univ. Dir. of Studies—Rev R. Brossseau, LTh DPh.

HIGHER SCHOOL OF MUSIC OF THE INSTITUTE OF THE SISTERS OF ST ANNE, Institut Cardinal Léger, Rosemont, P.Q. (tel. Montreal, Raymond 8-1681) Provides complete courses for BMus, LMus, DMus of the univ. Directress—Sr. Marie-du-Céleste

HOME ECONOMICS. 11 schools

INSTITUTE OF DIETETICS AND NUTRITION, 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-9951). Attached to fac. of med. Provides complete courses for BSc(Nut), MSc (Nut). Directress—Rachel Beaudoin, BSc Ceru, DScHyg Harv., MSc.

INSTITUTE OF TRANSLATION, 410 Wisconsin St., Montreal, 8 (tel. Montreal, Crescent 8-5879) Provides evg. courses for a univ. dipl. Directress—Jeanne Grégoire

LABALLE CONSERVATORY (French elocution and oratory), 1200 St. Joseph's Blvd., Montreal (tel. Montreal, Lafontaine 3-2575) Provides complete courses for a univ. dipl. Directress—Suzanne P Goyette

NASARETH INSTITUTE, 1450 Chemin de la Côte-Saint-Michel, Montreal (tel. Montreal, Dupont 8-1277) Provides complete courses for BMus, LMus, DMus Directress—Sr Rita Hamel

NOTRE-DAME SCHOOL OF MUSIC, Hull, P.Q. Provides complete courses for BMus of univ Directress—Sr Marie-de-la-Victoire

PIC XI INSTITUTE (a higher school of theol.), 2065 Sherbrooke St. West, Montreal, 25 (tel. Montreal, Wellington 3-1856). Provides complete courses for a cert. Dir.—J B. Desrosiers.

SAINT-CROIX SCHOOL OF MUSIC, Saint-Laurent, P.Q. Provides complete courses for BMus of univ Directress—Sr Marie de Ste-Jeanne-du-Rosane

SCHOOL FOR TOURISTS' GUIDES (history of Montreal), 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-9951). Provides evg. courses lead to a cert. Dir.—G. Roy.

SCHOOL OF MEDICAL TECHNOLOGY, 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-9951) Attached to fac. of med. Provides complete courses for a dipl. Dir.—R. Beaulieu, MD

**SCHOOL OF MUSIC OF THE COLLEGE MARIE-DE-L'INCARNATION**, Trois Rivières, P.Q. Provides complete courses for BMus, LMus of the Univ. Directress—Motha Saint-François-de-Borgia.

**SCHOOL OF MUSIC OF THE ST ANNE SISTERS** (Institut Cardinal Léger), 6400 16th Ave., Rosemont, Montreal. Provides complete courses for BMus, LMus, DMus of the Univ. Directress—Sr Marie-Thérèse-Eugénie.

**SCHOOL OF MUSIC OF THE SISTERS OF LA PRÉSENTATION-DE-MARIE**, Saint-Hyacinthe, P.Q. Provides complete courses for BMus, LMus of Univ. Directress—Sr. Marie-Noëlle.

**SCHOOL OF MUSIC OF THE SISTERS OF THE ASSUMPTION**, Nicolet, P.Q. Provides complete courses for LMus of Univ. Directress—Sr. Cécile-de-la-Trinité.

**SCHOOL OF REHABILITATION**, 2000 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-0951). Attached to fac. of med. Depts of (a) physiotherapy and occupational therapy, (b) audiology and speech therapy. Provides complete courses leading to (a) dipl., (b) MA of Univ. Du—G. Gingras, MD.

**VINCENY D'INDY SCHOOL** (a higher school of music), 1410 Mont-Royal Blvd., Outremont, 8 (tel. Montreal, Crescent 9-1215). Provides

complete courses leading to BMus, LMus, DMus of Univ. Directress—St. Marie-Stéphane.

**INSTITUTE OF EXPERIMENTAL MEDICINE AND SURGERY**, 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-0951). Provides basic res. facilities leading to MSc, PhD of Univ. Du.—H. Selye, MD PhD FRCG, DSc MCG, FFAAS, FRSCm.

**INSTITUTE OF MICROBIOLOGY AND HYGIENE**, 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-5304). Founded 1938. No degrees awarded. Candidates for MSc or PhD (appl. res.) of the Univ. work at this inst. Du.—A. Frappier, MD.

**MONTREAL CANCER INSTITUTE**, 1560 Sherbrooke St. East, Montreal, 25 (tel. Lafontaine 5-6363). Founded 1941, affiliated to the Univ. in 1958. Provides basic & appl. res. facilities leading to MSc, PhD of Univ. Du.—L. C. Sissard, MD.

**RADIUM INSTITUTE**, 4120 Ontario St. East, Montreal, 4 (tel. Montreal, Lafontaine 3-3151). Founded 1922, affiliated to the Radium Institute in Paris 1923. Hospital attached. Appl. res.; no degrees awarded. Du.—R. Lévesque, MD.

## GENERAL INFORMATION

Originally established in Montreal in 1876 as a branch of Laval Univ., the Univ. of Montreal became autonomous in 1920, under a special act of the legislature of the province of Quebec subsequently revised in 1950. It also enjoys certain privileges under a papal charter dating from 1919 and is Roman Catholic in outlook. Through affiliated institutes (see above) as well as by itself, the Univ. caters for the educ. needs of over 25,000 students, over 8000 of whom attend courses and lectures in the bldgs. on the campus.

**CONSTITUTION.** 4 of the 12 members of the bd. of governors are apptd. by the Roman Catholic hierarchy. The remaining 8 governors are French-Canadian business personalities. The bd. is self-perpetuating. Financial affairs are under the direct supervision of an exec. ettee. composed of 5 governors, the chief exec. officers are the rector, vice-rector, sec. general and treasurer general. Pedagogical matters are determined by a commission on studies composed mainly of the deans of the different facs.

**INCOME (1960-61)** 'Total income, \$7,154,183 (private govt. grants, 49 per cent., fees, 26 per cent.; endowment and grants for res., sp. educ. and allied projects, 25 per cent.) 'Total income excludes theol. and all affiliated instns., which are autonomous and have their own separate budgets.

**FACULTIES AND DEANS**, see p. 269.

**UNIVERSITY PRECINCT.** The Univ. is owner in feehold of several acres on the western slope of

Mont-Royal. The present bldgs. were erected between 1937 and 1941, at a cost of over \$12,000,000. In 1947-48, an additional \$12,000,000 was raised through public subscriptions for various purposes. So far, a students' residence and a students' union bldg. have been completed and a pension fund for fac. and staff has been established. A/on campus is the polytech. sch. (an affiliated instn.). There still remains to be completed the Univ. hosp.

**LIBRARY.** General lit., 262,000 vols.; sch. of higher comm. studies, 140,000 vols.; sch. of engin., 103,000 vols.; Grand Séminaire de Montréal, 60,000 vols. 'Total: 565,000 vols.

**TEACHING HOSPITALS.** Hôtel-Dieu (gen.), H. Notre-Dame (gen.), H. St.-Laz. (gen.), Vétérans H. (gen.), H. de la Miséricorde (maternity), H. Ste.-Justine (children), H. du Sacré-Cœur (gen and TB), H. Général de Verdun (gen.), H. Pasteur (infectious dis.), H. Ste.-Jeanne-d'Arc (gen.), Sanatorium St.-Joseph (TB), Institut Albert Prévost (mental), H. St. Jean de Dieu (mental), Institut Bruchési (TB), H. Malo-nouveau (gen.).

**ADMISSION.** The usual admission prerequisite is a bachelor of arts degree in humanities of the Univ. of Montreal or its equivalent. However, students with st. matric. are now admitted to the facs. of sci., soc., econ. & pol. sci., schs. of comm., engin., rehabilitation, med. technol., and inst. of dietetics. Students residing outside the province of Quebec must submit full particulars of studies and marks obtained during their BA. course or

towards the securing of any other dipl. submitted. For full details see the *General Prospectus* and the *Prospectus* of each fac. and sch. concerned. Enquiries should be addressed to the sec. of the sch. or fac. in which the student intends to register. See also Appendix III.

**DEGREE OF BACHELOR OF ARTS** The *baccalauréat ès arts* (BA) is awarded by the univ. the complete course leading to it being a 4-yr. course provided in private colleges classées affiliées to the univ. (for a list, see pp. 278-9).

Students are admitted to the coll. course by passing *matriculation* exams set by the univ. (thus obtaining the matric. dipl. of the univ.). This exam takes place at the end of the sec. course, which is of 4 yrs. duration, the last yr. corresponding to the 11th yr. of schooling. For the sec. course most of the *collèges classées* have their own high sch. where students receive instruction for grades VIII, IX, X, XI and prepare for the *matriculation* exams. The BA, awarded by the univ. at the end of the 4th yr. of coll. (when the student is about 20 yrs. old), is a gen. arts degree entitling the candidate to begin professional studies in law, med., dent. or to enter upon further studies in arts, letters, philos. or sci. Exams are set by the univ. every yr. of the coll. course.

The fac. of letters offers regular courses leading to BA hon. in Engl. studies or in Slavic studies (4 yrs. after matric.). Courses for adults seeking BA gen. are provided in the univ. itself.

The univ. also awards the BPéd (4 yrs. after matric.) to certain students in public *écoles normales*.

**OTHER DEGREES** After the BA (or, in certain subjs., after sr. matric.; see 'Admission', above) the student may proceed, in the univ. itself, to the following degrees in the fields indicated. *Dent.* DDS, 4 yrs. after BA. *Hygiene* BEdPR, 4 terms after BA, BSc or BPéd; MEdS, 1 yr. after BA, BPéd, BPF or BEdPR. *Law* LLB, 3 yrs. after BA; LL.L., 3 yrs. after BA; MA in law, 1 yr. after LLB or LL.L.; LL.D., 3 yrs. after LL.L. *Letters* MA in letters, 1 yr. after BA, LL.L., 1 yr. after BA; Ph.D., 2 yrs. after MA, D.Litt., 2 yrs. after LL.L. *Med.* MD, 5 yrs. after BA, MSc in med., 1 yr. after MD or BSc, Ph.D. in med., 3 yrs. after MD or BSc. *Music* (sacred or profane) BMus, 2 yrs. after BA; LMus, 4 yrs. after BA; DMus, 2 yrs. after LMus. *Pharmacy* BPharm, 4 yrs. after BA; MPharm, 1 yr. after BPharm; DPharm, 3 yrs. after BPharm. *Philos.* BPh, 1 yr. after BA; MA in philos., 1 yr. or 3 yrs. after BA, LPh, 1 or 2 yrs. after BPh, DPh, 1 yr. after LPh; Ph.D., 1 or 2 yrs. after MA. *Physical* BSc gen., varies; BSc sp. (in biochem., biol., chem., geol., math., math.-phys., phys.), 3 yrs. after BA, or 4 yrs. after sr. matric.; MSc, 1 yr. after BSc sp.; DSc or Ph.D., 2 yrs. after MSc. *Soc. sci.*, econ. & pol. sci. BSc in econ., pol., social or anthropol., 2 yrs. after BA or 4 yrs. after sr. matric. dipl.; MA in anthropol., criminol., econ., indust. relms., pol., soc. service or social,

1 or 2 yrs. after BSc taken in this fac.; Ph.D. (in anthropol., econ., indust. relms., pol., soc. service, social), 2 yrs. after MA taken in this fac. *Theol.* BTh, 2 yrs. after BA; LTh, 2 yrs. after BTh, DTh, 1 yr. after LTh.

*Tenue planning cert.* MA (town planning), 2 yrs. after BScA, BSc, BSc (social), or LL.L. *Natural Sciences* Sch. CAPES, 1 yr. after LL.Lit., LPh or LSc, or 3 yrs. after BA. LSc (Teaching), 4 yrs. after sr. matric. (philos., sci. or letters).

#### *Degrees of the univ. for which courses are provided only in the Affiliated Institutions*

*Agric. Inst. of Qub.* BSA, 4 yrs. after BA; LSA, 4 yrs. after BA; MSA, 2 yrs. after BSA or LSA. *Inst. of Family Pedagogy* BPF, 4 yrs. after matric. dipl. *Marguerite d'Youville Inst.* BScInf, 2 yrs. after sr. matric. plus nursing. *Normal Sch. for Secondary Teaching* BPéd, 1 yr. after BA, LPéd, 2 yrs. after BA; DPéd, 2 yrs. after LPéd. *Pedagogical Inst.* BPéd, 4 yrs. after matric. dipl.; LPéd, 2 yrs. after BPéd; DPéd, 2 yrs. after LPéd. *Polytechnic Sch.* BScA, 5 yrs. after BA, MScA, 1 yr. after BScA; DScA, 3 yrs. after BScA. *St. George Pedagogical Inst. for Men* BPéd, 1 yr. after BA; LPéd, 2 yrs. after BPéd, DPéd, 2 yrs. after LPéd. *Sch. of Higher Commercial Studies* BScCom, 4 yrs. after matric.; LScCom, 3 yrs. after BA or 2 yrs. after BScCom; LScComptables, 1 yr. after LScCom, LScAct, 1 yr. after LScCom, DScCom, 2 yrs. after LScCom. *Sch. of Optometry* LScO, 3 yrs. after BA. *Sch. of Veterinary Sci.* DMV, 4 yrs. after BA.

#### *Degrees of the univ. for which courses are provided only in the Attached Institutions*

*Higher Inst. of Hosp. Admin.* MAH, 2 yrs. after BA. *Higher Inst. of Religious Sci.* dipl. theol. past., CAT, 2 terms, BScRel, 2 yrs. after BA, MScRel, 1 or 2 yrs. after BScRel, MA in relig. sci., 2 yrs. after BA, Ph.D. in relig. sci., 2 yrs. after MA in relig. sci. *Inst. of Dietetics & Nutrition* BSc(Nutr), 3 yrs. after matric.; MSc(Nutr), 1 yr. after BSc(Nutr). *Laboratory Sch.* BEdB, 1 yr. after BA. *Sch. of Rehabilitation* MA in speech therapy & audiol., 2 yrs. after BA or BSc, dipl. in rehabilitation or occupational therapy, 2 yrs.

#### HONORARY DEGREES LL.D.

**DIPLOMAS** DHP, DHDP or DHVP, DIH (Infirmière Hygiéniste), 1 yr.; orthodontics, 16 mos. after DDS; nursing, 3 yrs.; physiotherapy & occup. therapy, 3 yrs.; med. technol., 2 yrs.; hosp. pharm., 1 yr.

**FEES** (annual) Theol., \$200; Higher Inst. of Religious Sci., \$325; law, \$375; med., \$525; exper. med. & surg., \$375; dietetics, \$350; med. technol., \$375; rehabilitation, \$375; philos., \$375; mod. ev. studies, \$375; psychol., \$375; letters, \$375; sci., \$325; dent. surg., \$475; pharm., \$425; soc. sci., \$375; music,

\$360, hyg., \$500, Polytechnic Sch., \$325 (1st yr.), optometry, \$400; Vet. Sch., variable; Sch. of Higher Comm. Studies, \$240 (1st yr.); Manqueville d'Youville Inst., \$380, Normal Sch. for secondary teaching, \$350, St. George's Pedagogical Inst., variable; Pedagogical Inst., \$150, Inst. of Family Pedagogy, \$250.

ACADEMIC YEAR. Mid-Sept to May a terms of 20 wks.

USUAL LANGUAGE OF INSTRUCTION is French. Students may write exams. in French or English.

EXTENSION DEPARTMENT. Organized in 1952, offers in the eveg. and summer months several non-degree courses. Students may also register in the facs of arts and sci for full degree courses leading to BA and BSc gen. Div.—J. Houppert, MA III, D.Lett.

VACATION COURSES in French and Engl. lts

and langs, linguistics, philos., hyg., peace sci., slavic studies, translation, music.

GRADUATE ASSOCIATION. Les Diplômés de l'Univ. de Montréal, 2222 Maplewood Ave., Montréal, 26 (tel. • Montréal, Regent 3-9951). Sec.—J. Lamothe.

UNIVERSITY MILITARY FORMATION. Corps-école d'officiers canadiens (C.O.T.C.). Also univ. naval try div and R.C.A.F. reserve univ. flight.

STUDENTS' UNION. A.G.E.U.M. (Association Générale des Étudiants de l'Univ. de Montréal).

PUBLICATIONS. *Annuaire général* (May), *General Prospectus* and *fac. Prospectus*, *La Revue trimestrielle canadienne* (\$3); *L'Actualité économique* (\$3); *L'Action universitaire* (\$3); *Tribune* (\$2.50); *La Revue médicale* (\$3); *La Revue de biologie* (\$6), *Contributions à l'étude des sciences de l'homme* (\$4); *Études slaves et européennes* (\$4).

## THE YEAR 1961

PRINCIPAL BENEFACTIONS. Fondation Rhéaume, \$34,000, Gustavas & Louise Pfeiffer 1st foundation, \$61,454.

DEANS. E. Walter (assoc. prof., fac. of letters); J.-A. Murphy (asst. prof., fac. of letters), J.-A. Remy (prof., Polytech. Sch.); Rev. P. Deschamps (former prof., Normal Sch. for sec. teaching); Dr. G. Fournier (asst. prof., fac. of med.); J.-O. Asselin, G. Roussow (asst. prof., fac. of letters), Dr. T. Pariseau (former dean, fac. of med.), R. Fournier (prof., Agric. Inst. of Olm), A. Magnot (former dir. and emen. prof., Sch. of Optometry), Hon. Justice V. Pagé (former prof., fac. of law), Dr. J.-A. Millet (assoc. prof., fac. of med.).

HONORARY DOCTORS. LLD—R. M. Fowler, pres., Canadian Pulp & Paper Assoc., Hon. J. LePage, premier, P.Q.; Mgr. A.-M. Parent, vice-pres., Laval; Hon. L. Robichaud, premier, New Brunswick. Law—P. Deterre, pres., union internat. du notariat latine. Med. sci.—Dr. U. Cerletti, pres., Italian soc. of psychiatry, Dr. J. Deloy, prof., fac. of med., Paris, Dr. D. Lagache, prof., Sorbonne, co-dir., inst. of psychol., Paris. Sci.—L.-E. Marvon, sr. dir., N.R.C. (Canada); W.-A. Noyes, jr., dean, grad. sch., Univ. of Rochester; C. Sadron, dir., centre de recherches sur les macromolécules du CNRS, Strasbourg. Vet. med.—Dr. T. Lloyd Jones, principal, Ontario Vet. Coll.

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	13,397	3163
Women	7,438	2114
Total	20,635	5277

Distribution by Faculties and Schools. Agric., 118, arts, 7874, comm., 525, dent., 186, dietet., 8, education, 98, engin., 1114, family med., 185,

law, econ., 363; hyg., 153, law, 615, letters, 409, library sci., 27, med., 453; med. technol., 120, music, 194; nursing, 2618, optometry, 57, pedagogy, 2020, pharm., 304, philes., 398; rehabilitation, 97; religious sci., 89; sci., 875; soc., econ. & pol. sci., 371, theol., 509; vet. med., 114. Total, 20,635.

Included in the figures above are —

Postgraduate students, 2030

Students from other countries, 392 (Countries from which largest numbers come: France, 104; U.S.A., 40, Vietnam, 37; Haiti, 38; Italy, 23).

DIPLOMAS AWARDED (1960-61). Agric., LSA, 5, BSA, 6, Arts, BA, 1205, Comm., LScCom, 42, BScCom, 42, Dent., DDS, 34, MSc, 2, Educ., LPéd, 206; BPéd, 478, BPP, 37, Engin., DScA, 1, MScA, 3; BScA, 227, Hyg., LH, 12; BH, 9; MH, 10, Law, LLM, 3, LLL, 89; LLB, 7, Letters, L.Lett, 18; MA, 69, DLitt, 13, Library sci., BLibl, 43, Med., MD, 110; PhD, 5, MSc, 6, BSc(Nat), 25, Music, MMus, 4; LMus, 2; BMus, 26, Nursing, BScInf, 31, Optometry, LScO, 22, Pharm., MPharm, 1, BPharm, 50, Philes., DPhil, 1, LPh, 12, BPh, 47; MA, 6; PhD (psychol.), 5, DPh (psychol.), 1; BPh (psychol.), 30; LPh (mediev. studies), 1; BPh (mediev. studies), 1, MA (mediev. studies), 7, PhD (mediev. studies), 1, Sci., PhD, 6, MSc, 15; BSc, 94, Soc., econ. & pol. sci., MA(Econ), 15, MA(RelInd), 12; MA(Soc), 1, MA(SocWork), 22; BSc, 12, Theol., LTh, 43, BTh, 48, MA, 12; BSc(Rel), 24, Vet. med., DMV, 31.

DIPLOMAS AWARDED (1960-61). Education, 12; family and soc. educ., 151, hyg., 28, med. technol., 41, music, 7; nursing, 644; pub. health nursing, 52, theol., 14, translation, 41, tourism, 105.

CERTIFICATES AWARDED (1960-61). Dent. (postgrad), 7, letters, 2, music, 11.

# MOUNT ALLISON UNIVERSITY\*

Founded 1858, previously established as Mount Allison Wesleyan Academy, 1840

Postal Address: Sackville, New Brunswick, Canada

Cables and Telegrams: Mount Allison, Sackville, New Brunswick

Telephone: Sackville 536-0380, 536-0382 and 536-0560

CHANCELLOR—R. P. BELL, OBE, BA DCL

CHAIRMAN OF THE BOARD OF REGENTS—N. T. AYARD, BA LL.D.

PRESIDENT (from July 1963)—L. H. CRAIG, MA PhD Tor, FCIC

VICE-PRESIDENT AND DEAN OF FACULTY—W. S. H. CRAWFORD, MA PhD Jhu, BA

SECRETARY OF THE SENATE—J. E. A. CRAIG, BA Tor., MA Odon., PhD Jhu, H

REGISTRAR—D. A. CAMERON, DipEd Lond., BSc

LIBRARIAN—L. M. ALLISON, BA Dal., BLS Tor

## TEACHING STAFF

(†=Part-Time)

**Art, see Fine Arts**

### Biology

Stallworthy, W. B., BA PhD Tor  
Prof., Hd of Dept  
Dumelow, Elizabeth J., BA BSc.,  
BSc Lond., PhD R'dg.  
Rebeck, A., MSc Penn.  
Lectr.  
Lectr.

### Chemistry

Cuthbertson, A. C., MSc PhD McG.  
Carnegie Prof., Hd of Dept  
MacLaughlan, D. W., PhD McG., BSc Prof  
Bailey, L. R. C., PhD McM., MSc Assoc Prof  
de Souza, A., DSc Lomvane, PhD Fred  
Assist. Prof  
Lectr.  
Layton, T. M., BEd Dal., MSc  
Lectr.

### Classics

Crake, J. E. A., BA Tor., MA Oxon.  
PhD Jhu H.  
Wood Prof., Hd of Dept  
MacLenn, H. A., BA McM., MA PhD W'z  
Assist. Prof.  
Sherwood, D. A., BSc Fawcett, MA Tor  
Assist. Prof.

### Commerce

de Vos, N., BCom BA St G W'z, CA  
Assist. Prof., Acg. Hd of Dept  
Lesid, A. D., BA  
Assist. Prof.  
Meldrum, W. W., LLB Dal.  
†Lectr.  
McFarlane, Alice, BA  
Lectr.

### Economics and Political Science

Cunningham, W. B., BA Acad., MA  
PhD Brown  
Black Prof., Hd. of Dept.

Campbell, I. L., BA Can., MSc(Econ) Lond.

Groenlode, J. G., BSc(Econ) Lond.  
Wood, C. E., BA Mowt.  
Assist. Prof.  
Assist. Prof.  
Lectr.

### Education

Southam, H. D., BA B. Col., DPed Tor.  
Prof., Hd of Dept  
Bailey, A. W., MA MEd New Br.  
Assist. Prof.

### Engineering

Boorne, R. A., BASc Tor.  
Pond, G. R., BE N.S.T.C.  
Hannah, G. W., BSc BE N.S.T.C.  
Prof., Hd of Dept.  
Assist. Prof.  
Lectr.

### English Language and Literature

Duchemin, L., BA Dal., MA PhD Tor.  
J Allison Prof., Hd of Dept  
McRae, C. F., BA W'z Ont., MA McM.,  
PhD Tor.  
W. M. Tweedie Prof.  
Thomson, G. H., BA W'z Ont., MA  
PhD Tor.  
(on leave) Assoc. Prof.  
Mitcham, P., MA New Br., PhD Lond.  
Assist. Prof.  
Assist. Prof.  
Assist. Prof.  
Lectr.  
Lectr.  
Lectr.

### Fine and Applied Arts

Harris, L. P.  
Colville, A., BFA  
Palford, E. B., BFA  
Prof., Hd. of Dept  
Assoc. Prof.  
Assist. Prof.

\* Member of the Association of Universities of the British Commonwealth



Dow, Helen J., BA <i>Tor</i> , PhD <i>Bryn.Col</i>	Asst. Prof	Darrah, Doris I., BA BEd	Lech
		Sonic, J., MSc <i>McM</i>	Lech
<b>French</b>			
MacBeth, A., MA <i>Middlebury</i>		<b>Music</b>	
	Assoc. Prof.	Brown, H., BA MusB <i>Tor</i> , MA <i>McM.</i>	
		(Piano) Prof., Dir. of Conservatory	
MacKenzie, F. H. M., MA <i>Edm</i>	Lectr	Patterson, Allison, BSc BEd	
Galloway, I., MA <i>St.And</i>	Lectr	(on leave) (Piano & Organ) Teacher	
Lagarde, A. L., BA <i>St.Jos.</i>	Lectr	Daniel, Catherine J.	(Voice) Teacher
	Lectr	Kinsman, Miss Evelyn, MusB	(Piano) Teacher
		Elliott, C., MMus <i>Redlands</i>	
<b>Geology</b>			
Williamson, D. H., BSc PhD <i>Abod.</i>		(Music Theory & Piano) Instr	
	Dunn Prof., Hd. of Dept.	Seunders, S., DipMus <i>DupEd Wales</i>	
Allen, C. M., MSc <i>Adams</i>	Asst. Prof	(Orch. Instruments, Theory) Teacher	
Sims, W. A., BA <i>Amherst</i> , BSc <i>St.F. X.</i>		(Piano & Organ) Teacher	
MSc <i>McG</i>	(on leave) Asst. Prof	<b>Philosophy</b>	
Ferguson, L., PhD <i>Edm.</i>	Asst. Prof	Baxter, C., MA PhD <i>Tor</i>	
Moore, J. C. M., BA <i>Tor</i> , MSc <i>Cam.</i>		II A Massey Prof., Hd. of Dept.	
PhD <i>Harv</i>	Visiting Lectr	Stanway, R. A., MA <i>Tor</i>	Lectr
<b>German</b>			
Dunsting, K., BA	Lectr	<b>Physics</b>	
MacKenzie, F. H. M., MA <i>Edm.</i>	Lectr	Crawford, D. P., MSc <i>Dal.</i> , PhD <i>Rock.</i>	
<b>History</b>			
Lockwood, P. A., MA <i>Camh.</i>		BSc O. E. Smith Prof., Hd. of Dept.	
	Stiles Bennett Prof., Hd. of Dept.	MacGregor, D. G., BA <i>Dal.</i> , MA <i>Oxon.</i>	
Tolmie, M. M., BA <i>Dal.</i> , MA <i>Oxon.</i>		Hon. DSc	Prof
<i>Harv</i>	Asst. Prof	Noble, W. J., BSc <i>New Br.</i> , MSc <i>Dal.</i>	
Humphries, C. W., BA <i>McM.</i> , MA <i>Tor</i>	Lectr	MA <i>Tor</i> , PhD <i>Edm.</i>	Prof
Duckworth, M. W., BA <i>Yale</i> , MA <i>Tor</i>	†Lectr.	Matthews, J. H., MSc <i>Dal.</i> , PhD <i>Leid.</i>	
		BSc	Assoc. Prof
<b>Home Economics</b>			
Ruzemman, Doris, BS MA <i>Cal.</i>	Prof., Dir	<b>Psychology and Sociology</b>	
Cavanagh, Christine M., BSc <i>Adms.</i>		Tuck, J. A., MA PhD <i>Tor</i>	Prof., Hd. of Dept.
MSc <i>Cal.</i>	Assoc. Prof	Campbell, I. L., BA <i>Cal.</i> , MSc (Econ) <i>Leid.</i>	
Kennish, Marjorie, BSc <i>Tor</i> , MBA <i>Cal.</i>			Asst. Prof
	Asst. Prof.	Malpass, R. S., MA <i>Uttam</i>	Lectr
Seaman, Mrs. Louise V., BSc	Asst. Prof	Mabey, D. E., BA	†Lectr
Crawford, Marjorie	†Lectr	<b>Religion</b>	
<b>Mathematics</b>			
Crawford, W. S. H., MA PhD <i>Minn.</i> , BA		Ebbett, A. J., BD Hon <i>Dal</i> <i>Pine Hill</i> ,	
	Smith Prof., Hd. of Dept.	ThD <i>Vic.Tor</i> , BA	Prof., Hd. of Dept.
	Prof.	Hay, E. R., BA <i>Cal.</i> , MA <i>BD Qu.</i>	
Fleming, J. A., BE <i>N. S. T. C.</i>	Lectr	PhD <i>Glas</i>	Lectr
Christensen, Jeanne M., MSc <i>McM.</i> , BA	Lectr	<b>Spanish</b>	
		.....	Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Dean of Men: D. McA. MacAulay, BSW  
 BSc, BA. Dean of Women: Miss Geneva  
 Forbes, Dir. Alumni: A. MacLellan, BA. Public  
 Relations: G. R. B. Inch, BA. Treasurer &

Business Manager: J. A. Wheeler, Chapman.  
 E. R. Hay, BA *Cal.*, MA *BD Qu.*, PhD *Glas*.  
 Dir. Phys. Educ. for Men: Dis., Phys.  
 Educ. for Women: Joy Taylor, BPHE BA *Tor*.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

MARITIME SCHOOL OF SOCIAL WORK, Halifax,  
 N. S. (tel.: 3-6907). Founded in 1947, affiliated  
 with Mt. All in 1951. Mt. All confers MSW  
 after a yrs of professional trg. at this sch. following  
 the BA or BSc from Mt. All or other recog. univ.  
 DU —L. T. Hancock, MA BSW.

PINE HILL DIVINITY HALL, Halifax (tel.  
 3-6935). Founded in 1820 as a Presbyterian  
 theol. coll., is now under United Church of  
 Canada. Students who receive the BA of Mt.  
 All and include certain specified courses may  
 qualify for the BD (awarded by Pine Hill) in a

further yrs. at Pine Hill. Principal—Very Rev C M Nicholson, BA DD LLD

PRINCIPAL OF WALLIS COLLEGE, Charlottetown, P E I (tel 7319) Founded in 1860 Students

holding 3rd or 4th yr. certs. from the coll are accepted with advanced credits in the 2nd or 3rd yr. in arts or sci at Mt All. Principal—F Mackinnon, Hon LLD New Br, MA PhD

## GENERAL INFORMATION

Mt Allison Wesleyan Academy for young men was founded in 1840. Charles F Allison of Sackville, N B, gave the site and bldgs plus an annual support for 10 yrs. A parallel institution for girls, 'The Female Branch of the Male Academy', later known as Mt. Allison Ladies Coll, began work in 1854. In 1858, an instn. with the title of Mt Allison Wesleyan Coll was granted by the N B. legislature power to confer degrees and in 1913 its name was changed to Mt. Allison Univ. (The name of the univ is derived from the founder's name and the location; the univ. is situated on a hill-top overlooking the Tantramar marshes which stretch for miles around).

Instrum. in theol. subj. began in 1860 and in 1903 the McClellan Sch. of Appl. Sci. was opened. As the univ. grew the function of the Academy and the Ladies Coll gradually diminished (some of the courses taught at the Ladies Coll—music, fine & appl. arts, home econ—were absorbed into the curriculum of the univ. in 1936) and these two instns. were suspended in 1953 and 1946 respectively to provide more space for the rapidly growing univ.

Mt Allison was a pioneer in the higher educn. of women. It conferred, in 1875, the first BSc granted to a woman in the British Empire and, in 1882, the first BA awarded to a woman in any Canadian univ.

Originally founded by the Methodist Church, Mt Allison, after the church union of 1925, came under the sponsorship of the United Church of Canada. It is conducted on a non-sectarian basis.

Registration is limited to 1300 students. It is expected to maintain this enrolment for 10 yrs while concentrating on further academic excellence.

Sackville (pop. 3000) is a univ. and manufacturing town on isthmus of Chignecto, which joins New Brunswick and Nova Scotia.

CONSTITUTION. The direct govt. of the univ. is vested in a bd. of regents and a senate, and the general council of the United Church exercises a controlling influence on the affairs of the univ. through the power of appointing a majority of the regents. The general management of affairs is entrusted to the bd. of regents. The bd. consists of 44 members: 24 apptd. by the general council of the United Church of Canada and 20 repa. of the federated alumni. The senate is a composite body consisting of members of the fac. of the univ. and 12 regents appointed by the bd. It is charged with the duty of regulating the strictly educn. concerns of the univ. In its internal admin. the univ. has always been conducted on strictly non-sectarian principles.

INCOME (1961) \$1,536,377 (govt. grants, 23 per cent, tuition & general fees, 31 per cent, endowment, 5 per cent, ancillary enterprises incl. boarding depts., 41 per cent)

UNIVERSITY CAMPUS. Central part of campus is reserved for devel. of academic and admin. bldgs. S-E side is for men's residences, athletic centre, rink and playing fields. N-E side is for devel. of women's residences. Windsor Hall is currently under construm. at approx. cost of \$1,300,000 and will house 222 women.

LIBRARY 100,000 vols., incl. valuable private collections.

ADMISSION. See Appendix III. Overseas students: certs. equated in terms of jr. matric.

Special students and auditors admitted to classes.

FIRST DEGREES. 4 yrs. from jr. matric.—BA pass, hon., BA with secretarial cert., BCom pass, hon., BSc pass, hon., BSc in home econ., BA with major in music, BFA (bachelor of fine arts) 3 yrs. from jr. matric and N.B. Teachers' Coll.—BEd (bachelor of teaching) For the BA degree 20 full credit courses, incl. 1st and 2nd yr. required courses and 10 electives in the 3rd and 4th yrs., with a major in 1 field and a minor in a related field, must be completed. Hon. courses in accounting, busi., chem., econ., Engl., French, geol., hist., Latin, maths, philos., phys., psychol., Engl. & hist., Engl. & philos., Engl. & Greek, Engl. & Latin, Latin & Greek, Greek & philos.

Partial requirements for degrees may be completed by external students, but a yr. in residence is required for all degree candidates.

HIGHER DEGREES. At present graduate work is offered in depts. of chem., classics, educn., Engl., hist. and philos.

BEd, 1 yr. after BA, BCom, BSc or BE; MEd, 1 yr. after BEd, MSW (master of social work), 2 yrs. in Maritime Sch. of Soc. Work (see p. 284) after BA or BSc.

MA or MSc, awarded after 1 to a 2 yrs' grad. study beyond BA or BSc with hon., 1 yr. of resident study is required with exam. and thesis. Open to grads. of other univs.

HONORARY DEGREES. LLD, DCL, DLitt, DMus, DD, DSc.

CERTIFICATES (from jr. matric.) Engn., 3 yrs., EdDip, 3 or 4 yrs. The cert. in engn. enables students to complete a degree course in engn. at N.S.T.C., McGill, Queen's and other univs. after a further 2 yrs. Secretarial cert. can be taken only with BA (see above).

RESEARCH. School of study of role of family, small group in causality of delinquency, causes

of psychopathic personalities. Phys. shell-model calculations in nuclear phys. Biol. quantitative description of regeneration in planaria, fish blood and fish adrenals, with particular ref. to Atlantic salmon, lubricating bases, oyster larvae, feeding behaviour and histo-chem. of antedon; behaviour and food preference of European hedgehog, ecol. study of several Northumberland strait & bay of Fundy sea shores; terrestrial slugs and snails of this area—distribution and ecol.; plant ecol. incl. study of local forests, structure and hist. of sphagnum bogs of Tanthamar marshes incl. pollen analysis, sunken forest and vegetation of a local salt spring. Chem. cyclization of benzene with diols to prepare sterically hindered orthodisubstituted benzenes, rearrangement of branched condensed hydrocarbon ring systems, cyclization of benzene with alkyl halides; exchange reactions between highly hindered organic acids and Group I cations. Geol. structure and stratigraphy of Caledonian terrane in S.-E. N.B.

Research report *The Idea of Excellence at Mt. Allison*

STUDY LEAVE Majorie Young Bell fund provides for study leave for sr. members of staff

FEEs Tuition: arts, \$460, sci., \$475, comm. \$460; educn., \$460, home econ., \$475; music, \$500, fine arts, \$525; engin., \$500, postgrad. yr., \$500. Fees incl. lab. fees, registration fee, concert and lecture series, rink, gymnasium, library, health services and insurance.

ACADEMIC YEAR Mid Sept.—mid May: 3 terms of 11 wks. each

EXTENSION DEPT. A limited number of evg. courses for credit are offered and a short winter series of popular lectures is given by members of regular univ. staff. Correspondence work is offered in some 1st and 2nd yr. courses. Other sp. programmes incl. a summer inst. on a sp. topic, United Nations summer sch., summer art workshop and local centric music teachers' course. Mt. Allison univ. forum, a public discussion of affairs, is broadcast over 8 privately owned radio stations in the Atlantic provinces.

SUMMER SCHOOL The maritime summer sch., July 2–Aug. 16, is a regular session of the univ. Half courses are offered towards degrees and certs which must be completed at a subsequent session of summer sch. or through the extension dept. Registration for univ. credit is limited to 3 half courses.

PRINCIPAL BENEFACTIONS For endowment: \$266,863, for new bldgs.: \$285,494. (Total value of all benefactions received: \$1,252,357)

RETIREMENTS F. L. West (vice-pres.) (with effect from 1962).

RESIGNATIONS Rev W. T. R. Flemington (pres.) (with effect from 1962), apptd. dir. of

SCHOLARSHIPS A number of entrance and course scholrs. are available each yr. Lord Beaverbrook entrance scholrs. (\$600 p.a. for 4 yrs), 24 Heibert S. Sharp scholrs. (\$500 p.a.) and 5 Bennett scholrs. (\$500 p.a.). Other substantial scholrs. are the Inco, the Union Carbide Canada, the Portenon (an mining engin.); the O. E. Smith scholrs., the Dennis memorial and others. Lord Beaverbrook postgrad. scholrs. are available annually.

Mount Allison FEDERATED ALUMNI. The federation elects 20 of the 44 members of the bd. of regents, 5 each yr. to serve 4 yrs.

RESIDENCE Accomms. available for 530 men and 400 women. Bd. and room (furnished) \$550 p.a. Trueman House, 1r. residence, accomm. for 195 men; Bennett House, Bigelow House, Hutton House, accomm. for 314 men, Palmer Hall, 80 women, The Cottage, 20 women, Allison Hall, 300 women. Ortona Hall and Newmandy Hall, 16 apartments each, for married students and their families, rent, \$15 p.m.

NAVIGATIONAL DEFENCE TRAINING Male students who enrol in the Canadian officers' trg. corps (C.O.T.C.) take a course of trg. designed to qualify them as commissioned officers in the Canadian army. The univ. naval trg. div. (U.N.T.D.) offers a 4-yr. course at regular service rates of pay and, on successful completion of the course, admission into the Royal Canadian naval reserve as a sub-lieutenant. The Royal Canadian air force offers courses for short-service commission officers in the R.C.A.F. aircrew list and univ. summer trg. scheme as well as other trg. and employment schemes.

HOSPITAL AND HEALTH SERVICE. Includes phys. exam. with chest X-ray at registration, 2 hospital units on campus with grad. nurses in charge and a physician in attendance. A small fee included in the gen. fee contributes to the cost of this service.

STUDENTS' REPRESENTATIVE COUNCIL. Elected by student body, in charge of student activities and liaison with univ. admin. and public.

SPORTS FACILITIES include a large playing field, a gymnasium and swimming-pool, tennis courts and a large modern artificial ice rink.

PUBLICATIONS. *Calendar* (April), prospective student leaflet; *Arsipia* (students), weekly; *Mount Allison Record* (alumni), quarterly; the *Wood Lectures* (occasionally); pamphlets and leaflets; *Allusion* (students), yearbook.

TWO BOOKSHOPS on campus.

## THE YEAR 1961

educn., external and office, dept. of external affairs, G. A. Rawlyk (hist.), to Roch. for study and res.; Dr. K. H. W. Hilborn (hist.), apptd. to W. Ont.

DEATHS. Major W. McCormack (dir. of phys. educn. for men).

HONORARY DEGRS. LL.D.—A. M. MacKay,

exec, J E MacNeill, educationalist, K A Parker, educationalist DCL—J Lesage, premier of P Q; L J Robichaud, premier of N B DD—J A Fraser, clergyman DSc—D G MacGregor, prof of phys, K S Wyatt, exec and inventors

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time	External
Men	735	6	463
Women	471	7	425
Total	1206	13	888

Distribution by Faculties Arts (incl comm, educn., fine arts, music, theol.), 750, sci (incl engin. and home econ.), 459 Total: 1219

\* A student on an hon. course is given an hon. cert. in addition to his degree dipl. These certs. are not awarded independently of the degree dipl.

Included in the figures above are —

Postgraduate students, 6

New admissions, 486

Students from other countries, 80 (Countries from which largest numbers came W Indies Fed., 27, Hong Kong, 16, U S A., 16)

DEGREES AWARDED (1960-61) Arts BA, 73, BA & secretarial cert., 13, BCom, 21, BEd, 33, BFA, 4, MusBoc, 6, MA, 2, MSW, 1 Sci BSc, 41, BSc in home econ., 14 Total number of first degrees awarded, 162

DIPLOMAS AWARDED (1960-61) AssocMus, 9, JrDipEd, 4, SrDipEd, 1

CERTIFICATES AWARDED (1960-61) Engin., 37, fine arts, 7, appl arts, 1, secretarial, 13, class 'D' French, 3, Class 'B' French, 2 Home \* sociol., 1; biol., 4, chem., 2; econ., 1, Engl., 5, French, 2, hist., 2, Latin, 1, maths, 2, philos., 1, phys., 3, psychol., 1

# MOUNT SAINT VINCENT COLLEGE

Chartered 1925

Postal Address: Halifax, Nova Scotia, Canada  
Cables and Telegrams: Mount Saint Vincent College, Halifax, Nova Scotia  
Telephone: Halifax 5-5441

CHAIRMAN, BOARD OF GOVERNORS—Mother STELLA MARIA, LL.D. DP,ed  
PRESIDENT—Sr. FRANCIS D' ASSISI, MA Dal., PhD Fordham  
DEAN OF ARTS AND SCIENCES—Sr. FRANCIS CABELL, BA Dal., MA PhD Tor., LMS Pontif Inst., Tor.  
REGISTERAR—Sr. ANNA GERTRUDE, BA Dal., MA St F.X.  
LIBRARIAN—Sr. FRANCIS DOLORES, BA MLS Tor.  
BURSAR—Sr. MARIA ROSA, MCS Boston

## TEACHING STAFF

[† = Part-Time]

<b>Art History</b>		Sr. Alice Michael, BA Dal., MA PhD St John's(N.Y.)	Asst Prof
Sr. Marie Florette, BA Dal., MA Laval	Asst Prof.	Ursula, Renate, AB Hobart(N.Y.), AM Harv	Asst Prof
<b>Biology</b>		Sr. Francis Michael, BA Dal., MA PhD St John's(N.Y.)	Lectr
Sr. Mary Lun, BA St John's(N.Y.), MSc C.U.A.	Assoc Prof., Hd. of Dept	<b>French</b>	
Wainwright, Lillian, MA PhD Col.	Lectr	Sr. Rose Celestine, MA Dal., PhD Fordham	Prof., Hd. of Dept.
<b>Chemistry</b>		Sr. Marie Florette, BA Dal., MA Laval	Asst Prof
Sr. Mary Evelyn, BA Dal., MA Tor., PhD C.U.A.	Prof., Hd. of Dept	Stanford, Janice T., BA Conn., MA Yale	Asst Prof
Sr. Elizabeth Mary, BA MSc Notre Dame	Asst. Prof.	<b>History</b>	
<b>Classics</b>		Sr. Francis d' Assisi, MA Dal., PhD Fordham	Prof., Hd. of Dept
Van Ginkel, H., D.L.L. Ley, LatHumDoct Asst.	Prof., Asst. Hd. of Dept	Van Ginkel, H., D.L.L. Ley, LatHumDoct Asst.	Prof
<b>Economics</b>		Padymantas, O., MA Dal.	Lectr
Sr. Ellen Francis, BA MCS Boston, BSc	Assoc Prof	Sr. Therese Cannel, BA Tor., MA Dal.	Instr
Sr. Mary Fabian, BA Dal., MA	Gonzaga Asst. Prof.	<b>Home Economics</b>	
O'Connell, J., MA PhD Ott.	Asst. Prof.	Sr. Elizabeth Clare, MSc Simmons, BSc	Prof., Hd. of Dept.
<b>Education</b>		Sr. Joseph Maria, MSc Conn.	Instr.
Sr. Mary James, MA PhD Fordham	Prof., Hd. of Dept.	Binnac, Ruth, MSc Syv.	Lectr
Sr. Maria Catherine, MA Fordham	Assoc. Prof	Hickman, Eileen, BSc McG.	Lectr
Sr. Anita Margaret, BA MEd Boston Coll.	Asst. Prof.	<b>Humanities</b>	
Sr. Mary Albertus, MA PhD Fordham	Asst. Prof.	Ursula, Renate, AB Hobart(N.Y.), AM Harv.	Asst Prof
Sr. Maria Caritas, BA St John's(N.Y.)	Instr.	<b>Mathematics</b>	
<b>English</b>		Sr. Anna Gertrude, BA Dal., MA St.F.X.	Assoc. Prof., Hd. of Dept
Sr. Marie Agnes, MA Dal., PhD Fordham	Prof., Hd. of Dept	<b>Music</b>	
		Sr. Cecilia Margaret, BMus Tor.	Instr

Underwood, C  
Mills, Rev J. E., BA BMus *Montr*  
Anchison, Orsola

Lectr  
Lectr  
Lectr

#### Medical Secretarial Studies

Miller, J. E. H., MD CM *Dal.*  
(Clin. Procedures) †Lectr.  
Boudreau, J. F., MD CM *Dal.*  
(Med. Terminol.) †Lectr

#### Nursing Education

Sr Margaret Edward, BA *Ott*  
Grady, Lillian, MSc NEd *St Louis*

Dir  
Instr

#### Philosophy

Sr Frances Carmel, BA *Dal.*, MA PhD *Tor.*  
LMS *Paup* Inst. *Tor.* Prof., Hd of Dept  
McKennon, L., MA *Tor.* Asst. Prof  
Sr Marion Rite, MA *St John's (N.Y.)*

Asst. Prof

#### Secretarial Studies

Assoc. Prof., Hd of Dept  
Sr Ann Fanton, BSc  
Sr Margaret Mary, BSc MA *St Rose*

Instr  
Instr

#### Sociology

Sr Mary Fabian, BA *Dal.*, MA *Gonzaga*  
Sr Louise Adelaide, BA  
Asst. Prof  
Instr

#### Physical Education

Gunter Buchta  
Instr.

## ASSOCIATED INSTITUTION

HALIFAX SCHOOL OF JOURNALISM, Mt. St. Vincent Coll., Halifax, N.S. (tel. 455-5441) The sch. is a joint undertaking of Mt. St. Vincent Coll., the Univ. of King's Coll., St. Mary's Univ., the Halifax *Chronicle-Herald* and radio station CJCH

The sch., which has its own bd. of governors with a rep. from each instn., grants a dipl. in journalism 3 yrs after jr matric. Dean—R. J. McCleave, BA LLB

## GENERAL INFORMATION

Mount St. Vincent Coll. is conducted by the Sisters of Charity and is the only women's coll. in Canada empowered to confer degrees. The foundation and devel. of the coll. is closely bound up with Mount St. Vincent Academy, an instn. established in 1873. To meet the demand for higher educn. for women, coll. courses were introduced into the outercampus in 1914 by an arrangement with Dalhousie Univ. The charter was granted in 1925 by the legislature of the province of N.S.

A new bldg. houses residence accomm., admin. offices, lecture rooms and labs., as well as separate wings for chapel, library, home econ. dept., gymnasium-auditorium and music dept. Exceptionally fine collection of mineral specimens.

**CONSTITUTION** The bd. of governors, the governing body of the coll., is composed of the Mother General of the Community of the Sisters of Charity and her assist., plus the pres. of the coll. The chief exec. officer is the coll. pres., who is assisted in her admin. duties by the dean and the registrar.

**INCOME (1961)** Total operating income, \$405,178 (Principal sources: govt. grants, 27 per cent.; academic fees, 40 per cent.; endowments (incl. benefactions of Sisters of Charity), 28 per cent.; misc., 5 per cent.)

**FACULTIES** Arts, educn.; home econ.; music, nursing; radiol. technol.; sci.; secretarial studies. For dean of arts & sci., see p. 288

**LIBRARY** 53,000 vols. Reading room. Rare

L

books room houses the MacDonald collection (1st edns, rare bindings, 10,000 vols.) Separate profess. libr. & reading room for educn. dept.

**TEACHING HOSPITAL** Halifax Infirmary sch. of nursing provides trg. sch. for students in degree nursing course, as well as internship for degree students in radiol. technol. and recognized dietitians in Canadian dietetics assocn.

**ADMISSION** See Appendix III.

**FIRST DEGREE** 4 yrs after jr matric—BA, BMus, BSc, BScNursing, BSERT (radiological technol.), BSc in home econ., BScSS (secretarial studies), BScHED (in elem. educn.) For BA, majors may be taken in classics, Engl., hist., mod. langs., philos., soc. sci., for BSc, in biol. or chem. Hon. may be awarded for merit shown during course.

Late afternoon and Saturday credit courses leading to the various degrees are offered by the coll.; also 6-wk summer sch. in July-Aug. A full yr. of residence is required for the award of any degree.

**HIGHER DEGREE** 1 yr. after BA—BED and high sch. teacher's licence granted by provincial dept. of educn.; 2 yrs after corresponding bachelor's degrees—MA in arts or in educn.

**DIPLOMAS** Educn.: jr. dipl. 2 yrs (plus 1 yr. in teacher trg.), sr. dipl. 3 yrs. (plus 1 yr. in teacher trg.), secretarial sci. or mod. secretarial

sci., 2 yrs with profess. trg. after jr. or sr. matric ; journalism (see 'Halifax Sch. of Journalism', above)

SCIENCE IN MUSEUM (LMus)—2 yrs (first 2 yrs of BMus course).

Fees. Inclusive fee for bd., residence and tuition, \$900 p.a. Tuition only, \$60 per course. Grad studies, \$70 per course.

EXTRA-MURAL WORK. A limited amount of

extra-mural work is done, under the direct supervision of the profs. of the various subjs.

SUMMER SCHOOL. See under 'First Degrees', above.

There are no 'OPEN' POSTGRADUATE AWARDS offered by, or tenable solely at, the coll.

RESIDENCE. Accommod. for approx. 175.

PUBLICATIONS. *Announcements* (annual calendar), *Kappa Krowde* (students' year book),

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Women only	439	86

Distribution by Faculties: Arts, 189, *educn.*, 100, *home econ.*, 30, *music*, 4; *nursing sci.*, 33; *secretarial sci.*, 53; *sci.*, 27; *X-ray technol.*, 4. Total: 439

Included in the figures above are:—

Postgraduate students, 15

New admissions, 157

Students from other countries, 39 (Countries from which largest numbers came: U.S.A., 17; China, 7; W. Indies Fed., 7).

DEGREES AWARDED (1960-61): Arts: BA, 30. *Educn.*: BEd, 10. *Elem. educn.*: BSEdEd, 20. *Home econ.*: BSc, 10. *Nursing sci.*: BScNursing, 6. *Secretarial sci.*: BScSS, 11. *Sci.*: BSc, 5.

DIPLOMAS AWARDED (1960-61): DipEd, 1; journalism, 1; secretarial sci., 4; mod. secretarial sci., 4.

# UNIVERSITY OF NEW BRUNSWICK\*

Established 1785; incorporated by Royal Charter 1828

Postal Address: Fredericton, New Brunswick, Canada

Cables and Telegrams: UNB Fredericton

Telephone: Fredericton GR 5-9471

VICEROY ON BEHALF OF H. M. THE QUEEN—The Hon. J. L. O'BRIEN, Hon. LLD, Lieutenant-Governor of New Brunswick

CHANCELLOR—The Rt. Hon. LORD BEAVERBROOK, Hon. DCL Mt All, Hon. LLD Law & New Br., Hon. DCL Bishop's

PRESIDENT—C. B. MACKAY, LLB Bt Col., Hon. DCL Mt All, LLD Law & New Br., BA

VICE-PRESIDENT (ACADEMIC)—F. J. TOOLE, BSc(ChemEng) MSc PhD McG.

VICE-PRESIDENT (ADMINISTRATION)—B. F. MACAULAY, BSc

REGISTRAR—EDITH G. McLEOD, BA

COMPTROLLER—C. L. MASHAN

LIBRARIAN—GRITRUD GUNN, PhD Lond, MLS Simmons, MA

DEANS—ARTS—A. G. BAILEY, MA PhD Tor, BA, FRSCan (Hist.); ENGINEERING—J. O. DINIEN, MSc (Electr Engin.), ROYALTY—J. W. KER, DFor MF Yale, BSc Br Col., GRADUATE STUDIES—W. C. D. PACEY, PhD Camb, BA Tor, FRSCan (Engl.), LAW—W. F. RYAN, LL.M. Col, BA BCL; SCIENCE—C. W. AULIC, CBE, BA BSA Br Col, MSc Iowa State Agric, Hon. DSc (Biol)

## TEACHING STAFF

### Biology

Argue, C. W., CBE, BA BSA Br Col, MSc Iowa State Agric, Hon DSc  
Fitchard, H. V., BA Tor, MA W Ont

Taylor, A. R., BA PhD Tor  
Anderson, J. M., BSc PhD Tor  
Roberts, Patricia R., MSc N.Z., PhD Duke

2 Hon. Lectrs., 2 Res. Fellows

Valente, Z., Dupling Chem & T.H. Zisch, MSc PhD  
Brewer, D. G., PhD BA Tor  
1 Instr., 1 Lectr., 9 Demos.

### Classics

Cutley, R. E. D., MA Camb  
Milham, Mary E., BA Carroll Coll. (WVa.), MA PhD Wis  
Smith, L. C., MA Durh., PhD Lev.  
1 Lectr.

### Business Administration

Maher, E. D., BA Tor, MBA Penn  
Reddin, W. J., MBA Harv., BA  
Duclos, G. G., BCom MBA Br Col.  
1 Lectr.

### Economics and Politics

Smith, W. Y., MA Oxon, BA  
Whalen, H. J., MA Alta, BA  
Levine, A. L., BA Alta, MA Tor,  
PhD Lond.  
Bouritch, S. D., BA Belgrade, MA McG  
Farie, J. F., MA W Ont.  
McKinnell, R. T., MA Natal,  
MSc Camb.  
3 Hon. Lectrs.

### Chemistry

Toole, F. J., BSc(ChemEng) MSc PhD McG

Wesner, K., DSc Prague, FRSCan  
Semeluk, G. P., MSc Alta, PhD Illinois  
Tech. Inst. & Camb.  
Stuart, A. F., PhD McG, BA

### Education

Love, R. J., BEd Tor, MA  
Blair, D. C., MA EdB St And.  
Biden, C. W., MA Col, BA

\* Member of the Association of Universities of the British Commonwealth



**Engineering, Civil**

Bentley, I. M., MSc <i>Stan</i> , BSc	Prof.
MacFarlane, H. W., BSc	Assoc. Prof.
McLaughlin, R. H. B., BSc & M. I. T., MSc	Assoc. Prof.
Stevens, A. M., MSc	Assoc. Prof.
Ballance, R. C., DIC, BSc	Asst. Prof.
Davis, K. S., BE <i>Bow</i> , MIE PhD <i>Calverton</i>	Asst. Prof.
Gairland, E. C., MSc	Asst. Prof.
Grant, E. J., DIC, BSc	Asst. Prof.
Konecny, G., MS <i>Ohio</i> , Dipl. Eng.	Asst. Prof.
Wilson, P., BSc <i>Natal</i> , MSc <i>Ohio</i>	Asst. Prof.
2 Lectrs.	

**Engineering, Electrical**

Duncan, J. O., MSc	Prof.
Collins, R. J., BSc <i>Alta</i> , MSc	Assoc. Prof.
Smolansky, W. J., BSc <i>Tor</i>	Assoc. Prof.
Ting, P. C. C., BSc <i>Cheng</i>	Assoc. Prof.
Burridge, R. E., BSc	Asst. Prof.
George, D. A., BEng <i>McG</i> , MS <i>Stan</i> , ScD <i>M I T</i>	Asst. Prof.
Rogers, J. D., BSc	Asst. Prof.
Scott, R. N., BSc	Asst. Prof.
Wason, W. D., SM <i>M I T</i> , BSc	Asst. Prof.
1 Lectr.	

**Engineering, Mechanical**

Wheatley, E. R., BSc <i>McG</i> , MSc	Prof.
Coleman, F. R., BSc <i>N S.T.C.</i>	Assoc. Prof.
Hagerman, E. W., BSc	Assoc. Prof.
Irwin, V. M., BSc <i>Que.</i>	Asst. Prof.
Spinney, F. B., BSc	Asst. Prof.
Machin, K. E., BSc <i>Lond</i> , MSc <i>Cape T</i>	Asst. Prof.
Torinson, L. E., BE MSc <i>Sask.</i>	Asst. Prof.
1 Instr.	

**English**

Pacey, W. C. D., PhD <i>Camb.</i> , BA <i>Tw.</i> , FRSCan	Prof.
Galloway, D. R., MC, MA <i>Camb.</i>	Prof.
Cogswell, F., PhD <i>Edin.</i> , MA	Assoc. Prof.
Johnstone, J. K., MA <i>Alta</i> , PhD <i>Leeds</i> , FRSL	Assoc. Prof.
Kinloch, A. M., MA PhD <i>St And</i>	Assoc. Prof.
Donaldson, A. R., MA <i>Lond.</i> & <i>New Br.</i>	Assoc. Prof.
BA	Asst. Prof.
Lane, L., AM PhD <i>Harc.</i>	Asst. Prof.
Lonnem, T., BA <i>Leab.</i> , MA	Asst. Prof.
(on leave)	Asst. Prof.
3 Lectrs., 3 Teaching Fellows	

**Fine Arts**

Cooke, E. F., BA <i>Tor.</i> , MFA <i>Jona</i>	Asst. Prof.
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**Forestry**

Ker, J. W., DFor MF <i>Yale</i> , BSc <i>Br. Col.</i>	Prof.
Long, H. D. L., MSc <i>MG</i> , BSc	Asst. Prof.
(Silviculture)	Prof.

Scheult, L. R., MScF *Tor.*

(Logging, F. Utilization) Prof.

Brown, N. R., MA *W. Ont.*

(F. Entomol.) Prof.

Halborn, W. H., BScF *Tor* Assoc. Prof. |Kussek, N. L., BScF *Tor*, MF *Yale* Assoc. Prof. |Van Slyke, A. L., MF *Mich*, BSc Assoc. Prof. |Sebastian, Leslie, Dipl. Eng. *Sapras* Asst. Prof. |4 Hon. Lectrs.  |**Geology**

McAllister, A. L., PhD <i>McG</i> , BSc	Assoc. Prof.
Hale, W. E., PhD <i>Que.</i> , MSc	Assoc. Prof.
(Sir James Dunn Chair)	Assoc. Prof.
Giesmer, H. R., MSc <i>Alta</i> , PhD <i>Yale</i>	Asst. Prof.
Lamung, D. J. C., DIC, ARCS, BSc	Asst. Prof.
PhD <i>Lond.</i>	Asst. Prof.
4 Hon. Lectrs.	

**German**

Hubener, Jean I., DrPhil <i>Bonn</i>	Prof.
Jacobi, G., Doltrand <i>Munich</i>	Asst. Prof.
Leahy, H. E. G., BA <i>Boston</i> , MA	Asst. Prof.
PhD <i>Yale</i>	Asst. Prof.

**History and Anthropology**

Buley, A. G., MA PhD <i>Tor.</i> , BA, FRSCan	Prof.
MacNutt, W. S., BA <i>Dal.</i> , MA <i>Lond.</i> , FRHistS	(Hist.) Prof.
Chapman, J. K., PhD <i>Lond.</i> , MA	(Hist.) Assoc. Prof.
Young, D. M., PhD <i>Lond.</i> , BA	Assoc. Prof.
Clark, L. C., BA <i>Maur.</i> , MA <i>Que.</i>	(Hist.) Assoc. Prof.
East, D. W. L., BA <i>Que.</i> , MLitt <i>Camb.</i>	Asst. Prof.

**Law**

Rynn, W. F., LL.M. <i>Col.</i> , BA BCL	Prof.
Scott, J. W., BA BCL <i>Oxav.</i> , BA LLD	Prof.
McAllister, G. A., LL.M. <i>Col.</i> , MA BCL	Prof.
LaForest, G. V., MA <i>Oxav.</i> , BCL	Assoc. Prof.
Sundair, A. M., LL.B. <i>Dal.</i> , LL.M. <i>S. Methodist &amp; Mich</i>	Assoc. Prof.
Hurley, D. M., BA <i>St. Thomas</i> , LL.M. <i>Lond.</i> , BCL	Asst. Prof.

**Mathematics**

Rosenberg, R. L., DIC, PhD <i>Beri.</i> , MA <i>Cape T.</i>	Prof.
Edwards, L. P., MA <i>Acad.</i>	Prof.
Weisser, L., BS <i>N Y.</i> , AM PhD <i>Col.</i>	Prof.
Stall, R. A., MA PhD <i>Tor.</i>	Assoc. Prof.
Knight, W. R., MA <i>Br. Col.</i> , PhD <i>Tor.</i>	Asst. Prof.
Schurmer, Helga H., DrReeNat <i>Fran.</i>	Asst. Prof.
Sullivan, D., BSc PhD <i>Water</i>	Asst. Prof.
Fairbairn, H., MA	Asst. Prof.
Howe, T. D., MSc <i>Tor.</i>	Asst. Prof.
1 Lectr., 3 Teaching Assnts.	



and plays throughout yr. There is a resident artist (see 'Admin. and Other Staff', above).

**Admission.** See Appendix III.

**FIRST DEGREES.** 4 yrs. (from jr. matric.)—BA gen., hon.; BSc gen., hon.; BPE (phys. educn.); BBA (bus. admin.) (2 yrs. for approved grads.). 3 yrs. (from jr. matric.)—BT, for those who intend to enter elem. teaching (open to students who have obtained 1st class licence after completing satisfactorily 1 yr. in approved teacher trng. inst.); industrial (3 yrs. open to students who have graduated from N.B. Tech. Inst., indust. teacher trng. div., with 1st class licence) 4 yrs. (from jr. matric.)—BSc in nursing. 5 yrs. (from jr. matric.)—BSc in chem., civil, electr., mech., surv. engin.; BSc in forestry.

BA hon. may be taken singly in biol., singly, or in combination with hon. in another subj., in chem., econ., Engl., French, German, hist., maths, pol. sci., philos., psychol., or, only in combination with hon. in another subj., in anthropol. & sociol., educn., Latin, Greek, geol., phys. BSc hon. may be taken in biol., chem., geol., maths, or phys.

**OTHER COURSES.** Students who complete a 3-yr. course in mining engin. at the univ. may be admitted to 4th yr. of a degree course in mining at other univs.

**HIGHER DEGREES.** BCL, 3 yrs. from BA or BSc. BED, 1 yr. from BA or BSc. MEd, MA (in classics, econ., Engl., French, German, hist., pol. sci., psychol.), MSc (in biol., chem., geol., maths, phys.), MSc in for., 2 yrs. from corresponding bachelor's degree. MSc in civil or electr. engin., not less than 1 yr. from corresponding bachelor's degree. PhD, at least 3 yrs. from bachelor's degree. All degrees open to grads. of recognized univs.

**HONORARY DEGREES.** DCL, DLit, DSc, LL.D.

The univ. does not award EXTERNAL DEGREES.

**RESEARCH.** Facilities for postdoctoral res. in biol. and chem.

**FEES.** Tuition, annual: arts, bus. admin., \$435; educn., teaching, \$370; engin., \$510-\$515; forestry, \$485; law, \$400; sci., \$460; phys. educn., \$410; nursing, \$360. Higher degrees: 1st three resident yrs for PhD and 1st two resident yrs for MA, \$300 each yr.; \$50 each addnl. resident yr. beyond 3rd and 4th yrs respectively.

**ACADEMIC YEAR.** Two terms: Sept. 13 to Dec. 20; Jan. 7 to May 2. Summer session: July-Aug.

**EXTENSION COURSE.** BA, BT and BED degree courses given in Fredericton, St. John, and 7 other centres in the province.

**SUMMER SESSION.** Instrcn. provided in all subs. for BA, BT and BPE for teachers and others and certain postgrad. courses towards BEd, MA, MSc, MEd; also profess. courses for teachers.

**SUMMER SCHOOL CALENDAR** (March), available on request.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS** for Canadian students from outside N.B. who enter the univ. to read for a 1st degree: Harold Crabtree memorial scholop. (3), \$2000 over 3 yrs., preferably for study of forestry; Sir James Dunn Foundation scholop. (7), \$1500 for 1 yr. on entrance to univ. fac. of law (renewable); engin. special scholop. (5), \$1500 over 4 or 5 yrs.; Sir George E. Foster scholop. (multiple), \$1000 to \$1000 per yr. (renewable); General Motors scholop. (4), \$800 to \$2000 over 4 yrs. (value related to needs of individual); Inco scholop. (1), up to \$2000 over 4 yrs. for study of engin., geol., geophysics, metall., mining, or maths & phys.; Industrial Acceptance Corp. scholop. (1), \$1000 over 2 yrs. (for study of bus. admin.); Steel Co. of Canada scholop. (1), \$2000 over 4 yrs.; I.O.D.E. bursaries (12), \$1600 over 4 yrs.; Union Carbide Canada Ltd. scholop. (4), \$2500 over 4 yrs.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS** tenable at the univ. Beaverbrook U.K. scholop. (5), 4 of \$1500 p.a. in forestry & 1 of up to \$2500 p.a. in chem., for grads. from U.K.; Sir James Dunn scholop. (3), \$1000 for 1 yr., open to grads. of Canadian univs. for postgrad. study & res. in geol.; DuPont of Canada scholop. (1), \$1500 single, \$2100 married, for trng. as secondary sch. sci. or maths. teacher; Imperial Oil res. fellowships (5), \$4800 over 3 yrs., open to grads. of Canadian univs. for res. leading to PhD in bus. admin., chem., econ., engin., Engl., geol., hist., mod. langs., philos., phys., psychol., sociol.; Shell Oil Fellowship (1), up to \$1800 for 1 yr., open to grads. of Canadian univs. in sci. or engin.

**PLACEMENT BUREAU** assists grads. and undergrads. to obtain pt.-time, vacation and permanent employment.

**GRADUATES ASSOCIATIONS.** Associated Alumni of the univ.

**STUDENT RESIDENCES** (for deans, see 'Admin. and Other Staff', p. 293). Men—7 residences and a dining-hall provide on-campus accomm. for 680 students (fees \$625-\$650 p.a.); Lady Beaverbrook's bldg. (80), Aitken House (100), Jones House (100), Neville House (100), Neill House (100), Harrison House (100), 1 addnl. unit (100). Addnl. facilities now in planning stage will provide grouping of 8 bldgs. with accomm. for 884 men. Women—new on-campus residence and dining-hall (initial accomm., 222; ultimate, 400), Maggie Jean Chestnut House (70), Murray House (24); fees, \$575-\$600 p.a.

**MILITARY TRAINING.** Canadian officers trng. corps; univ. naval trng. corps; univ. naval trng. div.; royal Canadian air force div.

**STUDENT HEALTH.** Tuberculosis survey of students each autumn.

**STUDENTS REPRESENTATIVE COUNCIL** has complete jurisdiction over all student affairs. Mem-

GRAD STUDENT CENTRE houses offices of S R C., Alumni Assn., student clubs and organizations and contains common-rooms and cafeteria.

ATHLETIC FACILITIES Gymnasium, swimming-pool, ice-rink, 2 athletic fields.

PUBLICATIONS. *Calendar* (April), *Sevens*

*School Calendar* (March), *Memorial* vol. in commemoration of 150th anniversary. Students: *Brunswick* (weekly), *Piddlehead* (poetry), *Interwits* (short stories & poetry); *Up the Hill* (student yearbook)

UNIVERSITY BOOKSTORE

## THE YEAR 1961

PRINCIPAL BENEFACCTIONS Bldg fund, private and corporate donations, \$401,800.

MAJOR BUILDING DEVELOPMENTS *Bldgs approaching completion*, two men's residences, women's residence and dining-hall, bank-bookstore

RETIREMENTS J M Gibson (dean of fcr)

RESIGNATIONS V G. Doerksen (German), S. M. Engel (philos.), apptd to Tor, H. E. Fischer (German), R. M. Hagmeier (biol.), apptd to Victoria, K. B. Sayeed (econ.), apptd. to Q'u; J. N. Whiteley (maths.), apptd to Dal, R. B. Banerji (elect. engin.)

HONORARY DEGREES. LL.D.—Louise E. Manny, librarian, Old Manse libr., Newcastle, N.B.; C. J. Jones, justice of supreme court of N.B.; M. Cohen, prof. of law, McG; V. K. Krishna Menon, minister of defence, rep to United Nations for India, Sir John Rothenstein, dir., Tate Gallery, London; J. D. Johnson, industrialist and govt. of McG; DCL—A. J. P. Taylor, fellow and tutor in hist., Magdalen Coll., Oxford; W. H. Howard, attorney at law, Montreal. DSc—K. C. Fisher, prof. of zool., Tor; W. J. Archibald, prof. of theoret. phys., Dal

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1819	951
Women	351	900
Total	2170	1851

Distribution by Faculties, etc. Arts, 2376, bus. admin., 163; educ., 28; engin., 709, for., 253; law, 42, nursing, 68, phys. educ., 159; sci., 227, teaching, 6. Total: 4021

Included in the figures above are:—

Postgraduate students, 139

New admissions, 736

Students from other countries, 154. (Countries from which largest numbers came: U.S.A., 44, China, 27, W. Indies Fed., 25; U.K., 11).

DEGREES AWARDED (1960-61) BA, 42; BA hon., 11; BPE, 20; BT, 1; MA, 2; BCL, 1, BSc, 22; BSc hon., 10; BBA, 18; BScinCE, 53; BScinEE, 28; MScinEE, 1, BScinMechE, 18, MScinMechE, 1, BScinFor, 20, MScinFor, 3, BEd, 15; BEd hon., 1; MEd, 1, PhD, 2. Total number of first degrees awarded, 243.

# NOVA SCOTIA AGRICULTURAL COLLEGE

Founded 1905

Postal Address: Truro, Nova Scotia, Canada

Cables and Telegrams: Nova Scotia Agricultural College, Truro, Nova Scotia

Telephone: Truro 467

PRINCIPAL—K. COX, BSA *Tor*, MSA *McG*

VICL-PRINCIPAL—J. E. SHUH, BSA *Tor*, MSc *McG*.

REGISTERAR AND DEAN OF RESIDENCE—P. COX, BA *Acad*, MA *Tor*

LABORANT—I. M. FRASER, BSc *Dal*

BUSINESS MANAGER—R. F. MACLEWAN

SECRETARY—IRABEL DAVIDSON

## TEACHING STAFF

(Staff members do not have academic titles, such as Prof. or Lectr.)

### Agricultural Engineering

Milligan, D. C., BSc(Agr) *McG*.

Henry, C. E., BSc(Agr) *McG*.

Townsend, G. E., BSc(Agr) *McG*.

### Agronomy

Cox, K., BSA *Tor*, MSA *McG*.

Shuh, J. E., BSA *Tor*, MSc *McG*.

Slater, D. T., BSc(Agr) MSc *McG*.

Mahoney, J. F., BSc(Agr) *McG*, MSA *Tor*.

### Animal Husbandry

Curtis, S. L., BSA *Tor*, MSc *Mass*, PhD *Mass*.

Cock, L. M., BSc(Agr) *McG*, MSc *Wis*.

Cox, D. S., BSc(Agr) *McG*.

Huggard, R. J., BSc(Agr) *McG*.

Maynard, E. G., BSA *Tor*.

### Apiculture

Karmo, E. A., BSc(Agr) *Tartu*

### Botany and Bacteriology

Roland, A. E., BA *Acad*, MA *Tor*, PhD *Wis*.

Palfrey, G. D., BSc(Agr) *McG*.

### Chemistry

Smith, G. R., MSc *Dal*, PhD *McG*.

Milligan, J. E., BSc(Agr) *McG*.

Langille, W. M., BSc *Acad*, MSc *McG*.

Hatchey, J. D., BSc(Agr) MSc *McG*

### Co-operation, Rural Sociology

Scammell, F. E., BSc(Agr) *McG*.

### Dairying

Murray, T. A., BSA *Mass*

### Economics, Farm Management

Giant, W. V., BSc(Agr) *McG*, MSc *Conn*

Byers, D. M., BSc(Agr) *McG*.

### English

Cox, P., BA *Acad*, MA *Tor*.

### Entomology

Neary, M. E., BSc(Agr) *McG*.

Horsburgh, R. L., BSc(Agr) *McG*

### Horticulture

Jankov, N. V.

Kinaman, G. B., BSc(Agr) *McG*.

MSc *New Hampshire*

McLaughlin, H. A. L., BSc(Agr) *McG*.

MSc *Conn*.

### Mathematics and Physics

Finner, I. M., BSc *Dal*

### Poultry

MacDonald, D. R., BSc(Agr) *McG*.

### Veterinary Science

Hancock, E. E. L., DVM *Tor*.

Mann, A. R., DVM *Tor*.

## GENERAL INFORMATION

Founded in 1905 Successor to Sch. of Agric. and Sch. of Hortie.

The coll. is fully supported financially by the province of Nova Scotia. The majority of the teaching staff are also members of the staff of the dept. of agriculture and marketing of the province in which the control of the coll. is vested.

LIBRARY 2500 vols

LABORATORIES Agric. engin., agron., animal and poultry husb., biol., chem., hort., phys.

FACILITIES Main bldg., sci. bldg., hortie bldg. (with greenhouses), dairy bldg., agric. engin. bldg., dormitory and 300-acre farm.

ADMISSION See Appendix III.

DEGREE COURSE. Students who enrol for the degree course complete (after jr. matric.) the first 2 yrs. of the 4-yr. course at the coll. and receive a dipl. Their 3rd and 4th yr. studies are completed at the instn. of their choice, e.g. MacDonald Coll. or the Ontario Agric. Coll. Students who have

completed the 2-yr. course are admitted to the 2nd yr. at Ontario Vet. Coll.

The coll. does not itself award any degrees.

DIPLOMA COURSE. 2-yr. farm course, vocational in nature and not requiring matric. Instruction in elementary sci., practical subj. and citizenship.

FEES. Tuition—Canadians free, non-Canadians, \$50 p.a. Other fees—\$39 to \$44 p.a.

ACADEMIC YEAR. Degree course mid-Sept. to late April or early May. Farm course mid-Oct. to late April or early May.

STUDENT RESIDENCE. Tyndeman House, N.S.A.C., Truro, N.S. (tel. 893-9966), fees, \$400 p.a., 123 beds, men only.

STUDENTS' COUNCIL, of which all students are members, has its affairs administered by an elected executive, fac. members serve as advisors. Controls all student business.

PUBLICATIONS. By the coll., *Calendar* (annual). By the students' council, *Agricola* (year book).

## THE YEAR 1961

RESIGNATIONS M. C. MacNevin (agric. engin.), J. R. Becker (chem.), V. R. Vickery (entomol.), G. R. Maybee (forestry).

## Statistics

STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	138	—
Women	5	—
Total	143	—

All students are in fac. of agric.

Included in the figures above are:—

Postgraduate students, nil

New admissions, 80.

Students from other countries, 2 (from W. Indies Fed.)

DIPLOMAS AWARDED (1960-61). DipAgric, 55.

# NOVA SCOTIA TECHNICAL COLLEGE\*

Founded 1909

Postal Address : Halifax, Nova Scotia, Canada  
Cables and Telegrams : N.S. Tech., Halifax, Nova Scotia  
Telephone : Halifax 422-9631

CHAIRMAN OF THE BOARD OF GOVERNORS—R. L. STAMFIELD, Minister of Education, Province of Nova Scotia

PRESIDENT—G. W. HOLBROOK, BSc PhD Lond, MSc Qm., MEIC

REGISTRAR—J. B. TERNAN, BE, MEIC

BUSBAR—C. R. LLOYD

LIBRARIAN—BARBARA A. MURRAY, BA Dal., BS Col.

## TEACHING STAFF

[† = Part-Time]

### Chemical Engineering

Foran, M. R., MSc Sask, PhD McG., MEIC  
Prof., Hd. of Dept.  
Knop, O., DSc Lond  
Assoc. Prof.  
Hartley, I. J., BSc Lond. (on leave) Asst. Prof.  
Steeves, A. E., BSc Mt. All.  
MSc McG., MEIC  
Asst. Prof.  
† Lectr.

### Civil Engineering

Meyerhof, G. G., PhD DSc Lond, MEIC  
Prof., Hd. of Dept.  
Mazur, S. J., DiplIng Leam, DIC,  
PhD Lond., MEIC  
Prof.  
Vaughan, V. E., MSc Maryland, BE,  
MEIC  
Assoc. Prof.  
Hamilton, P. C., BSc, MEIC  
Asst. Prof.  
Potyondy, J. G., DiplIng Bud., ME  
Asst. Prof.  
Guppy, E. A., MAsc Tor.  
Asst. Prof.  
Waller, D. H., DIC, BE, MEIC  
Asst. Prof.

### Electrical Engineering

Burchill, G. H., BSc Hon. DEng, MEIC  
Prof., Hd. of Dept.  
Grant, C. E., MEIC  
Asst. Prof.  
Duggan, K. F., BE  
Asst. Prof.  
Lindsay, J. F., BSc Glar.  
Asst. Prof.  
Callaghan, C. J., BE  
Asst. Prof.

### General Studies

Heaps, H. S., BSc Manc., MA Tor.  
(Engn. Maths.) Prof.  
Jackson, F., BSc Lond. (Engn. Maths.) Lectr.  
Jones, R. O., MD CM Dal.  
(Appl. Psychol.) † Lectr.

### Mechanical Engineering

Baker, M. L., BSc, MEIC  
Prof., Hd. of Dept.  
Cochranoff, O., BAsc Br Col.,  
MAsc Tor.  
Assoc. Prof.  
Ahern, W. K., BE  
Asst. Prof.  
Cliffe, J. B., BSc Mawt.  
Asst. Prof.  
Warner, J. L., SM M.I.T., BE  
Asst. Prof.  
Weld, G. B., MEng Sheff., BE  
Asst. Prof.

### Mining and Metallurgical Engineering

Cameron, E. L., MEng McG., MEIC  
Prof., Hd. of Dept.  
Collins, G. A., DIC, MA PhD Wash.,  
MEIC  
Asst. Prof.  
Aletan, G., DiplIng Berl., DrIng Clausthal  
Asst. Prof.

† Lectr.

### School of Architecture

Shadbolt, D., BArch Orgon  
Prof., Dir.  
Newman, O., BArch McG  
Asst. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Placement Officer & Alumni Sec. : J. B. Ternan, BE, MEIC.

\* Additional Member of the Association of Universities of the British Commonwealth

## ASSOCIATED UNIVERSITIES

ACADIA, DALHOUSIE, MONTREAL (NEWFOUNDLAND), MOUNT ALLISON, ST. FRANCIS XAVIER, ST. MARK'S and NEW BRUNSWICK (see separate entries). Students who have completed the 3-yr. course in engin. of one of these univs. may be

admitted direct to the 4th yr. of a degree course in engin. at the coll. Students who have completed the first 2 yrs of the engin. course will be admitted to 3rd yr. archt. upon recommendation of their deans of engin.

## GENERAL INFORMATION

The Nova Scotia Technical College was authorized by an act of the provincial legislature in April 1907.

The erection of the main bldg. proceeded during 1908 and the coll. was opened, with courses in civil, electr., mech. and mining engin., in the autumn of 1909. The 1907 act relating to technical educn. was repealed in 1947 and 2 new acts were passed by the provincial legislature placing engin. educn. and secondary tech. educn. under separate heads. Thus the coll. now confines its activities to work of univ. level only. Under the new N.S.T.C. act, authority was given for the establ. of grad. studies and res., and provison was made for close co-op. between the coll. and the N.S.R. Foundation. A further expansion in 1947 was the addition of the dept. of chem. and metall. engin. In 1953 the dept. of metall. engin. was transferred to the jurisdiction of the dept. of mining engin., thus becoming the dept. of mining and metall. engin. In 1961 the coll. added a sch. of archt., the 1st degrees in this field will not be granted until 1965. During the same yr. the coll. extended its grad. study programme to PhD level in the various branches of engin.

The coll. is situated in Halifax (pop. 90,075), capital city of the province of Nova Scotia.

**CONSTITUTION.** The coll. is governed by a bd. of govt. under the chairmanship of the minister of educn. of N.S., a senate under the chairmanship of the pres. of the coll., and the fac. under the chairmanship of the pres. In general the fac. reports to the senate, and the senate reports to the bd. of govt. on all matters pertaining to the operation of the coll., and the bd. reports annually to the lt.-governor in council. The associated univs. are represented on the bd. by their presidents and on the senate by the deans of their respective depts. of engin.

**INCOME (1960-61)** \$552,397 (prov. of N.S., 63 per cent.; govt. of Canada, 11 per cent.; fees, etc., 26 per cent.)

**DEAN AND DIRECTORS.** Dean of undergrad. studies, Prof. G. H. Burchall (electr. engin.); dir. sch. of grad. studies, Prof. G. G. Meyerhof (civil engin.); dir., sch. of archt., Prof. D. Sheddolt.

**COLLEGE FACILITY.** The coll. campus is located near the centre of Halifax on Spring Garden Rd. and Barrington St. The present

plan of devel. is to bring as many as possible of the individual depts. under one roof.

**LIBRARY** 16,000 vols.

**LABORATORIES** Chem., civil, electr., mech., metall. and mining engin.

**ADMISSION.** See 'Assoc. Univs.' above and Appendix III.

**Advanced Standing.** Any person may be admitted to advanced standing in the coll. by passing such exams. as are deemed necessary by the coll. fac., or by presenting such certs. of previous records of study or experience as shall satisfy the fac.

**Special Student.** Persons without the necessary entrance qualifs. may be permitted to take a limited no. of regular courses for which no credit towards a degree will be granted.

**FIRST DEGREES.** BE, BE with distinction, BE hona (chem., civil, electr., mech., metall., mining), 2 yrs., after 3 yrs. at assoc. univ.; BArch, BArch with distinction, 4 yrs., after 2 yrs. at assoc. univ. (see 'Assoc. Univs.' above and Appendix III).

**HONOR DEGREES.** ME, 1 yr. full-time or 3 yrs. pt.-time, open to grads. with high scholastic standing from recog. engin. degree-granting univs.; PhD, 2 yrs. beyond ME, open to holders of satisfactory ME or MSc degrees.

**HONORARY DEGREE.** DEng.

**RESEARCH.** Facilities available for res. up to level of PhD degree in most fields of chem., civil, electr., mech., metall. and mining engin. Annual Report lists res. in progress.

**STUDY LEAVE.** No regular practice, but staff members are granted leave of absence after a no. of yrs.' service to pursue further studies. In such cases the coll. makes financial arrangements with the individuals concerned.

**GENERAL FEES.** Tuition, \$325 p.s.; grad. studies, \$100 per sub.; spring courses, \$62.5; students' soc., \$26.5 p.s.

**ACADEMIC YEAR.** Sept. to May: 2 terms of 14 wks. each.

**PRINCIPAL 'GIVEN' AWARDS (undergrad.).** American Soc. for Metals, \$500 p.s.; Internat. Nickel Co. (2), \$1,200 p.s.; Aluminum Co. of Canada, \$700 p.s.; Northern Electric schol., \$300 p.s.; N.S. Road Builders Asscn. bursary, \$200 p.s.; Atlantic Sugar Refiner's (2), \$500



p.a., Unemployment of Canada, \$750 p.a.; coll. loan fund to max. of \$400 p.a.

**PLACEMENT SERVICE**, operated through the registrar's office, is available to students and alumni.

**ALUMNI ASSOCIATION** is composed of hon. and active members. Governing body is an executive comm. elected by the annual meeting in Nov.

**MILITARY TRAINING**. The *Four Services Try Scheme* was introduced in 1946. The programme extends over 3 yrs and consists of a series of lectures during the coll. yr followed by from 12 to 22 weeks posting at a try. sch. during summer vac. The summer try. is taken in the sp. branch of the service selected by the trainee, who is recruited at

an assoc. univ. and completes try. at N.S.T.C. Under the *Regular Officer Try Plan* students may apply for enrolment in the regular forces of any service. The dept. of natl. defence pays candidates' fees and candidates are also paid while at the coll.; they agree to serve for min. of 3 yrs.

**STUDENTS' SOCIETY**. The recognized means of communication between the fac. and the student body. It is designed to co-ordinate and control all extra-curriculum student activities. Every student is a member.

**PHYSICAL TRAINING**. Gymnasium.

**PUBLICATIONS**. *Colowin* (spring); *Report* (annual), *Tech Flash* (yearbook), *Alumni Bulletin* (4 eds. p.a.).

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS**. Bldg. approaching completion F. H. Seaton memorial gymnasium.

**NEW DEPARTMENTS AND CHAIRS**. Sch. of grad. studies.

**REGISTRARS**. G. F. Vail (electr. engin.), appd. to civil service of Canada; C. F. Bates (electr. engin.), to further grad. studies in U.S.A.

**HONORARY DEGREES**. *DEng*—M. F. Goudge, former indus. minerals div. chief of federal mines and tech. surveys dept.; Dr. J. E. Keyson, defence res. bd. vice-chairman.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	331	11
Women	1	—
Total	332	11

Distribution by Faculties, etc. *Engn.*, 331; *archit.*, 12. Total 343.

*Included in the figures above are:—*

Postgraduate students, 15; 'specials' in graduate courses, 3.

New admissions, 209.

Students from other countries, 38. (Countries from which largest numbers came: Hong Kong, 8; Indonesia, 6).

**DROPPERS AWARDED (1960-61)**. BE(Civil), 62; BE(Electr.), 31; BE(Mech), 18; BE(Mining), 2; BE(Metall), 1; BE(Chem), 10; BE(Civil) hon., 1; BE(Electr) hon., 7; BE(Mech) hon., 5; BE(Chem) hon., 2; BE(Mining) hon., 1; ME, 1. *Total number of first degrees awarded by N.S.T.C., 140.*

# UNIVERSITY OF OTTAWA\*

Founded 1848; incorporated as a University 1866

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Cables and Telegrams: University of Ottawa, Canada

Telephone: Central 5-6751

VISITOR—The Hon J K MacKay, DSO, VD, Hon LLD, Lieutenant-Governor of Ontario  
 APOSTOLIC CHANCELLOR—H.E. the Most Rev. M -J. LEMIEUX, Archbishop of Ottawa  
 RECTOR—Very Rev H F. LAGARÉ, MScSc *Laval*, DScSc *Lille*, BA Hon LLD *Car. & Annu*  
 VICE-RECTORS—Rev A. CARON, PhD STD JCD; Rev M. BELANGER, BA *Montr.*, PhL *Rouv.*, STD  
 SECRETARY-GENERAL AND REGISTRAR—Rev G. GAGNON, MA PhL  
 TREASURER—Rev A. L. WALKER, MA PhL STL  
 COUNCELLORS—Rev R. LAVIGNE, BA PhL STB; Rev J. MONTION, BA  
 CONTROLLER—Rev L. THÉRIEN, BA DiplIndAcc  
 LIBRARIAN—Rev P.-E. DROUIN, MA *Montr.*, PhL, *Pouf./Athen Anglcan.*, MLS *Cal.*, STL

## TEACHING STAFF

(†=Part-Time)

<b>Accounting</b>		Scoggan, Sybil H., MSc McG., PhD	Lectr.
Trudens, Rev. R., MCom <i>Tor.</i> , BA <i>Montr.</i> , PhL	Prof., Hd. of Dept	Robertson, Mrs. Florence, MSc McG.	Instr.
<b>Anatomy</b>		<b>Biology</b>	
Mahou, R., LScCom <i>Montr.</i> , BA	Asst. Prof.	Dugré, L. P., OBE, BA MSc <i>Laval</i> , PhD <i>Penn.</i> , FRSCan	Prof., Hd. of Dept
Boulanger, C., BCom MSc <i>Laval</i> , CA	Lectr.	Des Marais, A., BA LSc <i>Montr.</i> , PhD <i>Laval</i>	Prof.
Lafrenière, C., MCom <i>Laval</i>	Lectr.	Dodson, E. O., BA <i>Car. &amp; Mim.</i> , PhD <i>Calif.</i>	Prof.
Lafrenière, R., BCom, CA	†Lectr.	Vladykov, V. D., PhD <i>Prague</i> (on leave)	Prof
<b>Arabic</b>		Latham, Q., BA <i>Ripon</i> , MSc <i>Manchestr.</i> , PhD	(on leave) Assoc. Prof.
Auer, J., MD DSc <i>Ley</i>	Prof., Hd. of Dept	Legault, Rev. R., MSc <i>C. U. A.</i> , PhD <i>Mich.</i> , BA STB	Assoc. Prof.
Buhatirchuk, F., MD DSc <i>Kiev</i>	Assoc. Prof.	Perrault, Rev. M., MSc <i>Conn.</i> , LSc <i>Laval</i> , BA PhL STL	Assoc. Prof.
Mitchell, R., MA MB ChB <i>Glas</i>	Assoc. Prof.	Choquette, L., BA <i>Montr.</i> , MSc	†Assoc. Prof.
Szabo, J., MD <i>Pécs</i>	Asst. Prof.	PhD <i>McG</i>	†Assoc. Prof.
Hall, Elizabeth A., MD <i>Tor.</i> , PhD	Lectr.	Williamson, G. S., MD <i>Tor.</i>	†Assoc. Prof.
Vogelfanger, I. J., MD DMedSc <i>Lavon</i>	Res. Assoc.	Godin, C., BA BScA DSc <i>Laval</i>	Asst. Prof.
<b>Arabic</b>		Vallancourt, J., BScA <i>Laval</i> , MSc	Asst. Prof.
Zetoun, L., BA MSW	†Lectr.	Arnold, J. W., BA MSc PhD <i>W. Ont.</i>	†Lectr.
<b>Bacteriology, see Medicine</b>		Labelle, R., BA PhL	†Lectr.
<b>Biochemistry</b>		Munro, D., BA <i>Br. Col.</i> , PhD <i>Tor.</i>	†Lectr.
D'Iorio, A., BSc PhD <i>Montr.</i>	Prof., Hd. of Dept.	Montgomery, D., MD CM <i>Que</i>	†Lectr.
Ryan, M. T., MSc <i>N. U. I.</i> , PhD <i>McG</i>	Assoc. Prof.	Stevenson, I. L., MSA <i>Tor.</i> , PhD <i>Louv.</i>	†Lectr.
Benaiton, N. L., BSc <i>Loyola</i> , MSc	Asst. Prof.	<b>Botany</b>	
PhD <i>Montr.</i>	Asst. Prof.	LeBlanc, Rev. F., BA PhD <i>Montr.</i> , MSc <i>Iowa</i>	Asst. Prof.
Park, W. K., MD <i>Stool</i> , MSc <i>Dal.</i>	Asst. Prof.		
Malham, A., MD <i>Montr.</i> , PhD <i>McG</i>	Visiting Lectr.		

\* Member of the Association of Universities of the British Commonwealth

Weinberger, Mrs Pearl, MSc *Manu*,  
PhD

†Lectr.

### Business Administration

Gallant, F. W., BCom *Que*, MBA *Boston* Lectr  
Stock, E. H., BSc *W.Ont.*, MBA *Syr.* †Lectr

### Canon Law

Caron, Rev. A., STD JCD PhD Prof.  
Chaput, Rev. R., DD*Civil Pontif. Athen*  
*Lateau*, BA STL JCD Prof., Sec  
Lafrenouille, Rev. R., DDC  
LDC*Civil Pontif. Athen. Lateran*, BA DPh  
Prof., Vice-Dean of Fac  
Lease, Rev. G., STD *Greg.*, MA PhD  
JCD DSc D*SciL* Prof.

### Chemistry

Laidler, K. J., MA DSc *Oxon*, PhD *Prin.*,  
FCIC, FRSCan Prof., Hd. of Dept.  
Belleu, B., MSc *Mantr*, PhD *McG.*,  
FCIC Prof.  
Anet, F. A. L., MSc *Syd*, DPhil *Oxon*, Assoc. Prof.  
Baer, H. H., Dr*RerNat Heidel* Assoc. Prof.  
Conway, B. E., DIC, PhD DSc *Leid.*,  
FRIC Assoc. Prof.  
Bader, R. F. W., MSc *McM.*, PhD *M.I.T.*  
Asst. Prof.  
Fraser, R. R., MSc *W. Ont.*, PhD *Ill.* Asst. Prof.  
Fraser, R. T. M., MSc *N.Z.*, PhD *Chur* Asst. Prof.  
Westhead, A. D., BSc MA PhD *Tor.* Asst. Prof.  
Ingraham, Mrs. Eleanor, BA *Que* †Lectr.  
Jones, R. N., PhD DSc *Manu.*, FCIC,  
FRSCan †Lectr.  
Morrison, J. A., MSc *Alta.*, PhD *McG.*,  
FCIC, FRSCan †Lectr.  
Gagne, Rev. E., PhD *Rome*, L*ibL. Laval*,  
DU*Paris*, BA *ThL*, Hd. of Dept.  
Kiesic, S., D*ipL. Eccl. Sup. Zangheri* Lectr.  
Lacour, A. R., BEd MA *Quebec* Lectr.  
Maloney, J. C., BA *L*ibL. Laval**, Lectr.  
Rysse, L. D. M., MA *Lond.* †Lectr.  
Russell, K., MA †Lectr.  
Wells, C. M., MA *Oxon* †Lectr.

### Commercial Law

Aiken, M., BCom *Que* Lectr.  
Maloney, J. C., BA *L*ibL. Laval**, Lectr.

### Drawing

Frank, M. G., P*DA* *Edinb.*, B*Ed* Lectr.

### Economics

Parsons, O. J., MABcon *McG.*,  
PhD *Penna* Prof.  
Brunt, Rev. F., PhD *St. Louis*, MA STL, on *Lib.*  
Judek, S., MA *St. Aud.*, PhD *Eds.* Assoc. Prof.

Borcham, G. F., MA Asst. Prof.  
Lamontagne, M., MA *Hav* Vice-Dean  
May, S., MA †Lectr.  
Schonning, G., PhD *Tor.* †Lectr.  
Strukel, A., MSc *L*ibL. Laval**, PhD *Bologna* †Lectr.  
Tyler, D. C., MA *Tor.* †Lectr.

Education, see Psychol and Educn.

### Embryology, see Medicine

### Engineering

Rowe, R., BEng *McG.* Asst. Prof.  
Carrier, M. L., BScA *Mantr.* †Lectr.  
Sinnakowsky, A. J., MSc *Lasos* †Lectr.  
Smith, E., MA PhD *Canb.* †Lectr.

### Engineering, Chemical

La, B. C. Y., MASC PhD *Tor.* Assoc. Prof., Hd. of Dept.  
Basmadjian, D., BSc *Zur.*, MASC  
PhD *Tor.* Asst. Prof.  
Mann, R. S., MSc *Altd.*, PhD *Hall* Asst. Prof.  
Malick, M. A., BSc *Dacca*, MSc *Burn.* Lectr.  
Belonger, J. M., BScA †Lectr.  
Dietiker, W., BScE *Br. Col.*, PhD *Manu.* †Lectr.  
Hayes, S. C., BA *Dal.*, BSc *N.S.T.C.* †Lectr.  
Casey, E. J., BSc *St. F.X.*, PhD *C.U.A.* †Lectr.  
Harvey, E. A., BSc PhD *Lond.* †Lectr.

### Engineering, Electrical

Ginska, G. S., D*ipling Ding Warsaw* Prof., Hd. of Dept.  
Galbraith, R. A. H., OBE, CD, BSc  
MA *Tor.* Prof.  
Benochene, L.-A., BA BPh BScA *Laval*,  
MSc, MEIC Assoc. Prof.  
Celinski, O., Ing*Dipl Polak Univ. in Exls* Asst. Prof.  
Marsh, J. V., BSc(Eng) *Lond.* Asst. Prof.  
Mikowar, Z., BSc *Manu.* Lectr.  
Embleton, T. F. W., BSc PhD *Lond.* †Lectr.  
Shaw, E. A. G., BSc PhD *Lond.* †Lectr.  
Wierzbowski, S. W., D*ipling Elec Lond.* †Lectr.

### English Language and Literature

O'Grady, E., MA PhD Prof., Hd. of Dept.  
McGuinty, D. J., BCom MA *Colgate*,  
PhD Assoc. Prof.  
Marcotte, P., MA *St. John's (N.Y.)*, PhD  
Assoc. Prof.  
Ryan, Mrs. Marana, MA *Tor.*, DU*Paris*  
Stock, L., BA *PhL* Asst. Prof.  
Robinson, L. L., MA *Cal.*, DU*Paris* Asst. Prof.  
Campbell, A. E., BA *Laval*, MA  
PhD *Bordman* Asst. Prof.  
Plannery, J. W., BMA *Yale* Lectr.  
Griffin, J. (BA) Lectr.  
Rothschild, L. W., BA *Edinb.* Lectr.  
Curley, J., BA *St. Louis*, MA *PhD* †Lectr.  
Grady, H. W., MA *C.U.A.*, PhD *Misc.* †Lectr.  
Hubbard, G. B. †Lectr.

## French

- Juhen, Rev. B., Ph.D. *Paris Athén. Angelicum*,  
L.S.L. *Paris*, BA STL Prof., Hd. of Dept.  
Hamel, Rev. C., BA Ph.D. STL Assoc. Prof.  
Spiekens, J., MA D.Litt. Nymegen,  
Cert. Litt. & Phon. Paris Assoc. Prof.  
Wyczyński, P., L.S.L. Dupl'd'Ét Sup Laval,  
Ph.D. Assoc. Prof.  
Ménard, J., BA L.S.L. Laval, DU Paris Assoc. Prof.  
Robitoux, Rev. R., Ph.D. STL Rome,  
L.S.L. Laval Assoc. Prof.  
Mailhot, C., L.Ph. Diss. Rome Assoc. Prof.  
Betta, Mrs. Madeleine, BA Lectr.  
Herbier, J. J., Dupl'd'Ét Sup Brussels Lectr.  
Cloutier, Cécile, L.S.L. Dupl'd'Ét Sup Laval Lectr.  
Krupka, Mrs. Laura, B.S.L. Paris Lectr.  
Renaud, A., BA Lectr.  
Tremblay, N., BA Lectr.  
Lalonde, G., BA †Lectr.  
Lectier, J. A., BA †Lectr.  
Beaudet, A., BA †Lectr.  
Brule, O., BA †Lectr.  
Saint-Jean, Rev. O., BA Cert. Litt. Fr. †Lectr.  
Vezina, Miss Gastone †Lectr.

## Geodesy

- Saint-Denis, R., BA Monstr., B.A.P.  
B.S.A. Laval Prof., Asst. Dean

## Geography

- Zaboralski, B., Ph.D. Warsaw Prof., Hd. of Dept.  
Joat, T., M.Ph. Cremona, Ph.D. Monstr. Assoc. Prof.  
Ray, D. M., BA Mass Lectr.  
Vucero, R. D., BA McM., MS Wis. Lectr.  
Nicholson, N. I., BA MSc W. Ont., Ph.D. †Lectr.

## Geology

- Baird, D. M., B.Sc. New Br., MSc Reech,  
Ph.D. McG. Prof., Hd. of Dept.  
Dineley, D. L., B.Sc. Ph.D. Birm., FGS Assoc. Prof.  
Best, M. G., B.S. Utah, Ph.D. U.C.L.A. Assoc. Prof.  
Fyson, W. K., MSc N.Z., Ph.D. R'g. Asst. Prof.  
Garth, D. D., MA Sc. Tor., Ph.D. McG. Asst. Prof.  
Sasschagren, Rev. R., L.Sc. Laval, MA Br. Cal.,  
BA Assoc. Prof.

## German

- Fried, P., B.Com. †Lectr.

## Greek, see Classics

## Histology and Embryology, see Medicine

## History

- Thivierge, Rev. E., MA Ph.L. STL Prof.  
Vannese, A. R., BA Vermont, MA  
Ph.D. Monstr. Assoc. Prof., Hd. of Dept.  
Mostovnik, M., L.L.L. Zagreb, L.L.D. Rome Asst. Prof.

- Guimond, L., B.Péd. MA Monstr. Asst. Prof.  
Dubé, J. C., Ph.L. MA (on leave) Lectr.  
Gwyn, J. J., MA McG., BLitt. Orono Lectr.  
Lebrun, R. A., BA St. John's, MA Minn. Lectr.

## Household Economics

- Sr. Marie-Solange, MA. Corn. Dir. of Sch.  
Sr. Ste. Croix, B.Sc. Monstr. Lectr.  
Sr. Ste. Jeanne-du-Sauveur, MA Monstr. Lectr.  
Sr. Ste. Lucie-de-Notre-Dame,  
B.Sc. Laval Lectr.  
Sr. Ste. Louise, B.Sc. Laval Lectr.  
Jutra, R., B.Sc. D.Sc. Laval †Lectr.  
Lupien, P., M.Sc. Ph.D. Cors †Lectr.  
Carr, Mrs. Michelle, B.Sc. (H.E.C.) †Lectr.  
Saint-Hilaire, Suzanne, BA Laval,  
M.Sc. Mass. †Lectr.

## Latin, see Classics

## Law, see also Comm. Law

- Azard, P., L.L.D. L.S.L. Paris Dean of Civil Law  
Peacey, T. G., BA LL.B. Dal. Dean of Common Law  
Alexander, E. R., B.Com. LL.B. Tor.,  
LL.M. Calif. Asst. Prof.  
Ducharme, L., BA Ph.L. L.L.L. Asst. Prof.  
Bergeron, V., BA L.L.L. Asst. Prof.  
Hubbard, H. A., BA Asst. Prof.  
Pharmod, A. D., LL.M. Dal., Dren.Droit Asst. Prof.  
Pépin, G., L.L.D. Bordeaux, BA L.L.L. Asst. Prof.  
Vlasic, I. A., BCL. Zagreb, LL.M. McG. &  
Yale, J.S.D. Yale Asst. Prof.  
Ayien, J. A., BA L.L.L. †Lectr.  
Bédard, R., QC, L.L.L. Monstr., BA Ph.L. †Lectr.  
Bouchet, J., BA L.L.L. †Lectr.  
Brisset, J., BA L.L.L. †Lectr.  
Cadieux, M., BA L.L.L. †Lectr.  
Caron, G., BCL. McG., BA Lectr., Sec. of Fac.  
Codere, C., BA L.L.L. Monstr., LL.D. †Lectr.  
Couture, L.-A., L.L.L. Laval, MA L.Police  
Ph.L. †Lectr.  
Des Rivières, F., BA L.L.L. Laval †Lectr.  
Boland, J. D. C., BA Tor. †Lectr.  
Chevalier, F., BA Laval, LL.B. Monstr. †Lectr.  
Cole, C., BA LL.M.  
Deschênes, G., Dupl'd'Ét Sup Paris, BA  
Ph.L. L.L.L. Lectr.  
Diplock, D. D., BA McG. †Lectr.  
Dumoulin, J., BA LL.D. Laval †Lectr.  
Frenette, O., BA Cor., BCL. McG., LL.D. †Lectr.  
Fyfe, M. H., BA Orono †Lectr.  
Galligan, F., BA †Lectr.  
Hamblong, D.  
Hendry, J. McL., BA LL.B. Dal.,  
LL.M. Harv. & Mich., S.J.D. Mich. †Lectr.  
Henry, D. W. H., BA Qu. †Lectr.  
Kavanagh, J. A., B.Com. LL.B. Lectr.  
Lalonde, M., L.L.L. Monstr., BA Monstr. &  
Chan †Lectr.  
L'Heureux, J., Dupl'd'Ét Sup Paris, BA  
L.L.L. Lectr.

## CANADA

Maltais, P., BA LLL  
 Quinn, H., BCom BCL McG., BA  
 Farley, L., BA LLL  
 Farley, R., BA LLL  
 Garon, A., BA LLL  
 Hewatt, A. T., LLB  
 Hughes, R., QC, LLB  
 Lahérouille, Rev. R., DDC

LDCivil Pontif. Athen. Lateran., BA DPH

Loisig, A., BA LLL  
 Missé, P., BCom  
 McIntosh, H. A., BA LLB Sask.,  
 LLM Dal.  
 Ménard, R. L., BA PhB LLB BSc  
 Goun, L.-M., LL.D.  
 Morisset, G., MA LLL  
 Murray, M. A., LLB Tor.  
 Ollivier, M., QC, BA LLB Laval,  
 LL.D. Moncton, FRSCan  
 Read, J. E., QC, BA Dal. & Oron.,  
 LL.D. Dal. & McM., DCL Oron.  
 Tarnopolsky, W. S., BA LLB Sask.  
 Toupin, L., BA LLL  
 Paquin, M., BA LLL  
 Stein, C., QC, BA PhL LLL Laval  
 Taschereau, Hon. R., BA LLB Laval,  
 LL.D. Laval, Moncton & Ott.

### Library Science

Morisset, Rev. A.-M., MLS Cal., BA JCL  
 Prof., Dir. of Sch.  
 Lomer, G. R., MA McG., PhD Cal., FLA  
 Prof., Asst. Dir.  
 Ringrose, Enid, BA McM., BLS  
 Lectr., Asst. Librarian  
 Aubay, C., BA BLS McG.  
 Brown, J. E., BA Alta., BLS McG.,  
 MA Chic.  
 Foster, Mrs. Thérèse  
 Gauthier, Olive, MA BLS McG.  
 Lamb, W. K., MA PhD Lond., LL.D. Paru  
 Martenson, Anna, BA MS Col.  
 Morton, Elizabeth, BA  
 Stephenson, L., MA BLS  
 Sylvestre, G., MA PhL, FRSCan

### Mathematics

Lama, V., DiplMath Latona,  
 MSc PhD McG., Prof., Hd. of Dept.  
 Hoffenstein, H., PhD E.T.H. Zurich,  
 MSc Zur.  
 Vachon, L., BA MCom Moncton.  
 van der Muis, G. J., DSc Amst.  
 Grandchamp, Y., MSc Moncton.  
 Howland, J. L., MA Tor., PhD Harv.  
 Howan, T., MA Alg., PhD Syr.  
 Klossa, H., DiplMath DSc E.T.H. Zurich  
 Cloutier, W., MEcon Laval  
 Rukiewicz, M., DiplMathsTech Warsaw  
 Cloutier, R. J., BA MSc PhD McG.

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Mechanics

Rowe, R., BEng McG. Asst. Prof.  
 Conway, J., MSc Alta., PhD Tor.  
 Hayes, St.-C., BA Dal., BSc N.S.T.C.

### Medicine, see below

### Missiology, Institute of

Champagne, Rev. J.-E., MScD Rowe, MA  
 PhL STB Prof., Dir.  
 Tardieu, J., BA Lectr.  
 Valentine, V., MA Tor. Lectr.

### Musio

Mastel, Rev. J., Dipl Pontif. Inst. Mus. Sacr.,  
 BA JCB Lectr.  
 Cournoyer, Rev. B., BA PhL STL Lectr.  
 Aubé, L., BA LPh LTH Lectr.

### Nursing

St. Francoise-de-Chantal, MSc(NursAdms)  
 C U A Dur. of Sch.  
 St. Paul Armand, BScEdInf Asst. Dir.  
 St. Madeleine-de-Jésus, MScEdInf Prof.  
 Fortier, Rev. Gilbert, MA PhD Regent  
 Stock, Joan, BScPHN Assoc. Prof.  
 St. Elisabeth-Marie, BScEdInf Asst. Prof.  
 St. St. Albert, BScEdInf Lectr.  
 Baunet, Mrs. Mathilde, CertNED Lectr.

### Personnel Management

Dennison, R., MA Dal. Lectr.

### Philosophy within the Fac. of Arts (see also p. 308)

Giroux, Rev. M., MA PhL STD  
 Prof., Hd. of Dept.  
 Beauchamp, Rev. M., PhD STL  
 Prof., Sec. of Fac.  
 Gadouras, Rev. O., BA PhL STB  
 Prof., Vice Dean  
 Wojciechowski, J., PhB Louvain, PhD Laval  
 Assoc. Prof.  
 Scully, E., BSc MA Tor.,  
 LBMéd Pontif. Inst., Tor. Asst. Prof.  
 Visgak, C., MA Tor., PhL Asst. Prof.  
 Dancause, G., BA PhL Lectr.  
 Dewan, J. L., MA Tor. Lectr.  
 Dubé, W., BA PhL Lectr.  
 Gravel, L. O. J., PhB Laval, PhL Lectr.  
 Major, J. L., BA PhL Lectr.  
 Petrasoja, S., MA Lectr.

### Physical Education

Montpetit, Rev. M., BA  
 Assoc. Prof., Dir. of Inst.  
 Lendry, J. F., BA MSc(PhEd) Ill.  
 Assoc. Prof., Asst. Dir.  
 Métivier, G. J., BSc MS Phd III Asst. Prof.  
 Marcotte, J. E. G., BA MS III Lectr.  
 Beauchemin, J. M., MSc III Lectr.  
 Sheedy, A., MSc III Lectr.

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- Robson, J. M., BA *Canb.*, FRSCan, FAPS Prof., Hd. of Dept.  
 MacDonald, D. K. C., MA *Edu.* & *Orn.*, Ph.D. *Edu.*, DPhil *Oxon.*, FRS Hon. Prof.  
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 Fauweather, I. L., BSc Ph.D. *Edu.* Asst. Prof.  
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 Lamarche, G., BSc *Montr.*, MSc Ph.D. *Br. Col.* Asst. Prof.  
 Smith, R. C., BSc *W. Ont.*, MSc *McG.* Asst. Prof.  
 Constable, A. R., BSc *Lond.*, MSc Lectr.  
 Dugdale, J. S., MA DPhil *Oxon.* Lectr.  
 Pearson, W. B., MA DPhil *Oxon.* Lectr.  
 Ramsay, D. A., MA Ph.D. *Canb.* Lectr.

**Polish Language and Literature, see**  
Slavic Studies**Psychology and Education**

- Shavenell, Rev. R., MA Ph.D. Prof., Dir., Sch. of Psychol. & Educn., Chairman, Sch. of Grad. Studies.  
 Chagnon, M., MA Ph.D. Ph.D. Prof.  
 Dayhew, L. T., Ph.D. *Louvain* Prof.  
 Papluskas-Ramunas, A., M.Litt. *Kansas*, Ph.D. *Vienne* Prof.  
 Sedulins, Agathe, MA *Kansas*, Ph.D. *Adrian* Prof.  
 Szyrnyski, V., M.D. *Warsaw*, Ph.D., FRCPCan Lectr.  
 Benoit, J.-M., MA Ph.D. Asst. Prof.  
 Celovski, Mrs. Angeline, Ph.D. *Haidel.* Asst. Prof.  
 Chagnon, G., BA BPh. M.Ps. Asst. Prof.  
 Isabelle, L., BA MEd. Asst. Prof.  
 Pilon, Marguerite, M.Ps. Asst. Prof.  
 Andrew, Rev. St. Mary, BA MEd. Lectr.  
 Barry, W. F., BA BPh. Lectr.  
 Lavigne, R., BA BPh. Lectr.  
 Raymond, M., MA Lectr.  
 Desjarlais, L., MA Ph.D. Lectr.  
 Forde, J., MA Ph.D. Lectr.  
 Rennud, Rev. A., MEd. Tor., Ph.D. STL Lectr.

**Psycho-Physiology**

- Côté, F., MD MS Tw., BA Ph.D., FRSCan, FACS Lectr.  
 Gratton, Rev. H., MA Ph.D. STL Lectr.

**Public Administration**

- Hamel, J. M., MScCom *Laval*, MPA *Sys.* Lectr.

**Public Speaking**

- O'Grady, E., MA Ph.D. Prof., Hd. of Dept.  
 Herbert, J., DipLES *Brunel's* Lectr.

**Religion**

- Bradley, Rev. P., MA JCL Ph.D. Prof.  
 Vlasio, Vern, STL *Zagreb*, L.Soc. *Louvain* Lectr.

- Bilodeau, Rev. W., STL Lectr.  
 Charbonneau, Rev. G., Ph.D. STL *Greg.* (on leave) Lectr.  
 Lednet, Rev. A., STB *Paris* Lectr.  
 Parent, Rev. M. E., BA STL Lectr.  
 Dooley, Rev. J., MA STD Lectr.  
 Mabe, Rev. J. W., BA Ph.D. STL Lectr.  
 O'Grady, Rev. F. T., Ph.D. Lectr.  
 Tillard, Rev. R.-M., STL Lectr.

**Russian, see Slavic Studies****Slavic Studies**

- Bida, C., Ph.D. *Vienne* Assoc. Prof., Hd. of Dept.  
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 Mostovac, M., L.L.L. *Zagreb*, L.L.D. *Rome* Lectr.  
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 Levitsky, N. Lectr.

**Social and Political Science**

- Quirion, Rev. J. M., BA MSc(Econ) *Louv.*, B.Com. *S.A.*, Ph.D. STB Dean of Fac.  
 Buxton, G., MA *Manch.*, DU *Paris* Prof.  
 Péron, J.-L., BA Ph.D. DipPolSci *Paris*, L.L.L. Assoc. Prof.  
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 Keller, P. A., Ph.D. *Vienne* Lectr.  
 Ross, G. W., BA Lectr.  
 Laure, Rev. J., MA *Notre Dame*, BA Ph.D. STL Lectr.  
 Hamel, J. M., MScSoc *Laval*, MPA *Sys.* Lectr.  
 Hamel, J. P. R., BA Lectr.  
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**Social Work**

- Bowers, Rev. S., MSc *Cal.*, BA Prof., Dir. of Sch. (St. Patrick's Coll.)  
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 Cruz, V. J., BA MSW Asst. Prof.  
 Selyan, Alice A., BA *Tor.* Asst. Prof.

**Spanish**

- Lozano, A., MA *Malaga*, BA Lectr.

**Statistics**

- Clouser, Rev. G., BA Ph.D. STL Prof., Hd. of Dept.  
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 Stukel, A., MSc *Ljubljana*, Ph.D. *Bologna* Lectr.

**Theology**

Gervais, Rev. J., PhL <i>Pontif Athen Angelicum</i> , STD	Prof.
Craon, Rev. V., STD	Prof.
PhD <i>Pontif Athen Angelicum</i>	Prof.
Guindon, Rev. R., DTh <i>PhD BA PhL</i>	Prof.
Muscothe, Rev. E., MA PhL STD	Prof.
Prof., Vice-Dean of Fac.	
Bélanger, Rev. M., BA PhL STD	Prof.
Joppola, Rev. A., STL PhD <i>Rome</i>	Prof.
Pagano, Rev. S., STD <i>SScL Rome</i> , PhD	Prof.
Beikmans, Rev. R., BA PhL STD	Prof.
Prof., Sec. of Fac.	
Jetté, Rev. F., MA PhL STD	Assoc. Prof.
Boudens, Rev. R., DHE	Lectr.
Chenier, Rev. M., BA PhL STL <i>Rome</i>	Lectr.
Goudreault, Rev. H., BA PhL STL	Lectr.
Hudon, Rev. G., BA STD	Lectr.
Diplôme Suppl. Lat. Paris	Lectr.
Lebeige, Rev. L., PhL STL	Lectr.
LeMarier, Rev. J.-G., BA PhL STL	Lectr.
Gagnier, Rev. A., BA PhL STL	Lectr.
Laurande, Rev. E., MA PhL STL	Lectr.
Robarge, Rev. M., BA PhL STL	Lectr.
Vézina, Rev. L. P., BA PhL STL JCL	Lectr.

**Translation**

Davault, P., FRSCan	†Lectr.
Goulet, D.	†Lectr.

**Ukrainian, see Slavic Studies****MEDICINE**

(for subjects of first two yrs.—  
Anat., etc., see above)

**Anaesthesia**

Law, D., MD CM Qu.	†Assoc. Prof.
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Hampson, L. M., MD <i>Tor.</i>	†Lectr.
Mainville, M., MD <i>Laval</i> , BA	†Lectr.
Whyte, D. W., MD <i>Qu.</i>	†Lectr.
Chatterjee, K., MB BS <i>Cal.</i>	Clin. Asst.
Jamason, Gaura, MD <i>Marburg</i>	Clin. Asst.
Rougnol, J.-P., BSc MD <i>Montr.</i> , BA	Clin. Asst.
Durocher, Juliette, MD <i>Montr.</i> , BA	Clin. Asst.
Kay, H. T.	Clin. Asst.

**Bacteriology and Hygiene**

Gibbons, R. J., MA MD DPH <i>Tor.</i>	Prof., Hd. of Dept.
Day, J. J., BA MD CM DPH <i>McG.</i>	Prof., Sec. of Fac.
Mitchell, C. A., BVSc <i>Tor.</i> , DVM <i>Montr.</i> , FRSCan	Assoc. Prof.
Beaulieu, M., BSc <i>Montr.</i> , MSc <i>PhD McG.</i>	Asst. Prof.
Zemniowski, R., MB ChB BSc <i>Dub.</i>	Asst. Prof.
Mosocco, G., MD <i>Naples</i> , PhD <i>Rome</i>	Asst. Prof.
Ilanko, B. J., MD DPH <i>Tor.</i>	†Lectr.
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Harris, F. F.	†Visiting Lectr.
Layton, B. D., MD <i>Tor.</i> , MPH <i>Harv.</i>	†Visiting Lectr.

**Biophysics**

Casey, E. J., BA <i>St F X.</i> , PhD <i>C.U.A.</i>	†Lectr.
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**Dermatology**

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Mescontani, E. S., BA <i>Tor.</i> , MD	Clin. Asst.

**Embryology, see Histol. and Embryol.****Ethics**

Marcoux, Rev. H., MA PhL STL <i>Grog.</i>	Prof., Regent of Fac.
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**Gynaecology, see Obstet. and Gynaecol.****Histology and Embryology**

Bélanger, L.-F., BA MD <i>Montr.</i> , MAMedSc <i>Harv.</i>	Prof., Hd. of Dept.
Hooper, Mrs. C. S., BSc PhD <i>McG.</i>	†Asst. Prof.
Florian, F., BA MD	Asst. Prof.

**Medical Jurisprudence**

Mermer, R., QC	†Lectr.
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**Medicine**

Fidler, A., MD <i>Warsaw</i>	Prof., Hd. of Dept.
Guest, W. A., MD <i>Tor.</i>	†Prof.
Fisher, T. L., MD CM <i>McG.</i> , FACP	†Assoc. Prof.
Smiley, R. K., BA <i>Sask.</i> , MD CM <i>Qu.</i> , FRCPCan	Assoc. Prof.
Berlman, F., MD CM <i>Qu.</i> , MSc <i>Georgetown</i> , FRCPCan	Asst. Prof.
Hilton, J. H. B., MD <i>McG.</i> , FRCPCan	†Asst. Prof.
Nancekivell, A. F., MD CM <i>McG.</i> , FRCPCan	†Asst. Prof.
Potvin, L., BA MD <i>Laval</i> , FRCPCan	†Asst. Prof.
Roussel, L., MD <i>Montr.</i> , BA	†Asst. Prof.
Bédard, O., BA MD <i>Laval</i>	†Sr. Lectr.
Sauvé, G., BA MD <i>Montr.</i>	Lectr.
Brooks, D. W., BA MD <i>Tor.</i>	†Lectr.
Fireman, H. H., MD <i>Tor.</i> , FRCPCan	†Lectr.
Fraser, J. T., MD <i>Qu.</i>	†Lectr.
Fortier, B., MD <i>Montr.</i> , BA	†Lectr.
Gagné, R., MD <i>Montr.</i> , BA	†Lectr.
Law, W. B., MD CM <i>Qu.</i>	†Lectr.
Mercier, J., MD <i>Laval</i> , FRCPCan, BA	†Lectr.
Powers, A., MD <i>Laval</i> , BA	†Lectr.
Purchase, E. C. R., BA <i>Sask.</i> , MD <i>Tor.</i> , FRCPCan	†Lectr.
Massee, K., MB ChB <i>Edu.</i>	†Lectr.
Sumard, Irene, MSS <i>Montr.</i> , MSW <i>Fordham</i>	†Lectr.
Julien, Lucile, MD <i>Montr.</i> , BA	Clin. Asst.
Kesley, O. J., MD	Clin. Asst.
Parent, E. P., MD	Clin. Asst.
Radolu, N., BA <i>Cluj</i> , MD <i>Laval</i>	Clin. Asst.

Riley, J. M., BA *St. Jar*, MD  
Valois, G., BA MD  
Villeneuve, P. J., MD

Clin. Asst.  
Clin. Asst.  
Clin. Asst.

### Medicine, History of

Mantha, L., MD *Montr.*, BA †Asst. Prof.

### Neurology, see Psychiatry and Neurol.

### Obstetrics and Gynaecology

Richard, A. L., BA *Ste.-Anne (N.S.)*, MD *Laval* Prof., Hd. of Dept.

de Saint-Victor, H., BA MD *Laval* †Prof.

Puddecombe, J. F., MD *McG.* †Prof.

Harting, A., BA MD *Alta.* †Assoc. Prof.

Nuyens, A. J., MD DSc *Utrecht* †Assoc. Prof.

Rea, D. H., FRSCan, FACS †Asst. Prof.

Whyte, J. C., MD *Qu.*, FRCOG, FRCSCan †Asst. Prof.

Smith, H. G., MD CM *Qu.* †Sc. Lectr.

Clinkett, F. R., MD *Tw.* †Sc. Lectr.

Carson, G. T., MD *Qu.* †Lectr.

Noel, M., BA MD *Montr.* Lectr.

Besudon, E., BA MD *Laval* Clin. Asst.

Bagge, J. A., MD *Qu.*, DGO *Dish.* Clin. Asst.

Kadaura, M. B., MD *Dalseldal* Clin. Asst.

Kronack, S., MD *Qu.* Clin. Asst.

Lemay, J., BA MD *Laval* Clin. Asst.

Reed, S. L., MD Clin. Asst.

Wett, L. O., MD *Qu.*, FRCSED Clin. Asst.

Rouleau, R., MD *Laval*, BA Clin. Asst.

Conklin, F. J., MD Clin. Asst.

### Ophthalmology

Gilhooley, J. P., MD CM *McG.* Prof., Hd. of Dept.

Allen, D., MD CM *Qu.* †Assoc. Prof.

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Watson, A. G., MB ChB *St. And.* †Sc. Lectr.

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### Oto-Laryngology

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Lefrançois, G. G., BA MD Clin. Asst.

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### Pediatrics

Conway, D. J., MA MD *Camb.* Prof., Hd. of Dept.

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Whillans, J. A., MD CM *Qu.* †Lectr.

Stewart, D. A., BA *Sask.*, MD *Tor.* †Lectr.  
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Mason, G., MD CM *Qu.* †Lectr.  
Morris, D., MD *Bud.* †Lectr.  
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### Parasitology

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Hill, D. F., MD Asst. Prof.

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### Pharmacology

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### Physiology

Lehman, E. J., MB *Tor.* †Lectr.

### Physiology, see also Psycho-Physiol., above

Bennet, Mrs. Margaret, MD *Bud.* Prof., Hd. of Dept.

Mainwood, G. W., PhD *Birm.* Assoc. Prof.

Robertson, P. A., BPharm PhD *Lond.* †Assoc. Prof.

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Hines, Mrs. Bernice, MA *Tor.* Instr.

Otsolenghi, P., MSc PhD *McG.* Lectr.

### Psychiatry and Neurology

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Blair, W. A., MD CM *Qu.* †Assoc. Prof.

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 Woodruff, W. A., BA MB BS *Louv* †Lectr.  
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 Abelson, S. J., MD †Lectr.  
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### Radiology

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 Crook, A. F., MB BCh, FRCSEd †Lectr.  
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 Monasse, K. J., BSc MD *McG* Clin. Asst

### Surgery

Ewing, J. B., MD CM *Qu*, FRCS,  
 FRCSCan, FACS  
 (Clin. S.) Prof., Actg. Hd of Dept  
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 Collins, W. E., MD CM *Qu*, FRCSCan  
 †Assoc. Prof.  
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 Kollum, H. I. J., MD *Tor.* †Assoc. Prof  
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 (Clin. S.) †Assoc. Prof., Sec. of Council  
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 Beattie, W. G., MD *Tor.*, FRCSCan †Asst. Prof.  
 Drouin, J.-P., BA *Louv*, BSc MD *Mon*,  
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### Therapeutics

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### PHILOSOPHY

(see also p 304)

Croteau, Rev. J., MA PhD STL Prof  
 Saint-Denis, Rev. H., PhD STD *Pontif. Athen.*  
 Angelhaus, BPhD *Tor*, BA Prof  
 Carrière, Rev. G., STL *Grag.*, BA PhD Prof  
 Ducharme, L., PhD *Louvain*, BA STL Prof  
 Gratton, Rev. H., MA PhD STL Prof  
 Patry, Rev. M., MA STL PhD  
 Assoc. Prof., Sec. of Fac.  
 Storch, Rev. C., STD *Bonn*  
 Assoc. Prof., Vice-Denn of Fac.  
 Allard, J.-L., PhD *Paris*, BA PhL Assoc. Prof  
 Courmoyer, Rev. B., BA PhL STL Lectr.  
 Dancose, Rev. D., BA PhL STL Lectr.  
 Gauguier, Rev. F., PhL STL *Grag.* Lectr.  
 Paquet, Rev. L., BA PhL STL Lectr.  
 Garsen, Rev. B., LTh *Grag.*, BA PhL Lectr.  
 Parent, Rev. L. P., PhL *Pontif. Athen.*  
 Angelhaus, BA Lectr.  
 Peliquin, J.-M., BA PhL STL †Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Rector of Univ. Seminary: Rev. R. Norman-  
 din, PhD STL Students' Chaplain: Rev. L.  
 Ruby, BA STL Dir. of Athletics: R. Pelletier,  
 MA *Springfield*, BSc. Dir. of Univ. of Ottawa  
 Press: Rev. L. Lanctot, BA PhL STL LDC.  
 Dir. of Revue de l'Université d'Ottawa: Rev. G.

Carrière, STL *Grag.*, BA PhD Dir. of Catholic  
 Centre: Rev. J. Moncon, BA Archivist: Rev.  
 J. Gravel, BA. Dir. of Univ. Health Services:  
 J. J. Day, BA MD PhD *Tor*. Legal Adviser: G.  
 Addy, BA LLB *Tor* Denn of Students: Rev  
 J. Saint-Denis, BA BEd PhL STL Dir. of

Guidance & Placement L. Isabelle, BA MEd  
Dir of Public Relns & Development G W.  
Boss, BA. Dir. of Extension (evg, correspondence,  
summer sch) Rev Gérard Forcier, MA

Principal of High Sch (within the Univ.) Rev  
R. Cloutier, BA Principal of Teachers' Coll  
(within the Univ.) Rev. L.-P. Pigeon, BEd  
Tw., LPd Lemou, BA PhL STL

## CONSTITUENT COLLEGE

St PATRICK'S COLLEGE, Ottawa, Ont (tel.  
Ottawa CE 4-847) (R.C.) Estab'd 1933  
Residential accom available Co-educational  
Provides courses leading to BA, BSc, BCom,  
BScS, MA and MSW Although a constituent

coll of the univ., St Patrick's is autonomous in  
admn and financial matters. Rector—Rev J J  
Kelly, MA Tw., DU/Pmr Registrar—Rev  
J B. Zachary, MSc C U A

## AFFILIATED INSTITUTIONS

(All, except Major Seminary, for BA only, Major Seminary STB only The teaching staff of the  
Affiliated Institutions are not listed by name above)

BAUVEN COLLEGE, 200 Rideau St., Ottawa,  
Ont. (tel. Ottawa CE 5-7346) Founded 1925  
Women only. Directress—Rev Sr. Ste Made-  
leine

CLASSICAL COLLEGE, Cornwall, Ont (tel.  
Cornwall 5350) Founded 1949. Men only  
Superior—Rev E Charlebois

COLLEGE MARIE DE GRAVELBOURG, Gravel-  
bourg, Sask (tel. Gravelbourg 95) Founded  
1924 Men only. Rector—Rev E Dubreuil

MAJOR SEMINARY, 1245 Kilborn St., Ottawa,  
Ont. (tel. Ottawa RE 3-3640) Founded 1847  
Men only Courses for STB of the univ. Dir—  
Rt Rev. D Rollin

MINOR SEMINARY, Carleton Road, Ottawa, Ont

(tel. Ottawa SH 6-8191) Founded 1925 Men  
only Superior—Rev C A. Demers.

NORTH-DAME COLLEGE, Wexley, Sask. (tel.  
Wexley 24) Founded 1933 Co-educational  
Dir—Rev A Murray

SACRED HEART SCHOLASTICATE, Lebeuf, Sask  
(tel. Fort Qu'Appelle 23-r-47) Founded 1927  
Men only Dir—Rev H. Gagné

St JOHN'S COLLEGE, 8406 91st St., Edmonton,  
Alta (tel. Edmonton 53325) Founded 1928.  
Men only Dir—Rev A Lacerte

St THOMAS' COLLEGE, Battleford, Sask. (tel.  
North Battleford 2212, Battleford 23). Founded  
1939. Men only Dir—Rev. E Stang.

## GENERAL INFORMATION

In 1848 the Missionary Oblates of Mary Immaculate founded the 'College of Bytown' for the moral and intellectual educn of the people of the Ottawa valley. In 1849 it was incorporated and in 1861 became the 'College of Ottawa'. An act of the union govt in 1866 raised the coll. to the rank of a univ. and in 1889 it became a pontifical univ by decree of Pope Leo XIII. The univ had barely begun to develop when, in 1903, its bldgs were destroyed by fire. The revised civil charter was approved by the Ontario legislature in 1933. The pontifical charter was amended according to the requirements of the constitution *Deus Scientiarum Dominus* and was also given a new approval by Rome in 1934. During the past 30 yrs. the univ. has developed rapidly.

The purpose of the univ. is to give its students a truly Christian educn. A distinguishing mark of its teaching is the organization of parallel courses in English and French in most sections. In its teaching methods it tries to combine traditional values and modern techniques.

CONSTITUTION In all matters academic, supreme power and authority rests with the

senate, which is composed of the great chancellor, the rector, the deans and dirs of facs. and scho. and the members of the council of admn. The admn. powers are vested in the council of admn. composed of the rector, vice-rectors, sec., treasurer and 2 councillors, all of them belonging to the Oblates of Mary Immaculate. This body is advised by senate on academic matters and by the bd of regents (14 members chosen among prominent laymen) on financial matters.

INCOME (1960-61). Total income, \$4,846,682 (govt. grants, 40 per cent., fees, 30 per cent., endowment, 15 per cent., misc., 28.5 per cent.)

FACULTIES AND DEANS Arts, Rev R. Lavigne, canon law, Rev. A. Caron; civil law, Dr. P. Azzaz; common law, T. G. Feeney; med., Dr. J. J. Lussier; phas., Rev J. Croteau, *para & appl. sci.*, ; *sci., econ & pol. sci.*, Rev. J. M. Quirion, *theo.*, Rev R. Guindon.

SCHOOLS AND DIRECTORS. High sch., principal: Rev R. Cloutier, library, Rev A.-M. Morisset; teachers' coll., principal, Rev L.-P. Pigeon, nursing, St. Françoise-de-Choantal, psychol & educ., Rev R. Sheynell.

**INSTITUTES AND DIRECTORS.** *Matiology*, Rev J.-E. Champagne; *pastoral theol.*, Rev. L. P. Vézina; *phys. educn.*, Rev. M. Montpetit.

**UNIVERSITY FACULTY.** Campus at present covers area of 39 acres in Sandy Hill district of Ottawa and is to extend a mile along left bank of Rideau canal. There are 9 teaching bldgs., 6 temporary bldgs., 6 fine and sch. libraries, Univ. of Ottawa Press and certain residence accomm.

**GEOGRAPHICAL LOCATIONS.** Theol. philos. and canon law: 223 Main St., tel. CE 5-1441; arts: 165 Waller St., tel. CE 5-6751, loc. 221; pure and appl. sci.: 700 King Edward St., tel. CE 5-6751, loc. 265; med.: 275 Nicholas St., tel. CE 5-6751, loc. 283; law: 165 Waller St., tel. CE 5-6751, loc. 307; nursing sch.: 30 Stewart St., tel. CE 5-6751, loc. 238; Catholic centre: 1 Stewart St., tel. CE 5-6751, loc. 248.

**LIBRARIES.** 328,000 vols. The parliament library to which the students have access has 555,000 vols.

**LABORATORIES.** Anat., bacteriol., biochem., bot., chem., geol., langs., phys., physiol., psychol.

**MUSEUMS.** Victoria museum; access to the geol. survey dept. museum, the common observatory and Canadian fisheries museum are located in Ottawa.

**TEACHING HOSPITALS.** Ottawa General H. (centre for clin. teaching), Ottawa Civic H. (clin. teaching), St. Vincent's H. (phys. diagnosis), Royal Ottawa Sanatorium (TB), Rockcliffe Military H. (clin. teaching), St. Louis-de-Montfort H. (clin. teaching), T.R.I. Service H.

#### ADMISSION. See Appendix III

**FIRST DEGREE.** *Arts*.—Subjs. of gen. culture form background to all degree courses. No. of such subjs. to be taken varies from course to course but compulsory subjs. in langs. and philos. appear in each course. Against background of compulsory subjs. courses are arranged as follows. 4 yrs. from jr. matric. BA pass gen. (2 optional subjs. in each of last 3 yrs.), BA pass with majors (BA(Ed), BA(Geog), BA(Hist), BA(Hec), BA(Phil), BA(Ped)) (increasing emphasis on major subjs. as course progresses), BA with cert. in pre-med. studies, BCom, 3 yrs. from jr. matric. BA hon. (increasing emphasis on hon. subjs. as course progresses), available in Engl., Engl. & Latin, French, French & Latin, geog., hist., philos., psychol. *Canon law*.—1 yr. after 4 yrs. of theol.; BCL, Law (common law section)—3 yrs. after 3 yrs. of univ. study from jr. matric.; LL.B. *Med*.—6 yrs. from ar. matric. or 4 yrs. from BA pre-med. or BSc pre-med.; MD. *Nursing*.—4 yrs. from jr. matric.; BScN, Philos.—2 yrs. after 2 yrs. in arts fac. from jr. matric.; BPh. *Soc*.—pre-sci. yr. common to all sci. students. In 1st yr. students specializing in pure or appl. sci. or in nat. hist. In the last yrs. more emphasis is placed on subjs. of choice. 4 yrs. from jr. matric.

BSc gen., 5 yrs. from jr. matric.; BSc hon., available in biochem., biol., chem., geol., math., phys., phys. & math., BAsc in engin. (full course in chem. and electr., 2 yrs. offered in civil and mech.). *Soc., econ. & pol. sci.*.—4 yrs. from jr. matric.; BBS, BEcon, BPolSci (in internet telas or gen. pol. sci.), BA(BS), BA (Econ), BA(PolSci).

**HIGHER DEGREE.** *Arts*.—at least 1 yr. from BA: MA, available in Engl., lit., French lang. & lit., geog., hist., compar. hist. of religions, Latin lang. & lit., mod. lit., religion, slave studies; at least 2 yrs. from MA. PhD, in same subjs. as MA, at least 3 yrs. from MA. *D.Litt.*, available in Engl. lit., French lang. & lit., hist., Latin lang. & lit. *Canon law*.—1 yr. from BCL, LCL, 1 yr. from LCL DCL. *Law* (civil law section)—3 yrs. from BA. LLL.—2 yrs. from LLL. LLD. *Library sci.*.—1 yr. from bachelor's degree in another field; BLS, 1 yr. from BLS. *MLS.* *Med*.—4 yrs. from BSc hon. MSc, available in anat., histol. & embryol., immunol. & compar. pathol., pharmacol., physiol., 6 yrs. from BSc hon. PhD, available in same fields as MSc. *Nursing*.—1 yr. from BScN, MScNEd. *Philos.*.—1 yr. from BPh, LPh, MA(Ph); 1 yr. from LPh or MA(Ph). *PhD.* *Psychol.* *Sci. educn.*.—1 yr. from bachelor's degree. *BEd*; 1 yr. from bachelor's degree plus 2 previous yrs. teaching experience. *MA(Ed)*, *Med*, 2 yrs. from bachelor's degree. *MA(Ph)*; 2 yrs. from bachelor's degree plus 1 previous yr.'s practice; *MPs*; 1 or 2 yrs. from master's degree (depending on subjs. offered for PhD). *PhD*, available in educn., educn. psychol., counselling, psychol., clin. psychol., child clin. psychol. *Sci.*.—1 yr. from BSc or BAsc. MSc, available in biochem., biol., chem., engin. (civil, electr., nuclear), geol., math., phys.; 2 yrs. from MSc; *PhD*, available in same fields as MSc. *Soc., econ. & pol. sci.*.—1 yr. from bachelor's degree. *MA*; 1 yr. from master's degree. *PhD.* *Soc. welfare (sch. affs)*.—2 yrs. from bachelor's degree. *MSW*. *Theol.*.—2 yrs. from BA: BTh; 2 yrs. from BTh, LTh; 1 yr. from LTh. *DTh*, *DMin*.

**HONORARY DEGREE.** LLD, DSc, D.Litt., DBA, STD.

**DIPLOMAS.** Grad. studies (2 yrs.), sch. of nursing (3 yrs.), sch. of library sci. (1 yr.).

**CERTIFICATES.** Gregorian chant (5 summer sessions), library sci. (1 yr.), appl. sci. (3 yrs.), pol. sci. (1 yr.), nursing (public health) (1 yr.), nursing (nursing educn.) (1 yr.), phys. educn. (3 summer sessions).

**FEES.** (For tuition only). Theol., canon law, \$214 p.a. Philos., \$285 p.a. Civil law, \$405 p.a. Med.; pre-med., \$480; other vrs., \$599 p.a. Sch. of grad. studies, \$20 per semester hour. Fac. of arts: 1st yr., \$340; other yrs., \$415 p.a. Phys. educn., \$340 to \$465 p.a. Home econ.: 1st yr., \$340; other yrs., \$465. Engin. & pure sci.: 1st yr., \$340; pure sci. 1 and, 3rd, 4th and 5th yrs., \$490; engin. 2 and yrs., \$490; 3rd, 4th,

and 5th yrs., \$530. Pol. sci., \$340 to \$415. Sch. of nursing: degree course, \$275 to \$300 p.a. Summer courses in arts, \$60 per subj. Evg. courses in arts, \$30 to \$75 per subj. Correspondence courses, \$40 per subj. Grad courses, \$20 per credit.

**ACADEMIC YEAR.** Sept. to May. 2 terms of 15 wks. each.

**LANGUAGES OF INSTRUCTION.** Bilingual, French and English.

**EXTENSION DEPARTMENT.** Offers courses carrying academic credit towards BA, BCom degrees, in evg. courses during winter session, at annual summer sch. and at sp. outside centres (at present, Hawkesbury and Cornwall). There are 2 sections in the summer sch.: the grad division leading to masters' or doctors' degrees and the undergrad. leading to bachelors' degrees. In all cases there is a min. residence of 1 full yr. for doctors' degrees. The dept. of extension also offers correspondence courses leading to a pass BA. A minimum of the course must be taken in residence, either a full academic yr. or 3 summer sessions.

**SUMMER COURSES** in arts and sci., philos., psychol., theol., church music, phys. educ., grad. studies.

**CORRESPONDENCE COURSES** in arts only (see 'Extension Dept.', above).

**RESIDENCE (for men).** Accommod. for 275 (fees: \$190 p.a.), univ. seminary (240 Main St.), 140 (fees: \$300 p.a., tel.: CE 3-8493).

**MILITARY TRAINING.** Univ. contingents prepare students for commissions in royal Canadian army (reserve), royal Canadian navy (reserve) and royal Canadian air force (reserve).

A **STUDENT HEALTH SERVICE** is provided by the univ.

**DEPARTMENT OF PUBLIC RELATIONS AND PUBLICITY** is the point of contact with the univ. for the press and general public. Issues all univ. announcements and places its advertising. Publishes annually an *Experts Panel* placing univ. specialists at the disposal of the press for authoritative comment and articles. Dir.—G. W. Ross, BA.

**PUBLICATIONS.** *Revue de l'Univ. d'Ottawa* (quarterly, 33), *Calendars of the different facs, schs. and insts.*, *Publications d'été* (51 vols. already publ.), *Univ. of Ottawa Teachers' Coll. Yearbook*, *Mad Journal* (quarterly, \$0.50 per issue), *Inscape* (quarterly review of literature), *The Fulcrum* and *La Retenue* by students.

**UNIVERSITY OF OTTAWA PRESS**, founded in 1937, has publ. more than 100 vols. by staff members and grads. of the univ. A sp. section, named *Seriate Publications*, edits exclusively univ. works (see previous para.).

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	2616	2125
Women	670	2926
Total	3286	5251*

Distribution by Faculties, etc. *Arts*, 631; *canon law*, 8; *educn*, 306; *home econ*, 40; *law*, 163; *library sci.*, 20; *med.*, 262; *music*, 10; *nursing*, 259; *pastoral theol.*, 41; *philos.*, 193; *phys. educn*, 123; *psychol. & educn*, 130; *sci.*, 522; *sci. sci.*, 229; *soc. work*, 55; *theol.*, 204. Total, 3286.

Included in the figures above are—

Postgraduate students, 535

New admissions, 1395.

Students from other countries, 394. (Country from which largest number come: U.S.A., 179).

Not included in the figure above are—

Affiliations, 609

**DEGREES AWARDED (1961)** *Arts*: BA pass, 283; BA hon., 3; BA(PhysEd), 9; BCom, 74; BHE, 9; MA, 22; PhD, 1. *Canon law*: JCB, 7; JCL, 1. *Law*: LLB, 21; LLL, 18. *Library sci.*: BLS, 24. *Med*: MD, 52; MSc, 1; PhD; *Nursing*: BScN, 16. *Philos.*: PhD, 41; Phil, 15; PhM, 2; PhD, 2. *Psychol. & educn*: BEd, 33; MA, 26; PhD, 15. *Sci*: BSc pass, 10; BSc hon., 10; BASc, 10; MSc, 10; PhD, 8. *Soc. sci.*: BA, 28; MA, 9; PhD, 3. *Soc. work*: MSW, 14. *Theol*: STB, 41; STL, 31; STD, 1.

**DIPLOMAS AWARDED (1961)** Grad. nurses, 37; grad. dipl. in civil law, 3; grad. dipl. in arts, 3.

**CERTIFICATES AWARDED (1961)** Nursing educn., 41; pub. health nursing, 35; library sci., 3.

\* Correspondence, 1632; evg. courses, 1005; summer courses, 2229; grad. courses, 385.

# QUEEN'S UNIVERSITY AT KINGSTON\*

Founded 1841

Postal Address: Kingston, Ontario, Canada

Cables and Telegrams: Queen's University, Kingston, Ontario

Telephone: Kingston, Ont., Area 613, 546-1731

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RECTOR—L. W. BROCKINGTON, CMG, QC, BA *Wales*, DCL *Bishop's*, Hon. LL.D. *Sy.*, *Alta.*, *W. Ont.* & *Que.*

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VICE-PRINCIPAL (ADMINISTRATION)—J. J. DEUTSCH, Hon. LL.D. *St. M.*, BCom

DEANS—APPLIED SCIENCE—H. G. COHEN, OBE, MS *Mech.*, BSc (Mech. Engin.), ARS AND SCIENCE—A. R. C. DUNCAN, MA *Edin.* (Philos.); LAW—W. R. LUDSTMAN, BA LLB *Sask.*, BCL *Oxon.*, MEDICINE—G. H. EFTINGEN, MBE, Hon. DSc *W. Ont.*, BA MD CM, FRSCan (Physiol.); WOMEN—MRS. BEATRICE E. BRYCE, BA *Tor.*

REGISTERAR—JEAN I. ROYCE, BA

LIBRARIAN—H. P. GUNDEY, MA *Tor.*

SECRETARY—M. C. TILLOTSON, MBE, MBA *Harv.*, BCom

## TEACHING STAFF

(†=Part-Time)

<b>Anatomy, see Medicine</b>		Stech, H. F., PhD <i>Winnipeg</i>	Asst. Prof.
		Kaast, J. D., MSc <i>Syd.</i> , MA PhD <i>Harv.</i>	
<b>Art</b>		Riegel, J. A., AM PhD <i>Calif.</i>	Asst. Prof.
Bieler, A.	Prof.	26 Tutor.	Asst. Prof.
Allen, R.	Asst. Prof.		
† Tutor			
<b>Bacteriology, see Medicine</b>		<b>Business, School of</b>	
		Macpherson, L. G., BA <i>McM.</i> , FCA	
			Prof., Dir. of Sch.
<b>Biochemistry, see Medicine</b>		McDougall, J. L., MA <i>Tor.</i>	Prof.
		Leonard, W. G., FCA	Prof.
		Smyth, J. E., MCom <i>Tor.</i> , FCA	Prof.
		Judge, F. W., BCom <i>Mont.</i> , MBA <i>Illno.</i>	Prof.
<b>Biology</b>		Hard, R. J., BCom <i>Almont.</i> , MBA <i>Chic.</i>	
... John Roberts & John Roberts Allan Prof.			Assoc. Prof.
Krotkov, G., BSA <i>Prague</i> , MA PhD <i>Tor.</i>		Bairrett, F. D., BSc <i>McG.</i> , PhD <i>M.I.T.</i>	Assoc. Prof.
FRSCan			
McLaughlin Res. Prof.		Monaghan, D. D., BS <i>Vermont</i>	
West, A. S., BSc <i>Mass. State</i> , PhD <i>Yale</i>	Prof.	MBA <i>Almont.</i> (Ohsa), PhD <i>Ohsa</i>	Assoc. Prof.
Good, H. M., BA PhD <i>Tor.</i>	Assoc. Prof.	Benson, E. J., BCom	Asst. Prof.
Nelson, C. D., MA PhD	Assoc. Prof.	Galvin, B. J. B.	Asst. Prof.
Dunvey, Miss H. Arliss, MS PhD <i>Mech.</i>		Dixon, B., BA <i>Mont.</i> , MCom <i>Tor.</i>	
BA	Asst. Prof.	PhD <i>Mech.</i>	Asst. Prof.
Beschel, R. E., PhD <i>Jaurbach</i>	Asst. Prof.	Shaw, G. C., SM <i>M.I.T.</i> , BA	Asst. Prof.
Brown, S. R., PhD <i>Yale</i> , MA	Asst. Prof.		

\* Member of the Association of Universities of the British Commonwealth

Ciandall, R. H., BCom  
6 Tutors

Sp. Lectr.

Helwig, D. G., BA *Tor*  
Spettigue, D., MA *W Ont*  
McCallum, Mary, MA Hon. LLD  
34 Tutors

Lectr  
Lectr  
Insti

# Chemistry

Jones, J. K. N., PhD DSc *Burm.*, FRS,  
FRSCan, FRIC Chown Sci Res Prof  
McIntosh, R. L., BA MSc *Dal.*, PhD *McG* Prof.  
Munro, L. A., MA *Dal.*, PhD *McG*,  
FRSCan, FCIC Prof  
Smith, W. M., BSc *New Br.*, PhD *McG* &  
Camb., FCIC Prof  
Moir, R. Y., PhD *McG*, MA Assoc Prof  
Russell, K. E., MA PhD *Camb.* Assoc Prof  
Heyding, R. D., BE MSc *Sask.*,  
PhD *McG* Assoc Prof  
Wolfe, S., MA *Tor.*, PhD *Ont* Assoc Prof  
Wheeler, R. C., PhD *Camb.*, MSc Asst Prof  
Beck, W. G., PhD *Camb.*, MSc Asst Prof  
Stearns, R. A., BSc *McG.*, MSc *W Ont.*,  
PhD *Camb.* Asst Prof  
Thompson, J. L., MA Lectr  
Thompson, J., PhD *Edin* Lectr  
Torrable, E. G., BSc *Waler*, PhD Lectr  
43 Demos & Tutors

# French

Evans, W. H., BA *Wales*, DUP *Paris* Prof.  
Shortliffe, G., MA *Alta*, PhD *Corn.* Prof.  
Beasette, G., MA *DésL. Mont.* Assoc Prof  
Goben, P. B., LesL. *Paris* Asst Prof  
Lundie, M., MA *Tor* Lectr  
Tonge, F. V., BA *Rhodes*, CEF *LesL. Camb.* Lectr  
Hurst, Miss Margaret, BA *McG*,  
MA *Alta* Insti.  
Leroux, Miss N., MA *Montana* Insti.  
2 Assts., 7 Tutors

# Geography

Ruggles, R. L., BA *Tor.*, MA *Syr.*,  
PhD *Lond.* Assoc Prof.  
Thomson, R. S., MA *Colorado*, PhD *Calif.* Assoc Prof.  
Innes, D. Q., BA *Tor.*, PhD *Calif.* Asst Prof.  
Loken, O. H., PhD *McG* Asst Prof.  
McGlash, G., BA *Camb.* Lectr  
Taylor, A. M., MA *S. Calif.*, DPhil *Oxou*  
Hon. Lectr  
4 Tutors

# Geological Sciences

Hawley, J. E., PhD *Wis.*, MA, FRSCan,  
FGSA Prof  
Ambrose, J. W., AB *Stan.*, PhD *Yale*,  
FRSCan, FGSA Prof.  
Jolliffe, A. W., PhD *Prim.*, MA, FRSCan,  
FGSA Prof.  
Barr, L. G., MA PhD *Tor.*, FRSCan,  
FGSA Prof.  
Usher, J. L., BA *Sask.*, MSc PhD *McG* Assoc Prof  
Fitzpatrick, M. M., MA *Tor.*, PhD *Harv.* Asst Prof.  
German, W. A., MSc PhD *McG* Asst Prof.  
Wynne-Edwards, H. R., BSc *Aberd.*,  
MA PhD Asst Prof  
24 Tutors, 3 Fellows

# German

Echner, H., BA PhD *Lond.* Assoc Prof  
Straub, J. P., DPhil *Freib.* Lectr.  
3 Tutors

# Hebrew

Parker, C. H., BA BD *United Coll* Lectr

# History

Harrison, W. E. C., OBE, MA *Lond.* Prof  
Keppel-Jones, A. M., MA *Oxou.*,  
PhD *Cape T.* Prof  
Smith, Rev. W. E. L., MC, MA DD *Tor*  
PhD *Edin* Assoc Prof.  
Gibson, F. W., MA Assoc Prof.

# Classics

Smithurst, S. E., MA *Camb.* Prof  
Edwards, M. W., MA *Brist* Assoc Prof  
Robinson, T. H., MA Lectr  
Reesol, Margaret, MA *Tor*,  
PhD *Bryn Mawr* Lectr  
2 Tutors

# Drama

Angus, W., AM PhD *Corn.* Prof.  
1 Asst., 1 Tutor

Economics, see Pol. and Econ. Sci.

Engineering, see below

# English

Whalley, A. G. C., CD, MA *Oxou.* &  
*Bishop's*, PhD *Lond.*, FRSL, FRSCan Prof  
LePan, D. V., BA *Tor.*, MA *Oxou*  
McLaughlin Res Prof  
Matthews, J. P., PhD *Tor.*, MA  
DipEd *Melb.*, LLB *Lond* Prof  
Walker, E. A., BA *Tor.*, MA *Camb.* Assoc Prof  
Stedmon, J., MA *Sask.*, PhD *Aberd.* Assoc Prof.  
Dean, C., BA PhD *Leeds* Asst Prof.  
Boxter, J. S., BA *Br.Col.* Asst Prof.  
Robertson, D., BA *Tor.*, MA *Johns H.* Asst Prof.  
Loughood, W. C., MA Assoc Prof.  
Newell, L., MA *Duke*, BLitt *Oxou.*, BA  
Asst Prof.  
Ferguson, W. C., MA BEd *Mont.*,  
PhD *Burm* Asst Prof.  
Sampson, G., MA *Bishop's* Lectr.  
Crawley, D. F., BA *Mont.*, MA *Oxou* Lectr.  
Barnes, W. J., BA *Tor*, MA *Chic* Lectr.

Wise, S. F., BA BLS *Tor.*, MA  
 Pierce, R. A., MA PhD *Calif.*  
 Leath, J. A., MA *Dalh.*, PhD *Tor.*  
 Samkin, F., BA *Wayne*, LLB *Columbia*,  
 MA *American*  
 18 Tutors

Asst Prof  
 Asst Prof  
 Lectr  
 Lectr  
 Lectr

### Italian, see Spanish and Italian

### Law

Lederman, W. R., BA LLB *Sask.*,  
 BCL *Oxon* Prof  
 Ryan, H. R. S., QC, BA *Tor.* Prof.  
 Robertson, D. A., BA LLB *Dal.*,  
 LL.M. *Hart* Assoc. Prof  
 Newman, A. W., LLB *Birm.*, BCL *Oxon*,  
 LL.M. *SJD Mich.* Assoc. Prof.  
 Lanford, H. J., BA LLB *Alta.*, BCL *Oxon*.  
 Asst. Prof  
 Goss, R. F., BA *McG.*, LLB *Br. Col.*,  
 DPhil *Oxon* Asst. Prof  
 MacIntyre, J. M., BCom LLB *Br. Col.*,  
 LL.M. *Hart* Asst. Prof.  
 Fraser, F. M., BA LLB *Dal.* Asst. Prof  
 Slater, T. D., QC, BA [Sp. Lectr.  
 Wilson, T. R., QC [Sp. Lectr.  
 Willoughby, L. S., BA *W. Ont.* [Sp. Lectr.

### Mathematics

Coleman, A. J., BA PhD *Tor.*, MA *Prin.*  
 N. F. Dupuis Prof.  
 Halperin, I., MA *Tor.*, PhD *Prin.*,  
 FRSCan Prof  
 Douglas, A. Vibert, MBE, MSc PhD  
 Hon. LL.D. *McG.* (Astron.) Prof  
 Edgett, G. L., MA *Mt. All.*, PhD *Ill.* Prof.  
 Ellis, H. W., MSc *Acad.*, MA PhD *Tor.* Prof.  
 Hogarth, J. E., BSc MA *Tor.*, PhD *Lond.* Prof  
 Kemp, R. D., BA *McM.*, PhD *M.I.T.*  
 Assoc. Prof.  
 Ohtsuka, P. E., Lac *Bucharest* Assoc. Prof.  
 Rubenbaum, P., PhD *São Paulo* Assoc. Prof.  
 Wasson, M. T., MA *Bos.*, PhD *Ill.* Asst. Prof.  
 Bush, G. C., BA *McM.*, SM *M.I.T.*,  
 PhD Asst. Prof.  
 Kirby, B. J., MA *Tor.* Asst. Prof.  
 Emory, C. L., PhD *Sheff.*, MSc Asst. Prof.  
 Crawford, D. H., BSc MA *EdB. Glas.* Asst. Prof.  
 Franzen, U., PhD *Konigs* Asst. Prof.  
 Beuwer, J. Z., MSc *Stell.* Lectr.  
 Pearce, C. D., MA *Br. Col.*, MSc *McG.* Lectr.  
 Arden, W. A., BA *Tor.* Lectr.  
 Atkinson, H. R., BA *W. Ont.*, MA *Assum.* Instr.  
 Clench, R. J., BA MSc Instr.  
 Krotkov, Mrs. Valentina N., BA *Moscow*  
 MA *Tor.* +Instr  
 Robertson, H. L., MA +Instr  
 Rutherford, J. R., BEng *McG.* +Instr.  
 Snow, D. O., PhD +Instr  
 29 Tutors

### Medicine, see below

### Music

George, G., MusDoe *Tor.* Assoc. Prof.  
 1 Asst

### Nursing

Weir, Jenny M., BSc *Alta.*, AM *Col.*  
 (Pub. Health) Assoc. Prof., Dir. of Sch.  
 Moulton, Evelyn, AM *Col.*, BNSc Asst. Prof.  
 Wilson, G. E., MD *Tor.*  
 (Mental Hyg.) +Sp. Lectr.

### Philosophy

Duncan, A. R. C., MA *Edin.*  
 John & Ella G. Chantler Prof.  
 Estall, H. M., MA *McG.*, PhD *Corn* Prof.  
 Winters, R. L., BA *Tor.*, MA *Oxon* Asst. Prof.  
 Carter, W. B., MA PhD *Tor.* Lectr.  
 Fell, A. P., AM *Col.*, BPhil *Str. And* Lectr.  
 Robinson, T. H., MA Lectr.  
 MacLeod, A. M., MA *Glas.*  
 MacLachlan, D. L. C., MA *Glas.*,  
 PhD *Yale* Lectr.  
 Wheatley, J., BA *McG.*, MA *Br. Col.*  
 1 Tutor Lectr.

### Physical and Health Education

Bartlett, F. L., BA *Tor.* Prof., Dir. of Sch.  
 Edwards, J. F., AM(PE) *Mich.*, BA Assoc. Prof.  
 Tindall, F., AB *Syr.* Asst. Prof.  
 Ross, S. Marion, AM *Cal.*, BA Asst. Prof.  
 Lenz, A. L., BA *BPHE* Asst. Prof.  
 Leggett, Dorothy, BS *McG.*, MSc *Wis.* Lectr.  
 Turnbull, Anna C., BSc(PE) *McG.* Lectr.  
 Galasso, P. J., BA *BPHE* Instr.  
 Carnegie, R. D., BA Instr.  
 2 Assts.

### Physics

Sargent, B. W., MBE, PhD *Camb.*, MA,  
 FRSCan McLaughlin Res. Prof.  
 Watson, E. E., MSc *McG.*, PhD *Camb.* Prof.  
 Cave, H. M., PhD *Camb.*, MA Prof.  
 Roberts, D. T., BSc *Brist.*, PhD *Birm.*  
 Assoc. Prof.  
 Whyte, G. N., AM PhD *Prin.*, MSc Assoc. Prof.  
 Love, H. M., BSc PhD *Belf.* Assoc. Prof.  
 Harrower, G. A., BSc *W. Ont.*, MSc  
 PhD *McG.* Assoc. Prof.  
 Henriksen, A., BA *Br. Col.*, MSc  
 PhD *McG.* Assoc. Prof.  
 Allen, J. R., MA Asst. Prof.  
 Taylor, H. W., MSc PhD *Manit.* Asst. Prof.  
 Armstrong, H. L., MSc Asst. Prof.  
 Puhach, P. A., MSc *Alta.*, PhD *McG.* Asst. Prof.  
 Conkay, W. R., BSc *Tor.*, MSc *McG.*  
 PhD *Sask.* Asst. Prof.  
 McLay, D. B., MSc *McM.*, PhD *Br. Col.*  
 Assoc. Prof.  
 Sherman, N. K., MSc Lectr.  
 38 Demos. & Tutors

### Physiology, see Medicine, below

**Political and Economic Science**

Curtis, C. A., BA <i>Tor.</i> , PhD <i>Chc.</i> , FRSCan	
Knov, F. A., BA, FRSCan	Prof.
Corry, J. A., Hon. LLD <i>Sask.</i> , BCL <i>Oxon.</i> , FRSCan	Hardy Prof.
Crawford, K. G., MA <i>W.Ont.</i>	
Hodgetts, J. E., MA <i>Tor.</i> , PhD <i>Chc.</i>	
Deutsch, J. J., LLD <i>St M.</i> , BCom	Prof.
Urquhart, M. C., BA <i>Alta.</i>	Prof.
Skosch, L. A., BA <i>McM.</i> , MA <i>Tor.</i> , PhD <i>Calif.</i>	Prof.
Brown, T. M., BA <i>W.Ont.</i> , MA <i>Tor.</i> , PhD <i>ANU</i>	Prof.
Curtis, C. H., MA	Assoc. Prof.
Slater, D. W., BCom <i>Mont.</i> , MA <i>Chc.</i> , PhD <i>Stan.</i> , BA	Assoc. Prof.
Wood, W. D., BA <i>McM.</i> , AM <i>PhD Prin.</i> , MA	Assoc. Prof.
Meisel, J., MA <i>Tor.</i> , PhD <i>Leinf.</i>	Assoc. Prof.
Thornburn, H. G., BA <i>Tor.</i> , AM	
Young, F. J. L., MA <i>St And.</i> & <i>Que.</i>	Asst. Prof.
Smith, D. C., BA <i>McM.</i> , MA <i>Oxon.</i> , PhD <i>Harv.</i>	Asst. Prof.
Seymour, K. B., MA <i>Mad.</i> , PhD <i>McG.</i>	
Chant, J. F., BA <i>Br Col.</i>	Asst. Prof.
Fyfe, S., PhD <i>Mont.</i> , MA	Asst. Prof.
Forst, G. R., BA	Lectr.
Gunn, J. A. W., BA	Lectr.
Allan, J. R., PhD <i>Prin.</i> , BA <i>McM.</i>	Lectr.
22 Tutors	

**Psychology**

Blackburn, J. M., BSc <i>Leind.</i> , PhD <i>Canb.</i>	Prof.
James, P. H. R., BA <i>Canb.</i> , PhD <i>Leind.</i>	
Payne, R. W., BA <i>Alta.</i> , PhD <i>Leind.</i>	Assoc. Prof.
Ingila, J., MA <i>Edin.</i> , PhD <i>Leind.</i>	Assoc. Prof.
Leind, Isabel M., MA <i>BEd Edin.</i> , FRPSA	Asst. Prof.
Dodwell, P. C., MA <i>DPhil Oxon.</i>	Asst. Prof.
Campbell, D., MA <i>Oxon.</i> , PhD <i>Leind.</i>	Asst. Prof.
Rabedeau, R. G., BS <i>Wis.</i> , MS <i>PhD Yale</i>	Lectr.
Butler, V. J., MD <i>Tor.</i>	Lectr.
19 Tutors	

**Religion**

Andrews, Rev. E., BA <i>Dal.</i> , MA <i>PhD Dreu.</i> , BD <i>Pure Hill</i> , Hon. D.Litt <i>Mt. All.</i>	Prof.
Mathers, D. M., MA <i>BD St. And.</i> , PhD <i>Cal.</i>	
	Assoc. Prof.

**Russian**

Coleman, D. J., BA <i>Canb.</i>	Lectr.
Krotkov, Mrs. Valentina N., BA <i>Moscow</i> , MA <i>Tor.</i>	†Instr.

**Spanish and Italian**

Hilborn, H. W., MA <i>PhD Tor.</i>	Prof.
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Fox, A. M., MA <i>Tor.</i>	Assoc. Prof.
McDonald, J. K., BA <i>Br Col.</i> , MA <i>Oregon</i>	Asst. Prof.
Corvalan, O. E.	(Spanish) Lectr.
Johnson, Mrs. Loretta, BA <i>Tor.</i>	Instr.
3 Tutors	

**ENGINEERING**

**Chemical Engineering**

Plewes, A. C., PhD <i>McG.</i> , MSc, FCIC	Prof.
Clark, R. H., BSc(Eng) <i>PhD Leind.</i>	Assoc. Prof.
Code, R. K., BSc <i>Ill.</i>	Asst. Prof.
4 Demos	

**Civil Engineering**

Lash, S. D., DIC, MSc <i>Leind.</i> , PhD <i>Bern.</i>	Prof.
Brooks, J. W., MAsc <i>Tor.</i> , BSc	Prof.
Kennedy, R. J., MC, MS <i>Iowa</i> , BSc	Prof.
Dauphin, E. L., MS <i>Ill.</i> , BSc	Assoc. Prof.
Edwarda, H. M., MSCE <i>Pachet</i> , BSc	

Brehnes, A., BSc <i>PhD Aberd.</i>	Assoc. Prof.
Lazier, S. S., MAsc <i>Tor.</i>	Asst. Prof.
Townsend, D. L., DIC, MEng <i>McG.</i>	Asst. Prof.
Lee, J. A. N., BSc(Eng) <i>PhD Notr.</i>	Asst. Prof.
Gust, W. G., BASc <i>Tor.</i>	Asst. Prof.
Raymond, G. P., MSc <i>Prin.</i>	Asst. Prof.
MacLachlan, F. A., BSc	Lectr.
Holmes, C. D., BSc <i>Manut.</i>	Lectr.
Lee, J. D., MS <i>Iowa</i>	†Lectr.
16 Demos	

**Drafting**

Stinson, W. G., BSc	Assoc. Prof.
Pidgeon, C. W., BSc	Lectr.
Moaley, W. H., BSc <i>Bern.</i>	Lectr.
Stanley, J. L., BEng <i>McG.</i>	Lectr.
Cliff, G. H., BSc	†Sp. Instr.
Dougherty, J. W., BSc	†Sp. Instr.
Rogers, H. D., BSc	†Sp. Instr.
1 Demo.	

**Electrical Engineering**

Stewart, H. H., MS <i>Mich.</i> , BSc	Prof.
Pollock, H. S., MSc	Prof.
Campbell, C. H. R., SM <i>M.I.T.</i> , BSc	Assoc. Prof.
Chisholm, R. M., MAsc <i>PhD Tor.</i> , BSc	Asst. Prof.
Bennett, J. A., MSc	Lectr.
12 Demos	

**Mechanical Engineering**

Conn, H. G., OBE, MS <i>Mich.</i> , BSc	Prof.
Campbell, J. S., MSc	Prof.
Gilbert, W. D., SM <i>M.I.T.</i> , BSc	Prof.
Rose, W. B., BSc <i>Sir G. Wms.</i> , MEng <i>McG.</i> , DSc <i>App Mont.</i>	Assoc. Prof.
Kong, P. C., CD, BSc	Assoc. Prof.
Cornell, E. R., PhD <i>Leind.</i> , BSc	Asst. Prof.
18 Demos	



**Metallurgy**

Carsen, O. A., AM PhD Col, BSc	Prof.
Hames, F. A., BSc Montana, PhD Missouri, MSc	Prof.
Atkinson, J. T. N., MSc McG., PhD Tor.	Assoc. Prof.
Light, D. E., MSc	Asst. Prof.
Chitt, G. H., BSc	†Sp. Instr.

**Mining Engineering**

Corlett, A. V., BSc Algebra Ore Properties	Prof.
Thompson, R. W., BSc	Asst. Prof.

**MEDICINE**

(for subjects of the first year—Chem., etc., see above)

**Anæsthetics**

Vandewater, S. L., MD Tor., FRCPCan	Assoc. Prof.
Campbell, W. A., MD CM	†Asst. Prof.
Mahood, J. H. S., BA MD CM	†Lectr.
Edwards, K. F., MD Tor.	†Clin. Asst.
Nikus, V. A., MD Kansas	†Clin. Asst.
Russell, E. S., BA Sask., MD W. Ont.	†Clin. Asst.
Little, M. H., MD Tor.	†Clin. Asst.
Horne, G. R., MD CM	†Clin. Asst.

**Anatomy**

Bassington, J. V., MD Tor.	Prof.
Kropp, B. N., AM PhD Harv.	Prof.
Leeson, C. R., MA MD BChir Camb.	Assoc. Prof.
Laurence, R. D., MB ChB Abert.	Asst. Prof.
Sandborn, E., MD Mount.	Lectr.
Travill, A., MB BS Lond.	Lectr.
Rohrbaugh, M. T. E., MD Caro., PhD Essay	Sp. Lectr.
Jones, W. A., OBE, VD, CD, MD W. Ont., FRCPCan, FFR, FACP	†Sp. Lectr.
6 Fellows, 1 Tutor	

**Bacteriology**

Orr, J. H., MD CM, FRCPCan, FRSCan	Prof.
Hinton, N. A., DipBact Lond., MD CM MSc(Med)	Assoc. Prof.
Milazzo, F. H., BS W. Virginia Wesleyan, MS PhD Syr.	Asst. Prof.

**Biochemistry**

Beveridge, J. M. R., BSc Acad., PhD Tw., MD W. Ont., FRSCan	Casual Prof.
Hurst, R. O., BA PhD Tor.	Assoc. Prof.
Rattray, J. B. M., BSc PhD St. And.	Asst. Prof.
Kukus, A., MS Jams, PhD	Asst. Prof.
Haupt, H. L., MD Heidel., MSc(Med)	Lectr.
3 Demos.	

**Embryology and Histology**

Klopp, B. N., AM PhD Harv.	Prof.
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Gynaecology, see Obstet. and Gynecol.

**Medical Jurisprudence**

Tweedell, J. T., MD CM, FACP	†Lectr.
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**Medicine and Clinical Medicine**

Connell, W. F., MD CM, FRCPCan, FACP	Prof.
Brown, G. M., DPhil Oxon., MD CM, FRCPCan, FACP	Prof.
White, D. N., MA MD Camb., FRCPCan, FACP	(Neurol.) Prof.
Kelly, H. G., MD CM, FRCPCan, FACP	Assoc. Prof.
Wilson, D. L., MA MD CM, FRCPCan	Assoc. Prof.
Milliken, J. A., MD CM, FRCPCan	Assoc. Prof.
Valberg, L. S., MD CM	†Asst. Prof.
Hopkins, B. H., MB Tor.	†Asst. Prof.
Young, B., MD CM	Asst. Prof.
Fay, J. E., MB BS Lond., FRCPCan	†Lectr.
Robinson, S., MD CM	†Lectr.
Tweedell, J. T., MD CM, FACP	†Lectr.
Dunby, C. W. E., MD CM, FRCPCan	†Lectr.
McCluckton, G., MD CM, FRPSPGlas	†Lectr.
Bird, H. G., MB Tor., FRCPCan	†Lectr.
Gibson, J. E., BA MD CM	†Lectr.
Mayer, G. A., MD Bud., MSc(Med)	†Lectr.
Greenridge, H. W., MD CM	†Lectr.
Koval, A., MD W. Ont., FRCPCan	†Lectr.
Palmer, J. O., MD CM MSc(Med), FRCPCan	Lectr.
Rodde, J. C., MD PhD Tw., FRCPCan	Lectr.
Dingwall, R. W., MD CM MSc(Med)	†Clin. Asst.
Crenk, L. B., MD CM, FRCPCan	†Clin. Asst.
Loynes, J. S., MD CM MSc(Med)	†Clin. Asst.
Jacobs, H. E., MD Freib.	†Clin. Asst.
Page, J. O., MD CM MSc(Med)	†Clin. Asst.
Naismith, J. T., MB ChB Glas.	†Clin. Asst.
Funk, N. R. T., BSc St. P. X., MD CM McG.	†Clin. Asst.
Jaffey, B. D., MD Tor.	†Clin. Asst.
Jantz, J., BA MD Tor.	†Clin. Asst.
1 Fellow	

**Obstetrics and Gynaecology**

Robertson, E. M., MB ChB Edin., FRCOG, FRCSed, FRSCan	Prof.
Mykita, G., BA MD CM, FACS	†Assoc. Prof.
McLeod, P. A., CD, BA MD CM, FRCOG, FRSCan	†Assoc. Prof.
Merritt, R. L., MD CM, FRSCan	Asst. Prof.
Glew, L., R., MD CM, FRSCan	Lectr.
O'Connor, L. N., MD CM	Lectr.
O'Connor, F. J., Jr., MD CM	Clin. Asst.

**Ophthalmology**

Rosen, D. A., BSc MD CM McG., FRSCan	Prof.
McBroom, J. G., MD CM	†Asst. Prof.
de Margerie, J., BA MD Lond., DPhil Oxon.	†Asst. Prof.
MacPherson, G. B., BA MD CM	†Lectr.
Bernack, J. A., MD Tor.	†Clin. Asst.



Students' Memorial Union - J. E. Wright, MBE  
 Dir. of Pub. Relations - D. S. Swann, BJ Car  
 Chief Examination Proctor - R. J. Clench, BA  
 MSc. Med. Officer - H. M. Campbell, MD CM

Univ. Nurse: Mrs. Florence Paul, Cunstn.  
 Agnes Etherington Art Centre - A. Belfor, Dir.  
 of Radio - Margaret Angus, BA *Montana*.

## AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE, Kingston, Ontario (tel. - Area 613, 546-1731). Incorporated in 1913. Religious denomination - United Church of Canada. Provides courses leading to bachelor

in theol. and BD of the univ. Principal & Prof. of N.T. Lit. & Conciliar - Rev. E. Andrews, BA, Dof, MA, PhD *Dives*, BD *Pace Hall*, Hon. DLitt *Mc All* 3 other Profs, 3 Lectrs

## GENERAL INFORMATION

Founded in 1841 by royal charter issued by Queen Victoria, the purpose of Queen's Coll. at Kingston was, under the sponsorship of the Presbyterian Church of Canada in connexion with the Church of Scotland, to provide, within the country, trg. for the ministry and educat. facilities for the youth of a growing economy in a vast area without such educat. opportunities. When the 1st session began Queen's was the only active degree-granting coll. between the maritime provinces and the Pacific. It was modelled on the Univ. of Edinburgh, and Scottish academic influences have helped to mould its character.

As the coll. developed, its constitution was broadened by successive acts of parliament and the slender denominational requirements of 1841 were gradually eliminated until in 1913 an act was passed by the dominion parliament removing all trace of denominational control. What had been the fac. of theol. became the indep. Queen's Theol. Coll. (see above) and the original Queen's Coll. became Queen's Univ. at Kingston, a national institution privately endowed and privately controlled.

In 1854 the medical fac. was establ.; it was reorganized in 1866 as the Royal Coll. of Physicians and Surgeons in affiliation with the univ., but in 1891 the original status was resumed. Opened in 1861, the fac. of law closed in 1864 and, after a further 3 yrs. of existence, again in 1883; as the result of a change in the regns. of the Law Soc. of Upper Canada and the regn. of Osgoode Hall, the fac. was restored in 1957. A sch. of mining was founded in 1893 as a sep. instn. under an Ontario charter, amalgamated with the univ. in 1916 and now constitutes the fac. of appl. sci. The sch. of com. & admin. (now the sch. of bus.) was establ. in 1919, the sch. of nursing in 1942 and the sch. of phys. & health educn. in 1947.

Kingston, situated at meeting point of Lake Ontario and St. Lawrence River, is one of Canada's oldest cities.

CONSTITUTION. The admin. of the univ. is vested in the bd. of trustees, the univ. council, the senate and the fac. bds. The bd. of trustees is composed of the chancellor, principal and rector, representatives of the council, theol. coll., the grads. and benefactors, and 12 members selected

by the bd. Its functions are to manage the finances and property, to procure legislation, to appoint instrs. and other officers on the advice of the principal, and to attend to such external matters as do not relate directly to instrn. The univ. council consists of the chancellor, the trustees, the senate and grads. elected from their own membership. The council discusses all questions relating to the univ. and makes representation of its views to the senate or bd. of trustees. The senate is made up of the principal, vice-principal, principal of the theol. coll., deans of facs., 3 profs. from each of the facs. of arts & sci., appl. sci. and med., 1 prof. from the fac. of law, and 1 prof. from the fac. of Queen's Theol. Coll. The senate determines all academic matters which concern the univ. as a whole, and enforces the statutes, rules and ordinances of the univ. The fac. bds., which have the power to admonish their own affairs under such regns. as the bd. of trustees may prescribe, are each made up of the dean, profs., assoc. profs., asst. profs., lectrs. (in arts & sci. after 1 yr.'s experience), and, in the fac. of arts & sci., the univ. librarian.

INCOME (1960-61). Total income, \$5,166,264 (govt. grants, 43.8 per cent., fees, 35 per cent., endowment, 12.7 per cent., misc., 8.5 per cent.)

FACULTIES AND DEANS. See p. 312.

UNIVERSITY CAMPUS. Queen's Univ. has a campus of 70 acres reaching at some points to the shores of Lake Ontario. Over the past decade the univ. has engaged in an extensive bldg. programme - 40 per cent. of the permanent bldgs. now standing have been opened during that period. One of the significant parts of this programme is the increase in residence accomm. for both men and women. These acc. also included facilities for work in the pure and appl. sci. and in library services.

LIBRARY (the Douglas library). 400,000 vols. Sp. collections: (1) Canadians—Lorne Pease collection (incl. rare items, MSS., 1st edns.), R. S. McLaughlin historical collection, Shout-Haydon print & portrait collection; (2) John Buchan memorial collection—library and private papers of John Buchan, Lord Tweedsmuir; (3) McNicol collection—books and documents on "telecom-

musication and radio. Music room contains musical scores, 4000 gramophone records. Agnes Etherington art centre arranges art exhibitions & discussions, and sp. classes in art.

**RADIO** Founded in 1922, CFRC (AM & FM) operated by student radio club under supervision of dir. of radio and a prof. of electr. engin., broadcasts a variety of music, drama & discussion during session.

**MUSEUMS** Herbarium (35,000 specimens), geol., mineral, ethnol. (rich N. American stone-age collection).

**LABORATORIES** Biol., chem., geol., phys., engin. (mining, mech., metall., electr., civil). Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for geol. study.

**COMPUTING CENTRE** for advancement of res.

**HOSPITALS** available for clinics, 2 general, 1 for insane.

**ADMISSION.** See Appendix III.

**FIRST DEGREES** 3 yrs. from sr. matric—gen. BA 4 yrs. from sr. matric.—BA with hon. (in classes, Engl., French, German, geog., hist., maths, philos., pol. & econ. sci., psychol. Spanish), gen. BA & BPHE, BSc with hon. (in biochem., biol., chem., geol. sci., phys., physiol.); BSc in engin. (chem., civil, electr., mech., metall., mining), geol. sci., phys., chem. (analyst and appl.), BCom 5 yrs. from sr. matric—BNSc. 6 yrs. from sr. matric.—MD.

**HIGHER DEGREES** 1 yr.—MA (in all subs. in which an hon. BA may be taken), MSc (in all subs. in which an hon. BSc or BSc in engin. may be taken). 2 yrs.—MSc(Med) (after MD), MBA (2 yrs. after completion of a degree from an approved univ.), PhD (after master's degree, all facs.); 3 yrs.—LLB (after BA), BD. Courses leading to these degrees are open to grads. of other univs.

**HONORARY DEGREES.** LLD, DD, DSc.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS, ETC.** 1 yr. from sr. matric and nursing grad.—pub. health nursing, teaching & supervision in hosp. schs. of nursing; 1 yr. from degree in arts, sci., engin., comm.—bus. admin.; 1 yr. from BSc—grad. dipl. in engin., nuclear engin. 3 yrs. from sr. matric.—testatur in theol. 4 yrs. from MD and tlg. in recognized radiol. dept.—med. radiol. (diag. & therapy), 4 yrs. from MD—nurses' dipl.

**FURS p.n.** (class, exam. and student interests) in arts & sci., \$455; comm., \$435, BSc in arts & sci., \$470, appl. sci., 1st & 2nd yrs., \$545; 3rd & 4th yrs., \$505, med., 1st & 2nd yrs., \$470; 3rd, 4th, and 5th yrs., \$505; phys., \$470; 1st, 2nd, 3rd & 4th yrs., \$455; health educn., \$470; nursing, 1st yr., \$455; 2nd, 3rd & 4th yrs., \$50; 5th yr., \$470, law, \$455.

**ACADEMIC YEAR** Winter session, 2 terms: Sept. to Dec., Jan. to May.

**UNIVERSITY EXTENSION.** Correspondence courses for teachers and others unable to pursue full degree courses in arts. Candidates for degrees must be in attendance at the univ. for 4 summer schs. (6 wks. in July and Aug.), or 2 winter sessions, or 1 winter session and 2 summer schs. and must complete within that period not fewer than 7 courses. The final written exams are the regular univ. exams. Extension tutorial classes supplementing the work by correspondence are conducted by members of the univ. staff and others in various centres. Other activities organized or assisted by the dept. are: a series of public lectures at the univ.; a concert series; short courses and conferences which vary from vocational to cultural; individual lectures by members of staff; material provided for study groups and drama groups; an annual series of vocational and special interest talks given to inmates of Collins Bay and Kingston penitentiaries; evg. non-credit courses.

Banking courses lead to dipl. of associate or fellow of the Canadian Banking Assoc., tuition is available by correspondence to members of Canadian banks. By agreement with the Ontario Institute of Chartered Accountants, Toronto, the tuition for their course, leading to the C.A.'s cert., is given by the univ. A 2-yr. course leading to a dipl. is administered for the Trust Companies Assoc. of Canada; executive development courses, seminars and conferences at various levels of management are offered by the sch. of bus.

**SUMMER SESSION.** Six wks., beginning early in July. Some credit courses are offered in entirety at the summer session, others have exercise requirements during May and June in prep. for lectures at the summer sch. Non-credit courses in ballet, painting and music are offered each yr. as sp. features in the summer sch. In addn., the Inst. d'Études Anglaises for French-speaking Canadians is offered each yr. (see 'Vacation Courses', below).

**VACATION COURSES.** Institut d'Études Anglaises is held each summer for 6 wks. and is intended particularly for French-speaking Canadians who wish to learn English. The sch. of the fine arts, incl. instruct. in art, ballet, drama and music, is held each summer for 6 wks.

**ENTRANCE SCHOLARSHIPS.** 10 provincial scholcs., value \$2000 each; 9 Ontario matric. scholcs., value \$1500 each; 8 Ontario matric. scholcs., value \$900 each; 50 other scholcs. ranging in value from \$25 to \$400, incl. Despeche scholc. \$150, awarded for man or woman whose father took active part in Dieppe raid; scholc. offered by Ontario Hockey Assoc., \$180; 3 General Motors Canadian scholcs., ranging from an hon. award of \$200 to \$2000 p.a., Union Carbide Co. scholcs., \$2500 each, and Steel Co. of Canada Ltd. scholcs., \$700 in 1st & 2nd yrs., \$500 in 3rd & 4th yrs., open to students entering

comm. and engin.; scholps. for Ontario students entering courses in sci., Assocn. of Professional Engineers for province of Ontario scholp., \$500, awarded in alternate yrs., Lincoln-Might scholps. in engin., \$400; Dofasco scholp., \$2400 (\$600 p.a. for 4 yrs.); Anglo-Canadian Pulp and Paper Co. scholp., \$2400 (\$600 p.a. for 4 yrs.); Roy H. Davis scholp., \$4000 (\$1000 p.a. for 4 yrs.); Automatic Electric Co. scholp., \$2100 (\$600 in 1st yr., \$300 in 2nd, 3rd & 4th yrs.), inst. scholp., free tuition & cash grant of \$300, Thompson Prod. Ltd. scholps., \$2400 (\$600 p.a. for 4 yrs.), R. F. Sawsworth scholp., \$1000, payable over 4-yr. period, Canadian Bechtel bursary in engin., \$600.

**'OPEN' POSTGRADUATE AWARDS** R. S. McLaughlin fellowships, 12 of \$1200-\$1500 plus grant of \$200 p.m. up to a max. of 4 mos. if res. extended beyond regular session, for grad. work in humanities, soc. sci., maths, biol. sci., geol. sci., chem., phys. and engin., C.I.L. fellowship in chem. and chem. engin., \$2000; J. Lindsay fellowship in econ. geol. & mineral., 2 of \$800 each, Northern Electric Co. fellowship, \$1500, for grad. work in elect., mech. engin., chem., phys., Ceramic fellowship, \$2200 for res. in non-ferrous metals, chemicals or fertilizers, Shell Oil fellowship, \$1200 plus \$600 if summer work undertaken, for grad. work in chem., chem. engin., mech. engin., geol., phys. and geophys.; R. S. McLaughlin teaching fellowships in mech. engin., 2 of \$2200, for grad. work in mech. engin., tenable for 2 yrs., C. J. Hicks fellowship, \$1100, for res. in indust. reinf.; Gerald Row Foundation in Engl., \$1800; E. L. Bruce Memorial scholp. in geol., \$200 plus tuition. Following fellowships carry with them addnl. awards to bring total value to \$750. Sir James Ashken fellowship in Canadian hist., \$400, Western Ontario grads. fellowship in hist., \$320, G. M. Milligan fellowship in philos., \$350, M. Hersey fellowship in chem., \$400, W. Nash fellowship in chem., \$400.

**RESIDENCES** (tel. as for univ.). Ban Righ Hall (University Ave.), Adelaide Hall (University Ave.), Chown Hall (Stuart St.) and annexes have rooms for 440 women students and refectory accomm. for approx. 600. The annexes include Baker House, Goodwin House, Gordon House, Matheson House, Mude House, Macdonnell House. Board and lodging from \$276 to \$600 for full session. McNeill House, Morris Hall and Leonard Hall, the men's residences, are the first

3 units of a bldg. project which provides accomm. for most first-yr. men students and a proportion of upper-classmen selected to represent the various fac. and schs. There is accomm. for 610 men Board and lodging for session from \$370 to \$600. Berry House and Collins House, operated by the Science Co-operative Inc., are open to men students of all facs. Room and board per wk. for session 1961-62 was \$15. Berry House and Collins House together accomm. 34 men students. Boucher House, a co-operative house for women students, accomm. 21.

**STUDENTS' MEMORIAL UNION** Every male student is a member of the students' memorial union. The union has a dining-hall, lounge and billiard rooms, reading rooms, canteen and guest rooms for alumni and visitors to the univ.

**MILITARY SERVICE.** The Univ. naval trg. div., the Canadian officers' trg. corps and the R.C.A.F. reserve univ. flight offer courses of trg. which extend over the greater part of a student's univ. course. Undergrads. may apply for a permanent commission under the regular officer trg. plan.

**STUDENTS' HEALTH SERVICE.** Students are expected to provide their own hosp. insurance through the Out Hosp. Services Commission or other orgn. In addn., med., surg., anesthetic and nursing benefits are provided for all students through the univ. health service.

**EMPLOYMENT SERVICE.** The employment bureau assists grade and undergrads. in all facs. to secure suitable positions, and helps students to obtain work during vacation periods.

**ATHLETIC FACILITIES.** Gymnasium with swimming-pool of full Olympic size, large covered skating rink with artificial ice, and football field. Room and equipment for all students who wish to take part in football, hockey, badminton, basketball, field hockey, tennis, track athletics, archery, swimming, diving, boxing and wrestling. Good skating about 3 mls. from the univ.

**ALUMNI ORGANIZATION.** Alumni assocn., grads., 18,508.

**PUBLICATIONS.** *Calendars* (by fac. and schs.); *Admissions Bulletin*, *Scholarship Pamphlet*; *Fellowship Bulletin*; *Queen's Quarterly* (\$4 p.a.); *Queen's Journal*; *Queen's Review* (Alumni Assocn.).

## THE YEAR 1961

**PRINCIPAL BUILDINGS.** Woodlands Investments Ltd. (R. S. McLaughlin), Oshawa, \$390,000; R. Samuel McLaughlin Foundation, Toronto, \$89,950.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: additions to chem., mining, mech. engin. Approaching completion: renovation of and addition to med. fac's Richardson labs. of dept. of pathol.

**RETIREMENTS.** Prof. G. H. Ettinger (physiol.); Prof. Hilda C. Lard (German); Prof. R. G. H. Smiles (chem.); Prof. H. L. Tracy (classics); Prof. C. J. Vincent (Engl.).

**RESIGNATIONS.** E. L. Harrison (classics); Dr. W. P. Jellie (hist. & embryol.); H. Ohlendorf (phys. health educ.); Dr. E. C. B. Pederson (phys.); Dr. M. B. Perry (chem.); Dr. G.

Rosenbluth (econ.); Prof M. Ross (Engl.); Dr. H. F. Trotter (maths.).

DEATHS. Prof R. L. Dorrance (chem)

HONORARY DEGREES LL.D.—D. C. Abbott, chancellor, Bishop's Univ., J. Diefenbaker, prime minister of Canada; D. M. Jemmett, emer. prof. of elect. engin., L. Merchant, U.S. ambassador to Canada, N. Miller, emer. prof. of maths., J. F. McLaren, consulting engineer, Toronto, H. L. McLaughlin, prof. of orthop. surg., Col.; R. E. Powell, chancellor, McG., H. E. Read, dean of law, Dal., W. R. Sawyer, vice-commandant, R.M.C.; T. C. White, dir. of educa., Assum. DD—Rev. D. D. Gaynor, Brockville, Rev. N. Rawson, Montreal DSc—C. S. Beale, dominion astronomer; L. Martin, da. of state chem., N.R.C., Ottawa; H. R. Sells, design engineer, C.G.E., Peterborough

# Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	<i>Extra-Mural</i>	<i>Extra-Mural</i>	<i>Extra-Mural</i>
	<i>Intra-Mural</i>	<i>Winters</i>	<i>Summer</i>
Men	2417	1095	581
Women	1034	804	369
Total	3451	1899	890

In addition, there were 1150 students (604 m, 546 w) in the 1961 summer sch.

Distribution by Faculties. *Appl. sci.*, 805, *arts and phys. & health edn.*, 130; *arts & sci.*, 1597; *law*, 123, *grad studies*, 293, *law*, 88, *med.*, 342, *nursing*, 73. Total 3451

Included in the intra-mural figures above are:—

Part-time students, 69 (35 m, 34 w)

Postgraduate students, 293

First-year students, 1057

Students from other countries, 220. (Countries from which largest numbers came: U.S.A., 43; U.K., 39, W. Indies Fed., 35).

DEGREES AWARDED (1960-61). B.D., 9, Ph.D., 10, M.A., 21; MSc (arts & sci.), 22, BA (hons.), 53, BSc (hons., arts & sci.), 46; BA, 290, BCom, 11, MSc (engin.), 25, BSc (hons., engin.), 30, BSc (engin.), 174, MSc (Med), 2; M.D., 47, M.D. CM, 1; LL.B., 17, BNSc, 29, BPhE, 23.

DIPLOMAS AWARDED (1960-61). Med. radiol. (diag.), 1, bus. admin., 1, pub. health nursing, 3, teaching and supervision in hosp. schs. of nursing, 4, civil engin., 1

# ROYAL MILITARY COLLEGE OF CANADA\*

Founded 1876

Postal Address: Kingston, Ontario, Canada  
Cables and Telegrams: Royal Military College, Kingston, Ontario  
Telephone (General Information): 512-2341

PRESIDENT—THE MINISTER OF NATIONAL DEFENCE (*ex officio*)

COMMANDANT—Brigadier G. H. SPENCER, OBE, CD, BSc QM, MEIC

VICE-COMMANDANT AND DIRECTOR OF STUDIES—Col W. R. SAWYER, OBE, MSc Hon LLD Qu., PhD McG, FCIC

REGISTRAR AND SECRETARY OF THE FACULTY—Lt-Col T. F. GELLEY, BA Mount, MA Qu., Hon LLD Staff Adjutant—Lt-Col J. C. GARDNER, CD

ADMINISTRATIVE OFFICER—Lt-Col L. V. PERRY, MC, CD

LIBRARIAN—J. W. SPURR, BA BEd Acad

## TEACHING STAFF

[P=Part-Time]

<b>Chemistry and Chemical Engineering</b>		Gorman, W. A., MSc PhD McG	Lectr
Sawyer, Col W. R., OBE, MSc Hon LLD Qu., PhD McG, FCIC	Prof	Hamden, C. T., BSc	Lectr
Dacey, J. R., MBE, MSc Dnt., PhD McG, FCIC	Prof	<b>Engineering, Electrical</b>	
Naldrett, S. N., MSc Alta., PhD McG, FCIC	Prof	Hotherington, F. E., MSc Qu.	Prof.
Dwyer, D. G. M., MA DPhil BSc Oxon., FRIC, FCIC	Assoc. Prof	Broughton, M. B., BSc W. Ont., MAsc Tor	Prof.
Jones, R. A., MSc W. Ont., PhD McG	Assoc. Prof	Winter, D. A., MSc Qu.	Asst. Prof.
Furter, W. F., BAsc PhD Tw., SM M I T	Assoc. Prof.	Temowski, Sqn-Ldr H. J., BAsc Tw.	Asst. Prof.
Phillips, A. M., BSc Lond., MSc Clarkson	Lectr	Cox, A. H. H., BSc Lond.	Lectr.
Gall, C. E., BAsc Tw.	Lectr.	Caruthers, Capt F. R., BSc Qu., MEng McG.	Lectr.
Gatzke, A. L., BA MSc B. Col.	Lectr.	Bouter, Fl Lt J. A. J. S., BSc App Law	Lectr.
Stroons, Capt C. R., BSc Qu.	Lectr.	<b>Engineering, Mechanical</b>	
McCready, J. C., BSc Qu.	Tech. Officer	Sheppard, Sqn-Ldr K. F., BAsc Tw.	
<b>Engineering, Chemical, see Chem.</b>		Pike, J. G., BSc Qu., MSc Birm	Assoc. Prof
<b>Engineering, Civil</b>		MacDonald, Capt J. A., CD, BE N S T.C., MSc Mach.	Asst. Prof.
Dolphin, J. W., BAsc Br Col., MS(CE) Man.	Prof	MacDonald, I. J., BSc Qu., MSc Birm	Asst. Prof.
Ellis, J. S., BSc Qu., MEng McG., PhD Camb.	Prof	Leonard, Capt A. C., MBE, BSc Sask., MSc Mach.	Asst. Prof.
Hughes, G. T., MSc Alta.	Assoc. Prof.	Swintson, R. K., MSc Qu.	Lectr.
Gencou, Sqn-Ldr J. A., BSc New B.	Assoc. Prof.	Whitton, D. M., BSc Qu.	Lectr.
MacGowan, Capt J. P., BSc Qu.	Lectr	King, Lt-Col P. C., CD, BSc Qu.	Sp. Lectr
Stewart, Fl Lt J. A., BSc Qu.	Lectr.	<b>English</b>	
London, T. A., BAsc Br Col.	Lectr.	Watters, R. E., MA Tw., PhD IPir	Prof

\* Additional Member of the Association of Universities of the British Commonwealth

Avis, W. S., MA *Qu.*, PhD *Mich.* Assoc. Prof.  
 Wilson, H. R., MA *Tor.*, PhD *Mich.* Asst. Prof.  
 Beharrell, S. R., MA *Tor.*, PhD *Wis.* Asst. Prof.  
 McAdam, J. I., BA *Ness Br.*, MA *Qu.*,  
 PhD *Leind.* Asst. Prof.  
 Booth, M. R., BA *Br. Col.*, MA PhD *Leind.* Asst. Prof.

**French**, see Mod Langs

**German**, see Mod Langs

### History

Stanley, G. F. G., BA *Alta.*, MA BLitt  
 DPhil *Oxon.*, FRHistS, FRSCan Prof  
 Preston, R. A., MA *Leind.*, PhD *Yale*,  
 FRHistS Prof  
 Cappadocia, E., MA *Tor.*, PhD *Chc.* Assoc. Prof.  
 Schurman, D. M., MA *Acad. & Camb.*,  
 PhD *Camb.* Assoc. Prof.  
 Thompson, F. F., MA *Dal.*, DPhil *Oxon.* Assoc. Prof.

### Mathematics

Elhott, H. A., MA *Camb.*, PhD *Brut.* Prof  
 Pope, N. K., MSc N.Z., PhD *Edu.* Prof  
 Smith, L. A., BE MSc *Sask.*, PhD *McG.* Assoc. Prof.  
 Miles, R. F., MA *Tor.*, PhD *Camb.* Assoc. Prof.  
 MacKay, C. D., MSc *Qu.*, PhD *McG.* Assoc. Prof.  
 Antliff, W. B., BSc *McG.*, MA *Ness Br.*,  
 PhD *Qu.* Asst. Prof.  
 MacDonald, R. J., MA *Sask.* Asst. Prof.  
 Hestocks, J. D., MA *Tor.* Lectr

### Military Studies

Ley, Lt.-Colndt. H. R. H. Assoc. Prof.  
 Wiltshire, Sqn-Ldr W. F., CD Assoc. Prof.  
 Jefferson, Major K. I., CD Assoc. Prof.

### Modern Languages

Therault, J. A., BA *Ont.*, MA  
 PhD *Leind.* Assoc. Prof.

Laurière, A. E., BA *Ont.*, MA *Mont.*,  
 DU *Pau.* Assoc. Prof.  
 Leoux, N., MA *Mont.*, DU *Camb.* Asst. Prof.  
 Fleury, F., MA *Camb.*, L&L *Pau.* Lectr.  
 de Margerie, Y., BA *Ont.*, L&L *MA Leind.* Lectr.  
 Gauthier, P., BA *Pau.*, MA *L&L Mont.* Lectr.

### Physics

Hutchison, T. S., BSc PhD *St. And.* Prof  
 Jackson, L. C., MSc *Leind.*, PhD *Ley*, FIP Prof  
 Edwards, M. H., MA *Br. Col.*, PhD *Tor.* Prof  
 Rogers, D. H., MSc *Dal.*, PhD *M. I. T.* Assoc. Prof.  
 Baird, D. C., BSc *Edu.*, PhD *St. And.* Assoc. Prof.  
 Paul, D. A. L., MA *Camb.*, PhD *Qu.* Asst. Prof.  
 Filmer, A. J., MSc *Alta.* Lectr.  
 Degan, V., MA *Tor.* Lectr.  
 McKirdy, A. S., BSc *Glas.* Lectr.  
 Lowther, L. H., BSc *Acad.* Tech. Officer

### Political and Economic Science

Malach, V. W., BA BCom *Qu.*, PhD *Leind.* Prof.  
 Beck, J. M., MA *Acad. & Tor.*, PhD *Tor.* Prof.  
 Brown, T. M., BA *W. Ont.*, MA *Tor.*,  
 PhD *A.N.U.* Prof.  
 Newcombe, C. W., BCom *Qu.* Assoc. Prof.  
 Currie, J. P., BA *Tor.*, MA *Col.*,  
 PhD *Johns H.* Asst. Prof.  
 McArthur, N. M., MA *IV Ont.*, PhD *Mich.* Asst. Prof.  
 Bannister, H. H. F., BA *W. Ont.*,  
 MA *Qu.*, PhD *McG.* Asst. Prof.

### CADET ORGANIZATION

Gindner, Lt.-Col. J. C., CD O/C Cadet Wing  
 McLeod, Maj. W. J., MC, CD Athletic Dir.  
 Shackell, Lt. S. W. Offr. i/c P.T.  
 Wallis, Flt Lt. A. D., BA Sqn Comd.  
 White, Flt Lt. A. M. J., BA Sqn Comd.  
 Thomas, Lt. W. F. J., BCom *Sask.* Sqn Offr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Admin. Officer: Major P. R. V. Cal-  
 Hume, MC, CD. Asst. Registrar: A. J. Curley,  
 MA, DPhil *Camb.*. Asst. Admin. Officer (A):  
 Capt J. M. Jordan, CD. Phymester: Capt J. C.  
 Crosby, CD. Q.M.: Capt D. M. Maxwell.  
 Asst. Q.M.: Lt. J. Weir. Personal Asst. to Com-  
 mandant: Capt H. F. H. Pullen, BA *Tor.*  
 Public Relations Officer: Capt. C. G. Darling. Med.  
 Officer: Sarg. Cmdr. W. B. Patterson. Catering  
 Officer: Lt. G. G. Sauvé. Dent. Officer: Capt.

J. L. Y. Cyrénne, BA *Leind.*, DDS *Mont.*  
 Protestant Chaplain: Capt. H. W. Johnson, MBE,  
 CD, BA *Tor.*, BD *Yic. Tor.*. Catholic Chaplain:  
 Major P. J. Dufour, CD, MA *STD Ont.*. Asst.  
 Librarians: J. D. P. Martin, BA *Qu.*, BLS *McG.*;  
 C. R. Watt, BA *Mont.*, BLS *McG.*. Asst.  
 Cataloguer: B. Lupanus, Major Rgs. General  
 Library Asst.: S. Howden, MA *BLS Ont.*;  
 H. K. McGlade, BA *Ont.*

## CONSTITUENT COLLEGES

ROYAL ROADS, Victoria, B.C.: Established in 1948  
 as a naval coll. and in 1947 reorganized as a com-

bined RCN-RCAF coll. In 1948 it became a  
 tri-service coll. Commandant—Group Capt.

## CANADA



A. F. Avant, DSO, DFC, CD, BScME *Sash*,  
 Dir. of Studies—Prof. E. S. Graham, MSc *Qv*,  
 PhD *MIT*; Registrar—A. C. Privett, MA  
*Cambr.*

COLLÈGE MILITAIRE ROYAL DE ST-JEAN, St-J

Jean, PQ. Establd. in 1952 as a tri-service coll.  
 Commandant—Capt M. Jettie, CD, Dn of  
 Studies—G. B. Gauthier, BA MSc *Montr.*, DSc  
*Penn.*, Registrar—D. Dion, BA LLB MSc Soc  
*Laval*

## GENERAL INFORMATION

The Royal Military Coll of Canada originated in 1875 when the dominion govt. decreed that there be establd. 'an instn for the purpose of imparting a complete educn. in all branches of military tactics, fortification, engineering, and a general scientific knowledge in subjects connected with and necessary to a thorough knowledge of the military profession, and for qualifying officers for command and for staff appts.' The site selected was the old naval dockyard on Point Frederick. The coll. was opened in 1876. The title 'Royal' was conferred in 1898. The coll. was closed for cadets from 1942 to 1948 but was used for officer courses. It was reopened for cadets in 1948 as a tri-service coll.

The purpose of the coll., as well as of Royal Roads and Le Collège Militaire Royal de Saint-Jean, is to train cadets in the moral, mental and physical requirements for entry into the commissioned ranks of the sea, land and air forces. The moral trg. includes the devel. of the essential characteristics of discipline and leadership. Mental trg. includes the fundamental military and scientific knowledge required in all branches of the service and in particular of the technical corps, and provides a balanced and liberal educn. in arts and sciences.

**CONSTITUTION.** The Royal Military Coll., Royal Roads and Le Collège Militaire Royal de Saint-Jean are administered by the dept. of natl. defence, and the ministry of natl. defence is, ex officio, pres. of the coll. The arts, sci. and engin. facs. operate as a joint fac. under a dir. of studies.

**COLLEGE PREMISES.** The coll. is situated on a peninsula at the confluence of the St. Lawrence and Cataragui rivers at the eastern outlet of Lake Ontario. On a site of 94 acres there are 7 teaching bldgs., a library, 3 residences, a gym., officers' and cadet messes, 12 fac. residences, and athletic facilities including 5 playing fields, a rink, swimming-pool, tennis courts, rifle ranges, boat houses, etc.

**LIBRARY.** 84,000 vols.

**LABORATORIES.** Chem., phys.; civil, electr., mech. and chem. engin.

**ACCOMMODATION.** See Appendix III.

**FIRST DEGREE.** BA—4 yrs. for both gen. degree and hona. degree in Engl., French, hist., econ., pol. sci. and econ.; BSc—4 yrs for gen. degree (hona. from 1962 in maths. and phys.); BEng—4 yrs for chem., civil, electr., mech., engin., and engin. phys. (from 1962). Hona. options have specific requirements, plus a thesis. Entry to all courses is from sr. matric.

**HONORARY DEGREES.** LL.D., DScMil, DSc.

**CANADIAN SERVICES COLLEGES INTEGRATION.**

For cadets entering R.M.C. the course is 4 yrs. For cadets entering Royal Roads the course is 3 yrs., cadets then proceed to R.M.C. for final 2 yrs. For cadets entering Le Collège Militaire Royal de St-Jean the course is 3 yrs., including prep yr., cadets then proceed to R.M.C. for final 2 yrs. Instrcn. for first 2 univ. yrs is coordinated for entry into third yr. at R.M.C.

**MILITARY OBLIGATION.** Each cadet must undertake to serve after graduation as a commissioned officer in one of the three armed services, in either active or reserve forces.

**REGULAR OFFICER TRAINING PLAN.** This plan was introduced in 1952. Cadets accepted under the plan for entry in Canadian services colls. are enrolled as naval cadets in Royal Canadian Navy, as officer cadets in Canadian Army, or as flight cadets in Royal Canadian Air Force. On successful completion of their academic and military trg. such cadets will be promoted to commissioned rank in regular force. The privilege of release, if desired, will be granted after 3 yrs. of commissioned service. The cost of tuition, bd., uniforms, books, instruments and other essential fees will be borne by dept. of natl. defence; a cadet will receive \$63 a month and allowances, with fice med. and dent. care and annual leave with pay and allowances.

**RESERVE FORCE ENTRY.** A limited no. of cadets, up to 15 per cent. of the entry, may be accepted for admission to the Canadian services colls. These cadets are not required to serve in the regular force on graduation.

**FEES** (applicable to reserve force entry cadets) 1st yr.—\$550, covering tuition, uniforms, educn. materials and incidentals; each subsequent yr.—\$500. Annually—\$485, for meals and accomm.; \$30, recreation; \$100, contingency (unexpended portion refundable). See also 'Regula. Officer Trg. Plan', above, and 'Dominion Cadetships', below.

**ACADEMIC YEAR.** 2 terms: fall (Sept. to Dec.); and winter (Jan. to April), providing 25 wks. of instrcn., exclusive of exams. A short spring term of 4 wks. has been added to provide time for survey, labs., thesis work in hona. courses, physical educn., etc.

**SUMMER TERM.** All cadets are required to attend a trg. centre of the service of their choice in order to obtain the necessary service qualifs.

**DOMINION CADETSHIPS** Sons of persons killed or incapacitated as a result of service in armed forces of Canada are eligible for Dominion Cadetships. There are limited to 15 in any one year. Holders of Dominion Cadetships are provided with tuition, uniforms, meals and room at public expense for the 1st academic yr at a Canadian services coll.

**RESIDENCE** All cadets are in uniform and live

in residence. Three blocks, providing 400 single and dble rooms.

**SUMMER SERVICE SCHOOLS** R.M.C. facilities are used in the summer months for jr. officers' courses, C.O.T.C., and other qualifying courses.

**PUBLICATIONS** *Calendar* (annual); *Admission Requirements* (annual), *Cadet Handbook* (annual), *The R.M.C. Review* (annual), *The Mikes* (bi-weekly).

### THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS** Bldgs completed: installation of new labs for phys. and org. chem., new phys. lecture theatre and new lang. labs.

**PROMOTIONS.** Brig W. A. B. Anderson (commandant), promoted to rank of Maj-Gen and named Adj. Gen. of Canadian Army; H. P. Davis (maths.), apptd. assoc. prof., Waterloo U.; J. H. M. Hill (chem. & chem. engin.), to Hobart (N.Y.); G. Labbé (mod. lang.), J. R. Rutherford (maths.), to grad. work at Qu.; R. W. Walkerton (mech. engin.).

The following officers to service units on reporting—Capt. B. L. Bobinski (cadet wing), Capt. I. M. Gelbavich (cadet wing).

**HONORARY DEGREES.** D.Sc. (Hon.)—H. B. May-Gen. G. P. Vansai, Gen. H. D. G. Crerar LL.D.—Lt.-Col. T. F. Gellay, registrar and sec.

of fac., Prof. C. C. Cook, formerly dir. of studies, Royal Roads; Lt.-Col. C. A. Chabot.

#### Statistics

##### CADET NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men only	451	—
(Plus Royal Roads, 214, Collège Militaire Royal de Saint-Jean, 414)		

Included in the figures above are —

New admissions, 74

**DEGREES AWARDED (1960-61)** BA, 36, BSc, 14

**DIPLOMAS AWARDED (1960-61)** Began, 79

# SAINT DUNSTAN'S UNIVERSITY\*

Founded 1835

*Postal Address* · Charlottetown, Prince Edward Island, Canada

*Cables and Telegrams* · St. Dunstan's University, P E I

*Telephone* · Charlottetown 892-1248

CHANCELLOR—Most Rev M A MacEachern, PhD *Lewam*, DD *Moxh*, Bishop of Charlottetown

PRESIDENT—Rt Rev J A Sullivan, MA CUA

REGISTRAR—Rev E. J Roche MSc *Notre Dame*

LIBRARIAN—Rev A F MacDonald, BA BLS *Tor*, MA CUA

## TEACHING STAFF

<b>Biology</b>		<b>Home Economics</b>	
Ellsworth, Rev R. G., DD <i>Laval</i> , MSc CUA	Prof.	St Louis Marie, BSc(HH) <i>St FX</i>	Prof
Chaville, Rev C., PhD CUA	Prof	<b>Latin and Greek</b>	
<b>Chemistry</b>		Kelly, Rev J. R., MA CUA	Prof
Cass, Rev. F. L., BSc <i>McG</i> .	Prof	<b>Mathematics</b>	
Duffy, Rev R., PhD <i>Fortham</i>	Prof	Roche, Rev E. J., MSc <i>Notre Dame</i>	Prof.
<b>Commerce</b>		Arvesault, G., BSc BA	Assoc Prof
Murnaghan, Rev. V. G., MCom <i>Tor</i>	Prof	MacKinnon, A., MSc <i>St FX</i>	Assoc Prof
Hilton, E., BCom <i>St FX</i>	Assoc. Prof.	<b>Philosophy</b>	
<b>Economics</b>		MacLellan, Rev. T. M., STD <i>Maur.</i> , PhD <i>Laval</i>	Prof
Murphy, J. C., BA PhD CUA	Prof	Landagan, Rev L. W., BA	Assoc. Prof.
<b>Education</b>		Green, J. E., BA MSW CUA	Assoc. Prof.
Sr. Mary Ida, MA <i>Our</i>	Prof	<b>Physics</b>	
Shuckey, Rev O. C., MA <i>Dal</i> , PhD <i>Col</i>	Prof	MacDonald, Rev. G. A., MSc <i>Dal.</i>	Prof.
<b>Engineering</b>		<b>Religion</b>	
MacDonald, Rev. A. C., MSc <i>MIT</i>	Prof	Sullivan, Rt Rev. J. A., MA CUA	Prof.
MacPhee, R. A., BE <i>New Br</i>	Assoc Prof.	<b>Secretarial Science</b>	
<b>English</b>		St Thomas Marie, BA	Prof.
O'Grady, B. A., AM <i>Col</i> , PhD <i>Our</i>	Prof.	<b>Sociology</b>	
MacIntyre, Rev W. F., MA <i>Our</i>	Assoc Prof	MacDonald, Rev A. F., BA BLS <i>Tor</i> , MA CUA	Prof
<b>French</b>		<b>Spanish</b>	
Peters, Rev. J. W., MA <i>Laval</i>	Prof	Vidal, F., BA <i>Brunsch</i>	Prof
Arvesault, Rev. A., BA	Assoc. Prof		
<b>History</b>			
McGaugan, Rev W. J., MA CUA	Prof		
Bolger, Rev F. W. P., BA PhD <i>Tor</i>	Prof		

## ADMINISTRATIVE AND OTHER STAFF

Registrar	Rev F. P. Aylward, BA	Coll	Dean of Women	Sister Thome Marie, BA
Physician	C. A. Coady, MD CM <i>Que</i>	Dean of	Dir of Athletics	A. J. MacAdam, BA BSc
Men	Rev V. G. Murnaghan, MCom <i>Tor</i>		Dir. of Discipline	Rev. J. R. Kelly, MA

\* Member of the Association of Universities of the British Commonwealth

C.U.A., Rev F W P Bolger, BA PhD Tw, Rev A C MacDonald, MSc MIT, Sister Louis Marie, BSc(HE) St FX Cttos on Studies; Rev E J. Roche, MSc Notre Dame, Rev A C MacDonald, MSc MIT, J C

Murphy, PhD C.U.A., Rev V G Munaghan, MCom Tor, Sister Thomas Marie, BA; Rev R G Elkworth, DD Lond, MSc C.U.A Dir of Extension Work Rev W P MacIntyre, MA Ont

## GENERAL INFORMATION

St Dunstan's Univ., opened in 1855, was by act of the Prince Edward Island legislature granted a charter in 1917 as a univ. 'with all and every the usual rights, powers, and privileges of such an institution'. From 1892 to 1940, by virtue of affiliation with Laval Univ., the degrees of that institution were conferred on all those who completed the St. Dunstan's courses and successfully passed the exams. given by Laval Univ., but since 1940 the powers of its charter have been exercised in full and independent action. St. Dunstan's is the diocesan univ. of the Roman Catholic diocese of Charlottetown and is co-educational.

**CONSTITUTION** The ptes has charge of the general admin of the univ. In the discharge of his duties he is subject to the bd of governors under the chairmanship of the bishop of the diocese of Charlottetown, and is assisted by the offices of the staff in matters pertaining to studies, discipline and finances.

**FACULTY AND DEAN** Arts, sciences & comms, Rev E J Roche (maths).

**UNIVERSITY PRINCIPAL** The univ. is situated on the trans-Canada highway, about 1 mile from the city of Charlottetown. Its site comprises 400 acres of land, part of which has been set aside for the campus and the rest for the univ. farm.

**ADMISSION** See Appendix III

**DEGREES** 4 yrs from p. matric—BA, BSc, BCom. 5 yrs from p. matric or 3 yr. from BA, BSc or BCom—BEd. No honours degrees or higher degrees awarded.

**HONORARY DEGREES** LL.D.

**DIPLOMAS** Engin., 1 yr. from p. matric, admits to 4th yr of 5-yr course at Nova Scotia

Tech Coll. Secretarial studies, 2 yrs from p. matric.

**FEEs** Tuition, board, \$560 p a

**ACADEMIC YEAR** Sept–May 2 terms of 15 weeks each

**USUAL LANGUAGE OF INSTRUCTION** English is the official language used in lectures

**VACATION COURSES** Summer sch of 6 wks. held in July–Aug. Classes offered in arts & scs. and educn. for teachers and regular session students.

**RESIDENCES** 3 residences for male students (Main Building, Dalton Hall and Memorial Hall), each accomm. about 80 students, and 1 for female students (Marion Coll.), accomm. 60. Fees per room—\$60 p a. For directors of discipline, see 'Admin and Other Staff', above.

**MILITARY FORMATIONS** The Canadian officials' try corps has a contingent on the campus and offers to selected students an opportunity to qualify for commissions in the Canadian army. The univ. naval try div. also has a branch on the campus through which students may qualify for commissions in the royal Canadian navy (reserve).

**ATHLETICS** Principal athletic activities are football, hockey and basket-ball, and ample facilities are provided for these in football fields, an indoor skating rink and a large gymnasium.

**STUDENTS' UNION** The union co-ordinates all organized student activities, such as athletics, dramatics, debating, the publishing of the students' magazine, etc.

**PUBLICATIONS** Calendar (June); Red and White (students' publication), monthly; *Alumni Bulletin*, 4 times yrl.

## THE YEAR 1961

**HONORARY DEGREES** LL.D.—Rt. Rev G. J. McLellan, former pres.; Hon. Justice A. E. Aisensult, former premier, and retired justice, supreme court of P.E.I.; Hon. A. Maloney, M.P. for Toronto-Parkdale

### Statistics

**STUDENT NUMBERS, 1961–62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men . . .	345	12
Women . . .	92	69
Total	437	81

\* Includes evening classes

Distribution by Faculties, etc. Arts, 220; comms, 54; educn, 39; engin, 41; sci., 158; secretarial, 6. Total: 518.

Included in the figures above are—

Postgraduate students, nil.

New admissions, 211.

Students from other countries, 72. (Country from which largest number came: U.S.A., 53)

**DEGREES AWARDED (1960–61).** BA, 18; BSc, 11; BCom, 3; BEd, 3

**DIPLOMAS AWARDED (1960–61).** Engin., 8; secretarial studies, 2

# ST. FRANCIS XAVIER UNIVERSITY\*

Founded 1853

*Postal Address* : Antigonish, Nova Scotia, Canada  
*Cables and Telegrams* : University, Antigonish, Nova Scotia  
*Telephone* : Antigonish 1139

CHANCELLOR AND *ex-officio* CHAIRMAN OF THE BOARD OF GOVERNORS—Most Rev. W. E. POWER, DD  
 Bishop of Antigonish  
 PRESIDENT EMERITUS—Rt. Rev. P. J. NICHOLSON, PhD *Juris* H., Hon. LLD Hon. DSc  
 PRESIDENT—Rt. Rev. H. J. SOMERS, PhD C.U.A., Hon. DLit, FRHistS  
 EXECUTIVE VICE-PRESIDENT—Very Rev. C. H. BAUER, BA  
 VICE-PRESIDENTS—Rev. J. N. MACNEIL, JCD *Postif Athen. Anglican*, Very Rev. F. J. SMITH  
 PRINCIPAL, XAVIER JUNIOR COLLEGE—Rt. Rev. M. A. MACLELLAN, PhD C.U.A.  
 DEANS—Dean of Arts—Rev. D. P. CAMPBELL, MA PhD C.U.A. (Educn.), Dean of Science—J. J. MACDONALD, PhD Tw. (Chem.); Dean of Men—Rev. G. KIRKOP, Dean of Freshmen—Rev. R. B. MACDONALD, STD *Postif Athen. Urb*  
 REGISTRAR—Rev. W. K. EDWARDS, BA  
 BURSAR—Rev. J. V. CAMPELLO, BA  
 DIRECTOR OF RELIGIOUS ACTIVITIES—Rev. H. GARDINER, BA  
 LIBRARIAN—Sr. ROSINA CLARE, BLS Ter  
 DIRECTOR OF UNIVERSITY EXTENSIONS—Rev. J. N. MACNEIL, JCD *Postif Athen. Anglican*

## TEACHING STAFF

### Biology

CHAMBERLAIN, L. P., MA PhD Tor. Prof.  
 ROUSSELL, Rev. G., MS PhD *Fordham* Asst. Prof.  
 THOMPSON, R., MSc W. Ont Asst. Prof.

### Celtic Studies

MacLeod, Major C. I. N., MA *Edin.* Asst. Prof.

### Chemistry

Foley, W. T., PhD *Laval* Prof.  
 MacDonald, J. J., PhD *Tor.* Assoc. Prof.  
 Secco, E. A., PhD *Laval* Assoc. Prof.  
 Berry, Rev. P., BA PhD *Notre Dame* Asst. Prof.  
 Bunbury, D., PhD *Notre Dame* Asst. Prof.

### Classics

Power, Rev. G., PhD *Harv.* Prof.

### Economics, Sociology, Political Science, Commerce

Sr. St. Mary Donald, AM *Col* (Comm.) Prof.  
 Stewart, J. B., PhD *Col.* (Pol. Sci.) Prof.  
 Kilbride, B. J., MBA *Col.* (Comm.) Assoc. Prof.  
 Sears, J. T., MBA *Detroit* (Comm.) Assoc. Prof.

Kentak, W., BA *Owen* (Pol. Sci.) Assoc. Prof.  
 Wintermans, A. J., DEcon *E H Tylburg*  
 (Econ.) Assoc. Prof.  
 Millen, Rev. P. S., MA *C.U.A.*  
 (Econ.) Assoc. Prof.  
 Woodfine, W. J., MA *McG*, PhD *M.I.T.*  
 (Econ.) Assoc. Prof.  
 MacLenn, Rev. L., MBA *Detroit*  
 (Comm.) Asst. Prof.  
 Cuyes, R., DrRazPol *Gray* (Sociol.) Asst. Prof.  
 Campbell, Rev. D., BA (Sociol.) Lect.  
 Glasgow, P., MA (Sociol.) Lect.

### Education

Campbell, Rev. D. F., MA PhD *C.U.A.* Assoc. Prof.  
 Sr. St. Michael, MA *Tor*, PhD *Fordham* Assoc. Prof.  
 MacLenn, Rev. M., MSinEduca *Fordham* Assoc. Prof.  
 Whyte, L., MSinEduca *Fordham* Asst. Prof.  
 Campbell, J. D., MA *Col.* Asst. Prof.

### Engineering

Fogarty, Rev. W. P., BSc *McG* Prof.

\* Member of the Association of Universities of the British Commonwealth

MacDougall, J. H., BE N S T C. Penny, G., BE N S T C	Assoc. Prof. Lectr.	<b>Philosophy</b> MacDonald, Rev. C. R., PhL Laval Gillis, Rev. J. H., PhD C U A, Monahan, E. J., LMS Pontif. Inst., Tor, PhD Tor, Gatto, Rev. E., MA Tor.	Prof. Assoc. Prof. Assoc. Prof. Asst. Prof.
<b>English</b> Bannon, Rev. R. V., MA Edwards, Rev. W. X., BA MacPherson, J. A., MA Assm MacSweeney, Rev. R., BA Brumelle, Y. G., MA Hava. MacLellan, Rev. V., BA Sr St Dorothy Marie, PhD Ott Glover, S. G., BA Tor Reed, J. K., MA C U A	Prof. Assoc. Prof. Assoc. Prof. Assoc. Prof. Asst. Prof. Asst. Prof. Asst. Prof. Lectr. Lectr.	<b>Physics</b> Clarke, Rev. E. M., DSc Laval Herbert, G., PhD W Ont. Wengertshofer, A., DSc Laval Maroun, Rev. A. T., ME N S T C Penny, G., BE N S T C Kelly, A., BSc Hubisz, J., BSc	Prof. Asst. Prof. Asst. Prof. Lectr. Lectr. Instr. Instr.
<b>French</b> MacLean, C. D., DUParis Dorrou, L., MA Montr. Babin, J.-W., MA Laval	Prof. Assoc. Prof. Asst. Prof.	<b>Political Science, see Econ</b>	
<b>Geology</b> MacNeil, D. J., PhD Prin. Keating, B. J., PhD McG. Comrie, R., PhD M.I.T. Whitehead, W. L., PhD M I T., DSc	Prof. Prof. Asst. Prof. Visiting Prof.	<b>Psychology</b> MacNeil, Rev. F. X., BA MacDonald, O., MA Dal. Murphy, N., MD N U.I.	Lectr. Lectr. Lectr.
<b>German</b> Bauser, Very Rev. C. H., BA Kellner, Rev. V.	Prof. Lectr.	<b>Religion</b> MacKinnon, Rev. G. A., BA MacDonald, Rev. R. B., STD Pontif Athen Urb Campbell, Rev. J. V., BA Gaul, Rev. F., BA Graham, Rev. J., BA Gardner, Rev. H., BA Kehoe, Rev. G.	Assoc. Prof. Asst. Prof. Lectr. Lectr. Lectr. Lectr. Lectr.
<b>History</b> MacDonell, Rev. M., MA Tor. Sr St. Veronica, MA C U A Somers, Rt. Rev. H. J., PhD C U A, FRHistS O'Keefe, Rev. L., MA Notre Dame	Prof. Prof. Prof. Asst. Prof.	<b>Sociology, see Econ.</b>	
<b>Mathematics</b> McKenna, Rev. L. G., MA Glaivann, Rev. F. J., PhD Notre Dame	Prof. Assoc. Prof.	<b>Spanish</b> Penley, Rev. R. D., MA C U A	Asst. Prof.
<b>Music</b> Sr St. Michael of the Eucharist, MMinus NewEng Cour	Lectr. Lectr. Assoc. Prof.	<b>EXTENSION DEPARTMENT</b> MacNeil, Rev. J. N., JCD Pontif Athen. Angelicus Chusson, R. J., MA Col., PhD Lond 2 Lectrs., 12 Field Workers, 1 Field Specialist, 1 Housing Specialist, 2 Field Supervisors	Dir Assoc. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Asst. to President for Alumni Relations: Rev  
M. MacDonell, MA Tor Business Manager  
C. R. Chodwick, Public Relations Officer. B  
O'Connell, BA. Assoc. Prof. of Phys. Educn.

A MacAdam, MPE Springfield. Resident Staff  
Officer: Capt W. B. R. George. Dir. of Place-  
ment: D. J. Loney.

## ASSOCIATED INSTITUTION

MARILINE SCHOOL OF SOCIAL WORK, Halifax,  
N.S. (tel.: Halifax 3-6907). Founded 1941.  
Provides 2 yrs. professional trg. leading to degree  
of Master of Social Work (MSW) of St. Francis

Xavier for approved graduates of St. Francis  
Xavier and other recog. univs. Dir.—L. T.  
Hancock, MA Chic & K.C.N.S., BSW IdG.

## AFFILIATED INSTITUTIONS

MF ST BERNARD COLLEGE, Antigonish, N.S.  
(tel. Antigonish 74) Women's residence  
Superior—St George Marine.

NOTRE DAME COLLEGE, Nelson, B.C. Affiliated  
in 1960

ST MARTHA'S HOSPITAL SCHOOL OF NURSING,

Antigonish, N.S. (tel.: Antigonish 51) Students  
complete 3 yrs of nursing training required for BSc  
Nursing Supt. of Nurses—St Clare Marie.

XAVIER JUNIOR COLLEGE, George St., Sydney,  
N.S. (tel.: Sydney 6418) First 2 yrs in any fac.  
of the coll are recognized by univ. Principal—  
Rt. Rev. M. A. MacLellan, PhD C.U.A.

## GENERAL INFORMATION

The univ. was founded in 1853 in Anchar by the Rt. Rev. C. F. MacKinnon, bishop of the diocese of Anchar, and subsequently moved to its present location at Antigonish. Full univ. powers were conferred by the province of Nova Scotia in 1886. The univ. is under the direction of the Catholic church, but there are no religious tests for entrance or for degrees. Permanent bldgs. were begun in 1880.

In 1894 Mt. St. Bernard Coll., founded in 1883, was affiliated with the univ. The univ. extension dept. was organized in 1929. In 1951 Xavier Junior Coll. was establd. in Sydney, N.S., as an integral part of the univ. In 1959 the Condy International Inst. was establd. (see below).

**CONSTITUTION.** The bd. of governors is composed of: bishop of Antigonish, ex-officio chairman; pres. of univ., ex-officio vice-chairman; banner of univ., sec.-treasurer; dir. of extension dept., principal of Xavier Jr. Coll., 7 members elected each yr. for a 3-yr. term by the bd. itself; 3 members elected by fac. of univ.; 3 members elected by priests of diocese of Antigonish; 3 members elected by alumni assocn. By the constitution the members of the bd. must represent every main group in society: miners, steel workers, teachers, profess., people, businessmen, etc. The bd. has authority over all matters of property and finance. The fac. of the univ. has final authority over all academic matters.

The pres. of the univ. is apptd. by the bishop of Antigonish for a 5-yr. term after a consultative vote by the members of the bd. of governors and the members of the univ. fac.

**INCOME (1960-61)** Total: \$1,518,570 (student academic fees, 52.6 per cent; endowments (net), 2.4 per cent; govt. grants, 41.2 per cent; gifts & misc., 3.8 per cent).

**LIBRARY** 80,000 vols.

**LABORATORIES.** Biol., chem., engin., geol., phys.

**CONDY INTERNATIONAL INSTITUTE.** Establd. 1959, to centralize and expand the specialized trig. in soc. leadership provided by the univ., to provide a centre of information and to handle the requests for assistance that come from the emerging countries. Dir. Very Rev. F. J. Smyth.

**ADMISSION** See Appendix III

**ADMISSION TO PARTIAL OR SPECIAL COURSES.** In particular cases students who are not candidates for degrees may be permitted by the cttee. on admissions to enrol in any course from which, in the judgment of the cttee, they will profit.

**FIRST DEGREES.** 4 yrs from jr. matric—BA, BSc, BCom, BSc(Hon), BSc(hons. (in biol., chem., geol., phys.), BScN. Two yrs. (for teachers, 1 yr.'s) residence required for degree. No BA hons. degree.

**HIGHER DEGREES.** BEd, MA in chem., geol. or soc. sci., MA in teaching, MEd, 1 yr. postgrad., MSW, 2 yrs. at Maritime Sch. of Soc. Work (see p. 329) beyond bachelor's degree.

**HONORARY DEGREES.** DLat, LL.D., DSc.

The univ. does not award EXTERMINAL DEGREES.

**DIPLOMAS.** Sr. dipl. in educn. for students who successfully complete 3 academic yrs. in arts, sci. or comm. from jr. matric plus 1 academic yr. of a professional course in teacher training; qualifies for teacher's professional cert. class III (general) of N.S. Jr. dipl. in educn. for students who successfully complete 2 academic yrs. in arts, sci. or comm. from jr. matric plus 1 academic yr. of a professional course in teacher training; qualifies for teacher's license class I (general) of N.S. Soc. leadership, 1 calendar yr. from jr. matric + 8 mos. academic study, and remainder in field work under supervision of extension dept.

**CERTIFICATE.** Engin., 3 yrs.; admits to 4th year of 5-yr. course at Nova Scotia Tech. Coll. and other engin. schs.

**FEES.** Tuition (incl. lab., lib., med. & surg. attendance and hospitalization fees): sci., \$475 p.a.; sci., \$525 p.a. Room and bd., \$608 p.a. in residence (laundry, \$40). Students' union, \$42 extra.

Mt. St. Bernard College offers specialized trig., not leading to a degree or dipl., in arts & crafts, music, dramatics and secretarial sci. (2 yrs.).

**EXTENSION DEPARTMENT.** which sponsors a programme of adult educn. known as the Antigonish movement, is separately staffed and educated by means of study clubs, films, radio programmes and by correspondence. It has vastly improved the economic state of fishermen, farmers and indust. workers in the Canadian maritime provinces by the establd. of co-operatives and credit

unions, and its work has been recog by outstanding foundations which have given substantial assistance. It sponsors various courses on the campus and awards to students a dipl in soc. leadership, on completion of a 2-yr. course on the principles and methods of the extension movement.

General programme of adult educ. chiefly for primary producers and indust workers in the maritime provinces; promotion of credit union and co-operative activities among these groups. Educat work among fishermen of the maritimes under grant from dept. of fisheries. Short courses throughout maritime provinces. Leadership course and vacation sch for seminarians conducted at Antigonish. About 800 adults in 9 communities in indust. classes connected with the people's sch. programme. Specialists working on co-operative housing, land settlement and labour educn. Extension library and film service.

SUMMER COURSES. St. Francis Xavier summer sch., vacation sch., in soc. action. Various short courses sponsored by the extension dept. of the univ.

SCHOLARSHIPS, ETC. Knights of Columbus scholops, 10 to 12 annually, \$200 each, 10 Rev R. Melius scholops of \$200 and under each, 4 French scholops, annually, \$200 each, various other scholops, bursaries and prizes.

The dept of educn of NS offers 10 scholops of \$500 each tenable by grads who intend to take the BEd course of the univ. The govt of NS is prepared to make loans up to \$500 and to pay tuition fees for the yr. of professional try to teachers-in-try who agree to teach in the public schs of NS for 2 yrs.

RESIDENCE. Cameron Hall (200 students), McKinnon Hall (195), Xavier Hall (150), Mockler Hall (150), Sanson Hall (50), Acadia Lodge (50), new residence (310). See also 'Fees', above.

PHYSICAL TRAINING. Gymnasium, skating rink; stadium.

MILITARY TRAINING. Establd to select and train suitable young univ students for commissioned rank in the regular and reserve components of royal Canadian navy, Canadian army, and R.C.A.F. respectively univ naval trg division (U.N.T.D.), Canadian officers' trg corps (C.O.T.C.) and univ reserve trg plan (U.R.T.P.).

The STUDENTS' UNION is the recog. means of communication between the fac and the student body. It is designed to co-ordinate and control all extra-curricular student activities. Every student is a member.

PUBLICATIONS. *Calendar* (May); *Xaverian*, weekly, and *Xaverian Annual* (students' publica.); *Alumni News*, 3 times yearly.

## THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS. Bldg completed: residential bldg to accom 310

univ., 13, 201, 251, secretarial studen, 73, sp course, 25. Total 1965

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	1180	101
Women	385	101
Total	1565	202

Distribution by Faculties, etc. *Arts*, 634, *comm*, 222, *educn*, 181; *engin*, 69; *house econ.*, 64; *house sci.*, 31; *master's programme*, 2,

Included in the figures above are: —

Postgraduate students, 37

New admissions, 533.

Students from other countries, 219 (Country from which largest number came: U.S.A., 171)

DEGREES AWARDED (1960-61). MA, 2; BA, 68; BSc, 26, BSc hon, 12, BScN, 1; BSc (HSc), 9, BCom, 25, BEd, 43, MSW, 5.

DIPLOMAS AND CERTIFICATES AWARDED (1960-1961). *Educn*, 35, *engin*, 32, 400 leadership, 21.



# SAINT JOSEPH'S UNIVERSITY

Founded 1864; institution for Civil Engineering, Commerce, Education,  
Sciences, founded 1953

PRESIDENT, BOARD OF GOVERNORS—Rev. C. CORMIER, SThL *Montr.*, Hon. LLD *New Br.*, BScSoc *Laval*

VICE-PRESIDENT, BOARD OF GOVERNORS—Rev. R. LAVOIE, BA

SECRETARY, BOARD OF GOVERNORS—Rev. D. GAUDET, BA

## ARTS

Postal Address: St. Joseph, New Brunswick, Canada

Telephone: Moncton Exchange 758-2511

SUPERIOR—Rev. R. LAVOIE, BA

ASSISTANT SUPERIOR—Rev. T. BLANCHARD, BA LTh

SECRETARY-GENERAL—Rev. D. GAUDET, BA

DEAN OF STUDIES AND REGISTRAR—Rev. R. ROSSIGNOL, BA

DEANS—ENGLISH—Rev. J. MACDONALD, BA, FRENCH— . . . ; LATIN—Rev. L. GAUDET, L&L *Montr.*

TREASURER—Rev. B. A. MORIN, BL BEd

LIBRARIAN—Rev. B. O. CORMIER

## TEACHING STAFF

Accounting		French	
Richard, E., BA BScCom	Prof.	Gaudet, Rev. L., L&L <i>Montr.</i>	Prof.
Astronomy		Blanchard, Rev. T., BA LTh	Prof.
Blanchard, Rev. T., BA LTh	Prof.	Cyr, R., BA BEd	Prof.
Classics: Latin		Gagnon, Rev. J.-G., BA	Prof.
Guidance			
Gaudet, Rev. L., L&L <i>Montr.</i>	Prof.	Desjardins, Rev. R. L., BA MEd	
Blanchard, Rev. T., BA LTh	Prof.	LOP <i>Laval</i>	Prof.
MacDonald, Rev. J., BA	Prof.		
Soucie, Rev. R. E., MA	Prof.		
Kington, Rev. L., BA	Prof.		
Waugh, Rev. O., BA <i>St.M.</i> , MA <i>Notre Dame</i>	Prof.		
Mathematics			
		Soucie, Rev. R. E., MA	Prof.
		LeBlanc, R., MSc <i>Notre Dame</i>	Prof.
		Leger, R., BSc	Prof.
Physics			
		Dionna, Rev. R., BA	(on leave) Prof.
English			
MacDonald, Rev. J., BA	Prof.		
Kington, Rev. L., BA	Prof.		
Waugh, Rev. O., BA <i>St.M.</i> , MA <i>Notre Dame</i>	Prof.		

## CIVIL ENGINEERING, COMMERCE, EDUCATION, SCIENCES

Postal Address: 80 Church St., Moncton, New Brunswick, Canada

Telephone: Moncton EV 4-5549

SUPERIOR—Rev. L.-M. DAIGLI, LPh *Laval*

ASSISTANT SUPERIOR—Rev. C. CORMIER, SThL *Montr.*, Hon. LLD *New Br.*, BScSoc *Laval*

SECRETARY—REV. O. FERGUSON, LScCom *Mont.*

DEAN OF STUDIES—REV. R. ROSSIGNOL, BA

DEANS—CHEMISTRY—B. T. NEWBOLD, BSc *Mont.*, DSc *Laval*; COMMERCE—REV. O. FERGUSON, LScCom *Mont.*; EDUCATION—REV. R. L. DESJARDINS, BA MEd LOP *Laval*; ENGINEERING—D. MCCREA, BSc *New Br.*; PHYSICS—R. J. LEBLANC, MSc *Notre Dame*; SCIENCES—REV. J. B. CORMIER, BA LSc *Mont.*

LIBRARIAN—R. LEBLANC, BA

## TEACHING STAFF

[† = Part-Time]

<b>Accounting</b>		<b>Geology</b>	
Bourque, L., LSc <i>Laval</i>	Prof	Marcotte, N., BSc <i>Laval</i>	Prof.
Cadioux, J., LScCom <i>Mont.</i>	Prof	<b>Guidance</b>	Prof
Ferguson, Rev. O., LScCom <i>Mont.</i>	Prof		
<b>Astronomy</b>		Tippett, R.	
Cormier, Rev. J. B., BA LSc <i>Mont.</i>	Prof	<b>Human Anatomy</b>	
<b>Biology</b>		Gronzin, G., MD	† Lectr.
Rossignol, Rev. R., BA	Prof	<b>Income Tax</b>	
<b>Chemistry</b>		Melanson, R., MScCom	† Lectr.
Rossignol, Rev. R., BA	Prof	<b>Mathematics</b>	
Cormier, Rev. J. B., BA LSc <i>Mont.</i>	Prof	Rossignol, Rev. R., BA	Prof
Newbold, B. T., BSc <i>Mont.</i> , DSc <i>Laval</i>	Prof	LeBlanc, R. J., MSc <i>Notre Dame</i>	Prof
<b>Civil Engineering and Surveying</b>		Cormier, Rev. J. B., BA LSc <i>Mont.</i>	Prof
Bourque, Rev. P., BA MSc <i>M.I.T.</i>	Prof	<b>Mechanics</b>	
McCrea, D., BSc <i>New Br.</i>	Prof.	Marcotte, N., BSc <i>Laval</i>	Prof.
Marcotte, N., BSc <i>Laval</i>	Prof.	Cowan, G., BSc <i>Dal</i>	† Lectr.
<b>Commercial Law</b>		<b>Mental Hygiene</b>	
Léves, C. E., QC, BA BCL	† Lectr.	Cormier, G.	Prof
<b>Diction</b>		<b>Mine Research</b>	
Nelson, Mrs. Léone Boudreau, BEd	† Lectr.	Pogani, G.	Prof
<b>Drafting</b>		<b>Modern Languages</b>	
Blanchette, C., BA BArch <i>Mont.</i>	† Lectr.	Tuillon, Rev. B. L., MA BEd <i>Mont.</i>	Prof
<b>Economics</b>		LeBlanc, Lorraine, MA <i>Cal</i>	† Lectr
Young, A., LScSoc <i>Laval</i>	Prof.	Jones, Mrs. Cécile	† Lectr
<b>Electricity</b>		<b>Philosophy</b>	
LeBlanc, R. J., MSc <i>Notre Dame</i>	Prof	Drayle, Rev. L.-M., LPh <i>Laval</i>	Prof
Lundy, L., BA BSc <i>Laval</i>	† Lectr.	Richard, Rev. A., BA	Prof
<b>English</b>		Saucy, A., LPh	Prof.
Campbell, S., BA BEd	Prof.	<b>Physics</b>	
Saucy, A., LPh	Prof	LeBlanc, R. J., MSc <i>Notre Dame</i>	Prof
<b>Financial Mathematics</b>		<b>Psychology</b>	
Lang, C., BScCom	† Lectr	Desjardins, Rev. R. L., BA MEd	Prof
Bourque, P., MSc <i>Laval</i> , CA	† Lectr.	LOP <i>Laval</i>	
<b>French</b>		<b>Religion</b>	
Chamard, Rev. M., LsL <i>Paris</i>	Prof	Ferguson, Rev. O., LScCom <i>Mont.</i>	Prof.
Gagnon, Rev. J.-G., BA	Prof.	Chamard, Rev. M., LsL <i>Paris</i>	Prof.
		<b>Statistics</b>	
		Ferguson, Rev. O., LScCom <i>Mont.</i>	Prof.

# AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, 96 Ave. Norwood, Moncton, N.B. (tel. EV 4-4073). Founded 1946. J. coll. in arts. Superior—Rev. C Johnson, BA.

COLLEGE NOTRE-DAME D'ACADIE, 343 Archibald St., Moncton, N.B. (tel. EV 4-4121). Founded 1943. Courses in arts for BA, in music for BMus and in home econ. for BScEcon. Dipl. in secretarial sci. (1 yr. from jr. matric.) Superior—Rev. Mother Juliette, MA.

ÉCOLE DE PÉDAGOGIE, 80 Church St., Moncton, N.B. Rev. R. L. Desjardins, BA MEd LOP. Local, Rev. Br. L. Tullon, MA BEd. Month courses leading to BEd., also summer courses.

MEMPHIS SEMINARY, Saint Joseph, N.B. (tel. Memmamcook Exch. TU 8-2584). Founded 1948. Courses in arts for BA. Superior—Rev. P. J. MacDonald, BA.

SACRED HEART COLLEGE, Sagardi-Dassal, East Pakistan. Founded 1953. Courses in arts for BA. Superior—Rev. A. McChie, BA. Month.

SAINT THOMAS SEMINARY, Saint Joseph, N.B. (tel. Memmamcook Exch. 8-2511). Founded 1948. Courses in arts for BA. Superior—Rev. A. Doucet, BA.

SCHOOL OF HOME ECONOMICS, Saint Joseph, N.B. (tel. Memmamcook Exch. 8-2556). Founded 1948. Courses for cert. in home econ. Superior—Rev. Sister Marie-de-Louise.

SEMINARY OF OUR LADY OF PERPETUAL HELP, 476 Elmwood Drive, Moncton, N.B. (tel. EV 4-9327). Founded 1956. Junior coll. courses leading to BA. Superior—Rev. G. LeBel.

# GENERAL INFORMATION

Founded in 1864, the instn. was incorporated under the name of 'The Coll. of Saint Joseph', with the power to confer degrees, by an act of the New Brunswick legislature in 1868. In 1898, the original charter was amended, the name being changed to 'The Univ. of Saint Joseph's Coll.'. In 1906, Oxford Univ. admitted St. Joseph's Coll. to the privileges of the statute of colonial univs. In 1928 the legal title was changed to 'Saint Joseph's Univ.'. The univ. is conducted by the fathers of Holy Cross.

CONSTITUTION. Since the opening of the new bldg in Moncton in 1953 for sci., comm., civil engin and educ., St. Joseph's Univ. has been governed by a single corporation. There is a general counc. on studies, comprising the pres. and the dean of studies of each instn. as members ex officio. These officers outline the general curriculum of studies for the univ. For the rest, each instn. has its own budget and is administered as if it were a separate coll.; each has a bd. of governors, comprising the pres., the vice-pres., the dean of studies, the sec. and two local councillors. On admin. problems the powers of members of the counc. are limited to consultation; they have full power on financial problems. The local counc. on studies is composed of the pres. of the instn., the dean of studies and the deans of the depts. The deans of the depts. are responsible to the dean of studies, who is responsible to the pres. of the instn.

INCOME (1961-62). Govt. grants: provincial, \$33,000; federal govt., \$125,000.

UNIVERSITY PRESENT. Fac. of arts is situated at St. Joseph's. Chief admin. offices are in Moncton, in the centre of which the univ. also owns an area of 80 acres, where a residence for men was opened in 1939. There is a temporary

classroom bldg. pending further devel. on the campus.

LIBRARY. 50,000 vols. at St. Joseph's; 10,000 vols. at Moncton.

MUSEUM. Natural hist. and Acadian hist. The library, museum and archives, the first instn. of its kind organized for the benefit of the Acadian population, has specialized in, and contains valuable collections on, the hist. of Acadia.

LABORATORIES. Biol., chem., phys.

DEPARTMENTS. High sch. level: academic, comm., agricultural and home econ. a high sch. affiliated to the univ. offer courses leading to jr. matric., on completion of which students may be admitted to the coll. course. Coll. level: arts, comm., educ., engin., home econ., music, sci.

ADMISSION. See Appendix III.

FIRST DEGREE. 4 yrs. from jr. matric.—BA, BSc, BScEcon, BMus, BSc in home econ. (BScEcon).

HIGHER DEGREE. Postgrad. course of 1 yr., or equivalent—BEd, MA. 1 yr. from BEd—MEd.

HONORARY DEGREE. PhD, DSc, DScEcon, LL.D.

CERTIFICATE in engin. (3 yrs. from jr. matric.), admits to 4th yr. of 5-yr. course at Univ. of New Brunswick.

FEES (subject to increase during 1964). For tuition only: arts, \$175 p.a.; comm., \$200 p.a.; sci. and engin., \$250 p.a. For bd., residence and tuition: \$300 plus p.a. Discretion: \$5 to \$20.

ACADEMIC YEAR. Sept. to mid-May.

SUMMER COURSES. Lead to BA, BEd, MEd.

LANGUAGE OF INSTRUCTION. French and English.

RESIDENCE. Accommod. for 500 male students. PUBLICATIONS. Calendar (June). Students: *Leaves* (monthly).

## THE YEAR 1961

## Statistics

STUDENTS NUMBERS, 1961-62 \*

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	44 <sup>1</sup>	2
Women	8	—
Total	449	2

Distribution by Faculties Arts, 223, comm, 125; *educn*, 15, *engin*, 57, *sci*, 27

Included in the figures above are —

New admissions, 177

Students from other countries, 21 (all from U.S.A.)

DEGREES AWARDED (1960-61) Arts BA, 39  
Comm.: BScComm, 23, *Educn* MEd, 3, MEd,  
13 *Sci* BSc, 3

CERTIFICATES AWARDED (1959-60) Engin, 7

\* Not included in these figures are part-time students who attend *evg* classes only

# SAINT MARY'S UNIVERSITY\*

Founded 1841, previously established as St. Mary's College, 1802

Postal Address: Halifax, Nova Scotia, Canada

Cable and Telegrams: St. Mary's University, Halifax, Nova Scotia

Telephone: Halifax 422-5421

CHANCELLOR—Most Rev. J. G. BERRY, DD MSc C.U.A., Archbishop of Halifax

PRESIDENT—Very Rev. C. J. FISCHER, SThL Greg.

VICE-RECTOR—Rev. E. M. BROWN, PhD Greg.

DEANS—ARTS AND SCIENCES—Rev. W. A. STEWART, SThL Greg (Philos.), COMMERCIAL—H. G. BLAZLEY, BComm (Acctg.), EDUCATION—Rev. D. FOGARTY, SThL Greg, MA PhD Col; LINGUISTICS—J. L. RYAN, BE N.S.T.C., BSc; DEAN OF MEN—J. J. HENNESSY, DEAN OF STUDIES—Rev. W. A. STEWART, SThL Greg (Philos.)

REGISTERAR—Mrs. SARA JUDD

BOBBER—D. J. MARKLEY

LIBRARIAN—Rev. A. COTTER, SThL Greg.

## TEACHING STAFF

(† = Part-Time)

Accounting		Chemistry	
Beasley, H. G., BComm	Assoc. Prof.	Murphy, Rev. J. W., MA PhD Tor.	Assoc. Prof.
Schandi, C. W., DrJur Bnd., CA	Asst. Prof.	Sabean, A. T., BA MSc McG.	Assoc. Prof.
Hill, F. J., BComm	† Instr.	Bridge, W., PhD Ont.	† Instr.
Dixon, C., BComm, CA	† Instr.		
Anthropology		Economics	
Stapleton, Mrs. Sylvia, MA Syd.	† Instr.	Voostermans, J. J., EconDrs Tyllweg	Asst. Prof.
		Schandi, C. W., DrJur Bnd., CA	Asst. Prof.
		George, R. E., BSc Lond., MA Brit.	Asst. Prof.
Archaeology		Education	
Loewenstein, J., PhD Vienna, FRAI	Prof.	Fogarty, Rev. D., SThL Greg., MA	
Art		PhD Col.	Assoc. Prof.
Crake, Rev. A., PhD Bnd.	Prof. Emeritus	Labelle, Rev. H. J., MA St Louis,	
Zerand, J.	† Instr.	PhD Greg.	Assoc. Prof.
Astronomy		Dockill, F. J., BA BEd	Lectr.
Burke-Gaffney, Rev. M. W., BA Montr.,		Weenen, D. J., BA Montr., MS Pasadena	Lectr.
BE N.U.L., PhD Georgetown,		Conrad, A., BEd MA	† Instr.
DEng N.S.T.C.	Prof.	Earle, J., BEd Dal., MA	† Instr.
		Harrington, M., BA BEd	† Instr.
		Kesting, M., MA LLB Dal., Hon. LL.D.	† Instr.
Biology		Engineering	
Rogo, A., PhD Madrid	Asst. Prof.	Ryan, J. L., BE N.S.T.C., BSc	Assoc. Prof.
Rogo, Mrs. Enriqueta, MSc Madrid	Lectr.	Sheehan, B. S., BE N.S.T.C. (on leave)	Lectr.
Business Administration		Winnar, D., BE N.S.T.C., MSME Purdue	Lectr.
Hammann, R., MBA Harv., BComm	Lectr.	Bowen, H. G., BE N.S.T.C.	† Instr.
		Beck, R., BE N.S.T.C., BSc	† Instr.
		Hockman, P. J., BE N.S.T.C., BSc Dal.	† Instr.

\* Member of the Association of Universities of the British Commonwealth

**English**

Flynn, E., MA Dal (on leave) Asst. Prof.  
 Hallott, G., MA Dal Asst. Prof.  
 Yeoman, A. R., MA Dal, BD KC N.S.  
 MacKinnon, K., BSc St Dun., MA Dal Asst. Prof.  
 Lectr.

**French**

Loewenstein, J., PhD Victoria, FRAI Assoc. Prof.  
 Devine, Rev. F. J., BA BPh Oit, SThL Greg, MA McG, Dipl École Sup de Prép Assoc. Prof.  
 Collard, Rev. A., BA Montr., SThL Greg Asst. Prof.  
 Rountree, S. V., MA Dal., BLS McG. Instr.

**Geology**

Simpson, D. H., MSc PhD McG. Assoc. Prof.

**German**

Bachter, Miss J., MA Tor. Instr.

**Gregorian Chant**

Mills, Rev. J. E., BMus Montr. Instr.

**History**

Healey, Rev. E. J., MA Tor. Assoc. Prof.  
 McCormack, J. R., MA Dal., PhD Tor. (on leave) Asst. Prof.  
 O'Keefe, Rev. C. B., MA PhD Tor. Asst. Prof.  
 Hutton, Elizabeth A., MA Dal Instr.

**Latin**

O'Donnell, Rev. M. J., SThL Greg, BA Montr. Assoc. Prof.  
 Georgins, J. N., DLitt Malaw Asst. Prof.

**Mathematics**

Burke-Gaffney, Rev. M. W., BA Montr., BE N.U.L., PhD Georgetown, DEng N.S.T.C. Prof.

Buyco, E. H., BSc Saint Thomas, PhD Purdue Asst. Prof.  
 Clarke, Rev. W. T., BA Gonzaga, BSc Tor. Lectr.  
 Warner, D., BE N.S.T.C., MSME Purdue Lectr.  
 Friedlandes, Mrs. Albia, PhD Patwa Instr.

**Philosophy**

Labellie, Rev. H. J., MA St Louis Assoc. Prof.  
 McGarry, Rev. J. J., BA Laval, PhD Greg. Assoc. Prof.  
 Monahan, A. P., MA PhD Tor., LMS Pontif. Inst Tor. Assoc. Prof.  
 Stewart, Rev. W. A., SThL Greg. Assoc. Prof.  
 Hoffman, Rev. G. R., MA Tor., STL Phil Greg. Asst. Prof.  
 Cronin, F. R., MA Fordham Instr.

**Physics**

Morday, U. S., MSc Rock Asst. Prof.  
 Tenscho, F., BA MSc Dip Phys Eau Asst. Prof.

**Political Science**

Dalton, W., MA Tor., PhD Oit Asst. Prof.  
 Tuchak, W., LL.M. Lewis, MA Col., PhD Colorado Asst. Prof.

**Psychology**

Marshall, R. C., MA IV Ont. Lectr.

**Sociology**

Rourke, Rev. D., MA Seattle Assoc. Prof.

**Theology**

Gallagher, Rev. G., SThL St. Louis, MS Fordham Asst. Prof.  
 Collard, Rev. A., BA Montr., SThL Greg. Asst. Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Dir. of Adult Studies: Rev. M. J. Belair,  
 MA Chic. Dir. of Athletics: R. Hayes Student  
 Counsellor. Rev. M. J. O'Donnell Asst.  
 Librarian: S. V. Rountree, MA Dal., BLS McG

Asst. to the Pres.: J. Stirling Dorman, MA Oit  
 Asst. to Dean of Studies: K. J. Cleary, MA  
 Univ. Reserve Trg. Officer: Capt. G. E. M.  
 Ruffee

**AFFILIATED INSTITUTIONS**

IGNATIUS COLLEGE, Guelph, Ont. Founded  
 1913; enrolment limited to members of Society  
 of Jesus. Jr. coll. in fac. of arts. Principal—Rev.  
 J. J. Farrell.

ROSA COLLEGE, 3125 Bayview Avenue, Willow-  
 dale, Ont. Founded 1929; enrolment limited to  
 members of Society of Jesus. Principal—Rev.  
 E. F. Sheridan.

## ASSOCIATED INSTITUTIONS

**HALIFAX SCHOOL OF JOURNALISM**, St Mary's Univ, Halifax, N.S. (tel. 422-6421). The sch. is a joint undertaking of St Mary's Univ, the Univ of King's Coll, Mt St Vincent Coll, the Halifax *Chronicle-Herald* and radio station CJCH. The sch., which has its own bd of governors with 2 reps. from each instn., grants a dipl. in journalism 3 yrs. after jr matric. Director—G Hancock.

**MARITIME SCHOOL OF SOCIAL WORK**, Halifax, N.S. (tel. Halifax 422-5162). Founded 1941. Provides 2 yrs. 'professional' trg. leading to degree of Master of Social Work (MSW) of St Mary's for approved grads of St Mary's and other recog. univs. Dir.—L. T. Hancock, MA, Chm. & K.C.N.S., BSW, MCG.

## GENERAL INFORMATION

In 1802, Rev Edmund Burke founded Saint Mary's Coll. An act of the legislature of Nova Scotia passed in 1845 and confirmed on several occasions conferred full univ. powers. All through its history, Saint Mary's has been under the direction of groups of Roman Catholic clergy. The secular clergy, the brothers of the Christian Schools and the Christian brothers of Ireland have all had charge of the admin. In June 1940, on the invitation of Most Rev. J. T. McNally, archbishop of Halifax, the Jesuit fathers of Upper Canada assumed direction of the coll. A new property was purchased in 1943, and on it was raised the new structure which was opened in Sept. 1951. In 1952 the name was officially changed to Saint Mary's Univ.

**CONSTITUTION** The archbishop of Halifax is, *ex officio*, chancellor of the univ. Under his chairmanship, the bd. of govs. consists of vice-chancellor and 20 fellows, the pres. and vice-pres. of the univ. are *ex-officio* members. The bd. of govs. acts chiefly in an advisory capacity. Financial responsibility is vested in the Roman Catholic episcopal corporation of Halifax, and the univ. is administered and directed by the fathers of the Upper Canada province of the Soc. of Jesus.

**INCOME** (1960-61) Total: \$758,352 (fees, 32 per cent; federal and provincial grants, 15 per cent; donations, 20 per cent; auxiliary enterprises, 30 per cent; other sources, 3 per cent).

**LIBRARY** 35,000 vols.

**LABORATORIES** Biol., chem., electronics, engn., geol., phys.

**ADMISSION** See Appendix III.

**FIRST DEGREES** 4 yrs. from jr matric.—BA, BSc, BComm. BA honors may be taken in econ., French, hist., Latin, philos., pol. sci.; BSc honors in chem.; BComm can also be awarded with honors.

**HIGHER DEGREES** BTh (bachelor of theol.), 1 yr. after BA, MA in theol., 4 yrs. after BA; MSW, MA in educn., 2 yrs. after BA; BEd, 1 yr. after BA or other bachelor's degree. Courses of instruction for STB are given at Jesuit

seminary (Regis Coll.) in Toronto, open to members of Society of Jesus only (see 'Affiliated Instns.', above); courses of instructn. for MSW at Maritime Sch. of Social Work, Halifax (see 'Assoc. Instns.', above), open to grads. of any univ. Also LL.D., LittD., DCL, honorary degrees only.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS** Engn., journalism, 3 yrs. from jr matric. The dipl. in engn. enables students to complete a degree course in engn. at Nova Scotia Tech. Coll., and certain other univs, after a further 2 yrs.

**STUDY LEAVE** is granted to staff members after 5 yrs.' permanent appt.

**FEES** Tuition, arts, \$120 p.a.; comm., \$120 p.a.; sci., \$475 p.a.; engn., \$500 p.a. General fee, \$45, incl. registration fee, library, athletics, health service and students' council.

**ACADEMIC YEAR** Sept. to May; 2 semesters of 14 wks. each.

**EVENING DIVISION** Evg. courses provided for men and women who wish to obtain BA, BSc or BComm. Degree work can be completed by evg. courses. In addn., 5 series of 10 lectures offered at low cost for interested members of public; no academic credit for these lectures.

**SUMMER SESSION** A 7-wk. session of the univ. during July and August; courses offered in arts and comm. for univ. credit. No degree can be taken by summer session courses only.

**ENTRANCE SCHOLARSHIPS** Include 19 Parish scholrs., 10 Knights of Columbus scholrs. and 15 univ. scholrs.

**GRADUATE ASSOCIATIONS** Grad. soc., grads. of St Mary's eligible. Alumni assocn., all former St. Mary's students eligible.

**RESIDENCE** Accom. available for 230 students. Room and board, \$565-\$590 p.a.

**MILITARY TRAINING** Canadian officers' trg.

corps, univ naval sig. division. Royal Canadian  
air force summer sig. and subsidization schemes

STUDENT HEALTH SERVICE Includes phys.  
exam. and X-ray at registration. Infirmary in  
residence; campus physician.

STUDENTS' COUNCIL. Pres. and vice-pres

elected by student body. Athletic assocn.,  
society, debating soc.

PUBLICATIONS Calendar (March); Extension  
Dept. Calendar; Sch. of Educ. Programmes,  
Adult Studies Programme Students' publications;  
Journal (fortnightly)

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	647	135
Women	9	167
Total	656	302

Distribution by Faculties Arts, 357, 400W, 220;  
220; Comm, 83; Eng, 111; Sci, 111, 100  
work, 8, theol, 68 Total: 958

Included in the figures above are --

Postgraduate students, 159

New admissions, 375

Students from other countries, 145 (Countries  
from which largest numbers came U.S.A., 97,  
W. Indies, 15, Hong Kong, 8)

DEGREES AWARDED (1960-61) Arts BA, 34  
Comm. BComm, 17 Educ. MA, 13, BEd,  
22 Sci. BSc, 9 Soc. work. MSW, 5 Theol  
STB, 3; MA, 8.

DIPLOMAS AWARDED (1960-61) Engin: 18



# UNIVERSITY OF SASKATCHEWAN\*

Founded 1907

Postal Address: Saskatoon, Saskatchewan, Canada  
Cables and Telegrams: University of Saskatchewan, Canada  
Telephone: Saskatoon CH27671

VISITOR—The Hon. F. L. BASTIDG, QC, LLB Tor.

CHANCELLOR—F. H. AULD, MBE, Hon. LL.D.

CHAIRMAN OF GOVERNORS—H. C. PENDER, BA MBA Harv.

PRESIDENT AND VICE-CHANCELLOR—J. W. T. SPINKS, MBE, PhD DSc Lond, Hon. LL.D. Can, Hon. DSc Assam, FRSCan

VICE-PRESIDENT (ACADEMIC)—J. F. LEBBY, BLitt DPhil Oxon, Hon. DLitt StFX & Ott, Hon. DPhil Lond, Hon. LL.D. Assam, Hon. DCL StM, MA (Classics)

VICE-PRESIDENT (ADMINISTRATION)—A. C. McBOWN, BSc

DEANS—AGRICULTURE—V. E. GRAHAM, MS PhD Wtr, BSA (Agric. Botanol); ARTS AND SCIENCES—J. F. LEBBY, BLitt DPhil Oxon, Hon. DLitt StFX & Ott, Hon. DPhil Lond, Hon. LL.D. Assam, Hon. DCL StM, MA (Classics); COMMERCE—T. H. McLEOD, BA Manst., AM Indiana, MPA PhD Harv. (Acctg. & Comm.); EDUCATION—J. B. KIRKPATRICK, EdD Col., BA Med, ENGINEERING—J. B. MAUDSLEY, MBE, BSc McG, PhD Prin, FRSCan (Geol. Scis); GRADUATE STUDIES—B. W. CURRIE, PhD McG, MSc, FRSCan (Phys); HOME ECONOMICS—HOSPITALITY—BA Tor, MSc Col., PhD Miss; LAW—O. E. LANG, BCL Oxon, BA LLB, MEDICINE—R. W. BRIDG, BSc K.C.N.S., MSc MD CM Dal, DPhil Oxon, PHARMACY—W. C. MACAULAY, MS Pharm, Hon. DPharm Mont, BSP. REGINA CAMPUS: PRINCIPAL AND DEAN OF ARTS AND SCI.—W. A. RUSSELL, BA BSc Manst., PhD Stan, MSc

REGISTRAR—N. K. CRAM, CD, BA BEd

CONTROLLER—J. A. PRINGLE, ED, BAoc

LIBRARIAN—D. C. APPELT, MA Alta., ABLS Mich

## TEACHING STAFF

(†=Part-Time)

### Accounting and Commerce

McLeod, T. H., BA Manst., AM Indiana, MPA PhD Harv. Prof.  
Goodspeed, George, MBA Chic, BAoc Prof.  
Lamson, S., MBA W. Ont., BComm Assoc Prof.  
Barber, L. I., MBA Calif., BA BComm Asst. Prof.  
Parker, J. R. E., BCom Dal. Asst. Prof.  
Wainman, P. Y., MA Tor. Asst. Prof.  
Bonham, D. H., BA BComm LLB, CA Asst. Prof.  
Muir, R. R., MPA Miss., BComm Asst. Prof.  
McCarthy, R. G., BAoc, CA Asst. Prof.  
Boehm, D. C., MBA Mich., BComm † Lectr.  
Mielke, C. A., DPA Tor., BComm Inst.

Agriculture, see below

Anatomy, see Medicine

### Art

Snelgrove, G. W., AM Chic, PhD Lond. Prof.  
Barnstein, E., BS Milwaukee State Teachers', MS Wis. Assoc. Prof.  
Rogers, O. D., MS Wis. Lectr.

Bacteriology, see Medicine

### Biochemistry

McArthur, C. S., BA W. Ont., MSc PhD Tor. Prof.  
Kline, Dorothy K., PhD W. Ont., MA Assoc. Prof.  
Woodford, V. R., BS Charleston, MSc PhD McG. Assoc. Prof.

### Biology

Shaw, M., MSc PhD McG. Prof.  
Rempel, J. G., PhD Can., MSc, FRSCan Prof.  
Vanderpool, T. C., MSc McG. Prof.

\* Member of the Association of Universities of the British Commonwealth



**History**

- Newby, Hilda, PhD *Missw.*, Hon. LL.D. *Tor.*,  
MA, FRSCan Prof.  
Murray, Jean E., MA *Tor.* & *Sask.*, PhD  
Cinc. Assoc. Prof.  
Graham, W. R., BA *Manit.*, MA PhD *Tor.*  
Assoc. Prof.  
Finn, Rev. R. W., BA *W. Ont.*, MA *Tor.*,  
LMS *Postf. Inst.*, *Tor.* Assoc. Prof.  
Lamb, I. N., MA *Tor.*, PhD *Manit.* Asst. Prof.  
Pry, M. B., BSc Lectr.

**Home Economics**

- Hant, Hope H., BA *Tor.*, MSc *Cal.*,  
PhD *Manit.* Prof.  
Rowles, Edith C., MSc *Wit.*, EdD *Cal.*,  
BHS Assoc. Prof.  
Guttfeld, Marjorie, BSc *Manit.*, AM *Cal.*  
Assoc. Prof.  
Harris, Marjorie, BA (HSc) *Tor.* Asst. Prof.

**Horticulture, see Agriculture, below****Law**

- Lafu, O. E., BCL *Oxon.*, BA LLB Assoc. Prof.  
Williams, D. C., BA *Wit.*, LLB MA *Canb.*,  
LLM *Calif.* Assoc. Prof.  
Chellins, R. I., BA LLB B. Cal., LL.M.  
Assoc. Prof.  
Tellefsen, E. A., BCL *Oxon.*, BA LLB  
Asst. Prof.  
Stanger, B. L., BCL *Oxon.*, BA LLB Asst. Prof.  
Schmoeper, D. A., BA LLB Asst. Prof.  
Tucker, W. A., QC, BA *Manit.*, LLB Lectr.  
Maguire, P. H., QC, BA LLB Lectr.  
Carter, R. C., QC, BA LLB Lectr.  
Tally, C. F., BA LLB Lectr.  
Taylor, G. J. D., QC, LLB Lectr.  
McKercher, R. H., BA LLB Lectr.

**Mathematics**

- Guinand, A. P., BSc *Adel.*, DPhil *Oxon.* Prof.  
Miller, C. E., MA PhD *Tor.* Prof.  
Blum, B., PhD *Harvard* Assoc. Prof.  
Shkior, N., BA *Manit.*, MA *Tor.* Assoc. Prof.  
Thomson, G. H. M., BSc *Manit.*, MS  
PhD *Wit.* Assoc. Prof.  
McEwen, A. C., BSc Asst. Prof.  
Keller, C. E., PhD *Prudhoe*, BEd MA Asst. Prof.  
Kumana, N., BA *Ont.*, PhD *Tulane* Asst. Prof.  
Cuttle, P. M., MA B. Cal., PhD *Oregon*  
Asst. Prof.  
Cuttie, Yvonne, MA B. Cal., PhD *Oregon*  
Sp. Lectr.

**Medicine, see below****Music**

- Adams, M. Prof.  
Reisman, A., MMus *Reich.* Asst. Prof.

**Norwegian, see German****Nursing**

- Kesler, Hazel B., AM *Cal.*, BA  
Prof., Dir. of Nursing Educn.  
Kennen, Hester J., BS AM *Cal.* Prof.  
Wallis, Lucy D., BS AM *Cal.* Prof.  
Hubbert, Dorothy, BS MA *Cal.* Prof.  
Worthing, Elizabeth, BN *McG.* Lectr.  
Crawford, Myrtle E., MA *Cal.*, BSN

Sells, Betty L., BSN

Sexual Lectr.  
↑ Lectr.**Pathology, see Medicine, below****Pharmacy**

- MacAuley, W. C., MS *Pharm.*,  
Hon. DPharm *Manit.*, BSP Prof.  
Jeffrey, J. G., PhD *Wit.*, BSP MSc Prof.  
Wood, J. A., MS PhD *Wash.*, BSP Assoc. Prof.  
Sutcliffe, J. L., MC, MS *Wash.*, BSP Assoc. Prof.  
Challen, S. B., BPharm BSc *PhD Lond.*  
Visiting Asst. Prof.  
Ready, K. A., BSP | Lectr.

**Philosophy**

- Swan, Rev. P. J. M., MA PhD *Tor.* Prof.  
Miller, L., BA B. Cal., MA *Wash.*,  
PhD *Canb.* Assoc. Prof.  
Finn, Rev. R. W., BA *W. Ont.*, MA *Tor.*,  
LMS *Postf. Inst.*, *Tor.* Assoc. Prof.  
Stokes, Rev. T. J., MA *Tor.* Asst. Prof.

**Physical Education**

- Olsen, W. A. R., MS PhD *Ill.* Prof.  
Leicester, J. B., MEd *Manit.*, BA BEd Asst. Prof.  
Nixon, H. R., BPE B. Cal., MS *Indiana*  
Asst. Prof.  
Lawson, Patricia, MA *Oregon*, BA BEd  
Asst. Prof.  
Burgess, D. L., MA *Dunsmuir* Asst. Prof.  
Anderson, C. S., MS *Tennessee* Asst. Prof.

**Physics****Professors**

- Haslam, R. N. H., PhD *McG.*, MA, FRSCan  
Currie, B. W., PhD *McG.*, MSc, FRSCan  
Katz, L., MSc *Que.*, PhD *Cal. Tech.*, FRSCan

**Associate Professors**

- Hunt, D. M., BA *W. Ont.*, PhD *McG.*  
Jones, A. V., MSc N.Z., PhD *Canb.*  
Cormack, D. V., MSc *Alta.*, PhD

**Assistant Professors**

- Skinner, R. O., BA *Tor.*, MS PhD *Cal. Tech.*  
Shepherd, G. G., PhD *Tor.*, BE MSc  
Skervig, H. M., PhD *McG.*, BE MSc  
Kavadas, A. D., DipPhys *Saskatoon*, PhD *Tor.*  
King, J. D., BA *Tor.*, PhD

**Physiology and Pharmacology**

- Jacques, L. B., MA PhD *Tor.*, FRSCan Prof.  
Mills, G. J., BA PhD *Tor.* Prof.  
Sutherland, C. B., BA B. Cal., PhD *Stan.*  
Asst. Prof.

Lapp, J. A., BSc *N Dakota*, MS *Idaho*Salmon, H. A., MB ChB *Bum* Asst Prof**Political Science**Ward, N. M., BA *McM*, MA PhD *Tor* ProfWatt, E. D., MA BEd *W Aust*, PhD *Duke* Asst Prof**Psychology**McMurray, G. A., MA *Bishop's*, PhD *McG* Prof

Rennie, R. A., BA BEd Assoc Prof

Mogenson, G. J., MA Asst Prof

Sydora, D., MSc *McG*, BE Asst Prof**Slavic Studies (including Russian, Polish, Ukrainian)**Andrusyehin, C. H., MA *Mont*, PhD *Tor* ProfBrynak, V. O., MA *Alta* Asst Prof**Sociology**Du Wess, R. E., AB *Bates*, MA PhD *Harv* ProfAbrahamson, E. J., BA *Temple*, MA *Penn.* ProfMontague, Rev. R. M., BA *Tor*, MA *Asson.* Asst Prof**AGRICULTURE****Agricultural Economics**

Van Vleet, H., MSc Barford Hoske Prof

Thou, P. J., PhD *Iowa*, BSA MSc Assoc ProfNicholson, R. C., BSA MSc *Mont*, PhD Asst Prof**Animal Science**Bell, J. M., BSA *Alta*, MSc *McG*, PhD *Corn.* ProfHowell, W. E., BSA *Tor*, MS PhD *Mont.* Assoc ProfWilliams, C. M., MSc *Br. Col.*, PhD *Otagov* Assoc ProfOwen, B. D., MSc *Alta*, PhD Asst Prof**Bacteriology, Agricultural**Graham, V. E., MS PhD *Wu.*, BSA ProfMyba, A. N., MS PhD *Mont.*, BSA Assoc ProfPaul, E. A., MSc *Alta*, PhD *Mont.* Asst Prof**Crop Science**White, W. J., PhD *Mont.*, BSA MSc ProfKnott, D. R., BSA *Br. Col.*, MS PhD *Wit* Assoc ProfLester, E. N., MSc *Alta*, PhD *Wash.* Asst ProfSoulski, F. W., MS *Wash.*, BSA Asst Prof**Dairy Science**Gibson, D. L., MBE, BSA *Mont.*, MS PhD *Mont.* ProfMyhr, A. N., MS PhD *Mont.*, BSA Assoc ProfHumbert, E. S., PhD *Mich. State*, BSA MSc Asst Prof**Horticulture**Nelson, S. H., BSA *Tor*, PhD *Mich. State* Assoc ProfDabbs, D. H., MSc *Alta* Asst Prof**Mechanics, see Agric. Engin., below****Plant Ecology**Coupland, R. T., BSA *Mont.*, PhD *Neb.* ProfDir, R. L., MS *C. U. A.*, PhD *Wit* Assoc Prof**Poultry Science**Rae, W. J., BSA *Mont.*, MSc *Wit* ProfO'Neil, J. B., MSA *Br. Col.* Assoc Prof**Soil Science**Hutchison, W. L., PhD *Mont.*, BSA MSc ProfReinicke, D. A., PhD *Wit*, BSA Assoc ProfPaul, E. A., MSc *Alta*, PhD *Mont.* Asst Prof

St. Amant, R. O. J., BSA MSc Asst Prof

**Veterinary Science**Connell, R., DVM *Tor*, MS *McG* ProfMills, J. L., BVSc *Tor.* Assoc ProfSpalding, J., DVM *Zagreb*, PhD *Lushig* Visiting Asst Prof**Vocational Agriculture, see below****ENGINEERING****Agricultural Engineering**

Symes, O. L., BA BE Assoc Prof

Murray, J. M., MS *Utah*, BE Assoc ProfZoebe, G. C., PhD *Mich. State*, BE Assoc ProfMoysey, E. B., MS *Iowa*, BE Assoc ProfGray, D. M., BSA *Br. Col.*, MSA *Tor*, PhD *Iowa* Assoc Prof

Lestegman, W. P., BE Asst Prof

Straver, R. C., BE Lectr

Burwell, B. N., BE Lectr

**Civil Engineering**

Doughan, A. H., BE Prof

Forsberg, C. R., MSc Prof

Neville, A. M., MSc PhD *Lowd* ProfSmith, C. D., BSc *Alta* Assoc ProfLockie, T. H., BSc *Br. Col.*, MASE *Tor* Assoc Prof

Romm, P., BE Assoc Prof

Noble, C. A., MSc *Alta* Asst ProfWynne, J. M., MSc *Alta* Asst ProfKennedy, J. B., BSc *Wales*, MSc *Tor* Asst ProfTweedell, I. W., MSc *Mont.*, BE Asst Prof

Wright, P. M., BE Asst Prof

Lowe, W. G., BSc *Idaho* LectrWatt, W. G., MSc *Alta* LectrMcCoy, W. B., BEng *McG* Lectr**CANADA**

Demaschuk, L., BSc *Manit.*, MSc *Alta*  
 Nasser, K. W., BA BSc *Berlin*,  
 MSc *Katow*

Lecl. Webb, S. J., DIC, MSc PhD *Lond.* Asst. Prof.  
 Lect. Epp, Marguerite, MSc *Alta*, BSc Lect.  
 Lect. Holden, F. A., MB BS *Lond.* Lectr.

**Electrical Engineering**

Michalanko, A., DIC, BSc(EE) *Manit.* Prof.  
 Assoc. Prof.  
 Ludwig, R. B., BSc *Manit.*, MSc *Ill.* Assoc. Prof.  
 Assoc. Prof.  
 Maksymuk, D., BSc *Manit.* Assoc. Prof.  
 Ratz, H. C., BSc *Tor.*, SM *M.I.T.* Asst. Prof.  
 Cobbold, R. W. C., BSc *Lond.*, MSc Asst. Prof.  
 Fleming, R. J., BE Asst. Prof.  
 Trofimenko, F. N., BE MSc Asst. Prof.  
 Holmjaund, B. A., BE (Biomed. Engin.) Lectr.  
 Wacker, A. G., BSc(EE) *Que.* Lectr.  
 Pratt, H. G., BE MSc Lectr.  
 Tysserlund, H., BA BE Sp. Lectr.

**Geological Engineering**, see Geol. Sci.,  
 above

**Mechanical Engineering**

Mantle, J. B., MS *Ill.*, BE Prof.  
 Staples, W. R., MS *Ill.*, BE Prof.  
 Mann, O., MS *Iowa*, BE Assoc. Prof.  
 Green, G. H., MS *Ill.*, BE Assoc. Prof.  
 Garber, S., BEng *McG.*, PhD *Sheff.* Assoc. Prof.  
 Nikiforuk, P., BSc *Que.*, PhD *Mass.* Assoc. Prof.  
 McDonald, T. W., MSc *Que.* Asst. Prof.  
 Brooks, E. E., BE MSc Asst. Prof.  
 Bosant, R. W., BSc *Manit.*, MSc *Prin.* Asst. Prof.  
 Hamblin, F. D., BSc *Dalh.* Asst. Prof.  
 Whelan, J. M., BE Asst. Prof.  
 North, W. P. T., BSc *Que.* Lectr.  
 Weddum, G. K., MSc Sp. Lectr.

**Petroleum Engineering**

Nord, T. E. W., MA *Camb.* Assoc. Prof.

**MEDICINE****Anesthesiology**

Wyant, G. M., MD *Boiling*, FFARCS Prof.  
 Kilbuck, C. J., MB BCh *N.U.I.* Asst. Prof.  
 Bostres, A. R., MB ChB *Calis.*, FFARCS Asst. Prof.  
 Upham, W. E., MD *W.Ont.* †Asst. Prof.  
 Morgan, M. V., MD *Tor.*, BA †Asst. Prof.

**Anatomy**

Altshul, A., MUDr *Prague* Prof.  
 Fedoroff, S., MA PhD Assoc. Prof.  
 Lee, J. C., BSc MB *Lugan*, MSc PhD Asst. Prof.

**Bacteriology**

Dempster, G., BSc MD *Edin.* Prof.  
 Webb, S. J., MSc PhD *Lond.* Asst. Prof.  
 Goddard, I., DDS *Riga*, PhD Asst. Prof.

**Cancer Research**

Morgan, J. F., BA *MSA Br. Col.*, PhD *Tor.* Prof.  
 Bathie, R., MA *Tor.*, PhD *Edin.* Assoc. Prof.  
 Hrushovets, S. R., BSc *Manit.*, MSc *Alta*,  
 PhD *Tor.* Assoc. Prof.  
 Blair, D. G. R., MSc *Alta*, PhD *Wit.* Lectr.

**Medicine**

Bailey, A. A., MD *Tor.*, MS *Manit.* Prof.  
 Associate Professors  
 Horlick, L., MD CM MSc *McG.*, FRCP(Can)  
 Marunson, J. E., MD CM *Que.*, FRCP(Can)  
 Anderson, J. F. C., MD *Tor.*, BA Hon. LL.D. (†)  
 Bailett, D. M., MD CM *McG.*, FRCP(Can) (†)

**Assistant Professors**

Buchan, D. J., MD *Manit.*, BA, FRCP(Can)  
 Baugh, C. W., MD CM *Que.*  
 Beck, R. N., BCh MD *Que.*, MRCP(Ed)  
 Ashenbarger, E. M., MB BCh *Belf.*, MRCP(Ed)  
 Jaworski, Z. F., MD *Brunel*  
 Bremner, R. M., MD *Tor.* (†)  
 Burckell, C. C., MD *Tor.*, BSc (†)  
 Dundee, J. C., MD *Manit.*, BA (†)  
 Mitchell, D. M., MD *Manit.*, BA (†)  
 Sogerman, H., MD *Manit.* (†)

**Obstetrics and Gynecology**

Brown, A. B., MD CM *Que.*, FRCP(Can) Prof.  
 MacPherson, R. H., BSc *Acad.*, MD  
 CM *McG.*, FRCP(Can) †Asst. Prof.  
 Crocker, K. M., MD CM *McG.*, BA †Asst. Prof.

**Ophthalmology**

Murray, R. G., MD *Tor.*, BA, FRCP(Can) Prof.  
 Drance, S. M., MB ChB *Edin.*, FRCS  
 Genereux, A. G., MD *Alta.* Assoc. Prof.  
 †Asst. Prof.

**Pathology**

Moore, D. F., MD BScMed *Tor.* Prof.  
 Adams, J. W., MD *Tor.* Assoc. Prof.  
 Newell, J. E., MSc MD *Manit.* Assoc. Prof.  
 Radulsky, B., MD *Leam.*, MSc *McG.*,  
 PhD Asst. Prof.  
 Arnett, Janet E., MB BS *Lond.* Lectr.  
 Cunningham, T. A., MB ChB *Glas.* Lectr.

**Pediatrics**

Gerrard, J. W., BA DM *Oxon.*, MRCP Prof.  
 Hady, L. W., MD *Tor.*, BA Asst. Prof.  
 Beckwith, A. E., MD *Tor.* †Asst. Prof.  
 Kinnear, W. S., MD *Tor.*, BSc †Asst. Prof.  
 Goluboff, N., MD *Manit.* †Asst. Prof.

**Physiology and Pharmacology**, see above

**Psychiatry**

McKenachan, D. G., MD Tw.	Prof
Coburn, F. E., BA MD Tw	Prof
Hoffes, A., PhD <i>Mass.</i> , MD Tw., BSA	
MSc	Assoc. Prof.
McDonald, I. M., MD <i>Manit.</i>	Assoc. Prof.
Smith, C. M., MB ChB <i>Glas.</i> , FRCPCan	Asst. Prof.

**Radiology, Diagnostic**

Spencer, E. W., MD <i>Manit.</i>	Prof
Traub, S. P., MD Tw	Assoc. Prof.
MacDonnell, A. B., MD CM <i>Que.</i>	†Asst. Prof.
Becker, A., MD CM <i>McG.</i> , BSc	†Asst. Prof.

**Radiology, Therapeutic**

Watson, T. A., MB ChB <i>N.Z.</i> , DMR	Lead	Prof
Burkell, C. C., MD Tw, BSc	Assoc.	Prof.
Cowan, G. A. B., MB ChB <i>Glas.</i>	Assoc.	Prof.
Brown, Esther M., MD <i>Manit.</i> , BA	Asst.	Prof.
Fedniuk, Sylvia, MA	Asst.	Prof.
Cosmache, D. V., MSc <i>Alto.</i> , PhD	†Lead	

**Rehabilitation Medicine**

Hunt, T. E., MD Tw, FRCPCan	Prof
Cameron, M. G. P., MD Tw, FRCPCan	Asst. Prof.

**Social and Preventive Medicine**

Swanson, A. L., BA <i>Br. Col.</i> , MD CM <i>McG.</i> , MHA <i>Northwestern</i>	†Asst. Prof.
Bedgley, R. F., MA <i>McG. &amp; Yale</i> , PhD <i>Yale</i>	Asst. Prof.
Steele, R., DPH <i>Edm.</i>	Asst. Prof.
Dunlop, M., BSc <i>N.Y.</i> , MB ChB <i>Glas.</i> , DPhil <i>Tor.</i>	Asst. Prof.

Wolfe, S., MD Tw, MPH <i>Cal.</i>	Asst. Prof.
Peacock, P. B., MB ChB <i>DPH Cape T.</i>	†Asst. Prof.

**Surgery**

Nanson, E. M., MB ChB <i>N.Z.</i> , FRCS	Prof.
Paine, K. W. E., MB BS <i>Leeds</i> , FRCS	Assoc. Prof.
Jackson, B. A., MD Tw, BSc, FRCSed, FRCSCan	†Assoc. Prof.
Leddy, J. E., MD CM <i>McG.</i> , BA, FRCSed, FRCSCan	†Assoc. Prof.
Robinson, C. N. L., MD <i>Que.</i> , FRCSCan	Assoc. Prof.
Weder, C. H., MD <i>Alto.</i> , FRCSCan	Assoc. Prof.
Jackman, N. J., MB BS <i>Durk.</i> , FRCS	Asst. Prof.
Campbell, J. M., MD <i>Manit.</i> , BA, FACS	†Asst. Prof.
Haven, G. M. T., MD Tw	†Asst. Prof.
Kunkel, M. G., MD Tw, FRCSCan	†Asst. Prof.
Strick, E. J., MD Tw.	†Asst. Prof.

**EXTENSION**

Ramsay, R., MS <i>Manit.</i> , BSA	Prof., Dir.
Paul, L. C., PhD <i>Iowa</i> , MSc	Prof.
Robinson, D. R., BSA	Assoc. Prof.
Pattillo, Margaret, BSc <i>Acad.</i> , MSc <i>Mich.</i>	Assoc. Prof., Dir. of Women's Work
Wusick, A., BA <i>Br. Col.</i>	Supervisor, Adult Educn. Services

**VOCATIONAL AGRICULTURE**

Stibborn, A. A., BA BSA <i>IED</i>	Assoc. Prof., Dir.
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**ADMINISTRATIVE AND OTHER STAFF**

Supt. of Bldgs.: J. A. Wedgwood, BE, Dir. of  
Correspondence Courses: D. D. Cameron, MA  
PhD, Alumni Sec. F. Lovell, BComm, Dir.,

Centre for Community Studies: W. B. Baker,  
BSA.

**CONSTITUENT COLLEGES**

UNIVERSITY OF SASKATCHEWAN, REGINA  
CAMPUS, Regina, Saskatchewan (tel. Regina  
LA27348). Established 1911, the campus, previously  
"Regina Coll.", provides 1st & 2nd yrs. of BA and  
1st yr. of most other degree courses.

W. A. Riddell, BA BSc *Manit.*, PhD *Stan.*,  
MSc, Principal, Dean of Arts & Sci., H. Leyton-  
Brown, DPG, Dir. of Conservatory; K. C. Loch-  
head, Dir. of Art.

Academic Dept.: ARS—A. F. McKay, Lectr.  
BIOCHEM.—R. M. Agnew, MSc *Dal.*, PhD *Canb.*,  
†Lead. MATH.—G. F. Ledingham, PhD *Wisc.*,  
MSc, Assoc. Prof. CHEM.—A. B. Van Cleave,  
PhD *McG. & Camb.*, MSc, Prof., Chairman of  
Div. of Nat. Sci., A. M. Kristjanson, PhD  
McG., MA, Assoc. Prof.; O. G. Holmes, PhD

Col, MA, Asst. Prof.; S. Levine, MSc *Alto.*,  
PhD *Calif.*, Asst. Prof. CLASSICS—S. E. Stewart,  
MA *Dal.*, Asst. Prof. 1908. & POL. SCI.—F. W.  
Anderson, MA, Asst. Prof.; Evelyn L. Eager,  
MA PhD *Tor.*, BA, Asst. Prof.; D. Glenzinger,  
MA, Lectr. 220301—A. A. McKinnon, BE,  
Lectr. 1904. —Lucy H. Murray, MA *Tor.*, PhD  
Chc., BE, Assoc. Prof.; L. G. Crossman, PhD  
York, MA BE, Assoc. Prof.; G. L. Purkin,  
BA *McG.*, MA *Penn State*, Lectr. TURNER &  
GERMAN—Margaret Belcher, MA *Tor.*, BA,  
Assoc. Prof.; L. H. Peison, PhD *Nancy*, BA,  
Asst. Prof. 1918. —L. H. Thomas, PhD *Manit.*,  
MA, Assoc. Prof.; C. W. Lighthody, MA *Tor.* &  
Oxon., PhD *Can.*, BA, Assoc. Prof.; A. G.  
Korman, BA *Brocklyn*, MA PhD *Wisc.*, Assoc.

**CANADA**

Prof., H. Mitchell, BA *Agnus*, MA *Th.*, PhD *Land*, Asst. Prof. *MATHS*—W. C. Blight, BSc *Agnus*, Asst. Prof., K. G. Towse, MSc *ED*, Asst. Prof. *PHILOS*—H. Jack, MA *Th.*, PhD *How*, Assoc. Prof., Chairman of *HUMANITIES* Div. *PHYS*—L. H. Greenberg, MSc *Alto*, PhD, Assoc. Prof. *PSYCHOL*—D. B. Blewett, MA *By Col*, PhD *Land*, Assoc. Prof.

St. THOMAS MORE COLLEGE, Saskatoon, Saskatchewan, Canada (tel. Saskatoon CH46074)

## AFFILIATED COLLEGES

EMMANUEL COLLEGE, Saskatoon (tel. Saskatoon CH39666) Established 1879 for the Anglican clergy. Courses for *testatus*, LicTh, BD, which are conferred by the coll. Principal—Rev F. H. W. Caribb, BD.

LUTHER THEOLOGICAL SEMINARY, Saskatoon (tel. Saskatoon WU78183). Established 1914 for the study of the gospel ministry. A 3-yr. course in theol. leads to the candidate in theol. dipl. and such additional requirements to the degree of BD conferred by the seminary. President—Rev G. D. Evenson, BA *MTh* DD.

St. ANDREW'S COLLEGE, Saskatoon (tel. Saskatoon CH37025). Established 1912 for the study of the ministry of the United Church of Canada. Authorized to confer degrees in div. (BD and DD) Principal—Rev. R. F. Schnell, MA PhD.

St. CHARLES COLLEGE, Regina (tel. Regina

Established 1936, the coll. provides, in co-operation with the coll. of arts and sci., all courses leading to the BA degree.

Principal, Prof. of *PHILOS.*—Rev P. J. M. Swan, MA PhD *Th.* *ED* *Sci.* *REL.* *ED*—Rev R. F. Neill, MA *Th.*, Asst. Prof. *ENGL.*—Rev J. L. O'Donnell, MA *Th.* *ED* *FRENCH*—Rev J. P. Mallon, MA *Th.*, *DULACOL*, Prof. *PHYS.* *PHILOS.*—Rev R. W. Finn, MA *LMS* *Th.*, Assoc. Prof. *PHILOS.*—Rev T. J. Stokes, MA PhD *Th.*, Asst. Prof. *Adviser to Women*—Mrs. Bernadine Bujala, MA *Cul*, PhD *Mich*, BA *ED*.

LAZARUS. Established 1907 for 198 students in div. Course for *testatus*, LicTh, BD, DD, which are conferred by the coll. Warden—Rev N. D. Fehner, MA *LST*.

SASKATCHEWAN TEACHERS COLLEGE, with branches at Saskatoon and Regina, is administered by the provincial dept. of educ., prov. at Saskatoon. A 3-yr. course leads to a teaching cert. Its dipl. counts for credit for the work of the 1st yr. of the bachel. of educ. degree course at the univ. provided admission requirements of the coll. of educ. are met. Principals—Regina, Saskatoon, J. C. Bates, BA *ED*.

JUNIOR COLLEGES—Campbell Coll., Regina, St. Peter's Coll., Moose Jaw, Luther Coll., Regina. These colls. provide courses for 1st yr. of BA.

## GENERAL INFORMATION

The act establishing the univ. was passed by the legislative assembly of the province in 1907. The 1st classes in arts & sci. began in 1909, and the 1st bldg. on the campus was opened for admission of students in 1912. The other colls. and schs. were established as follows: agric. 1912, engin. 1912, law 1913, pharms. 1914, consum. (scot.) 1917, med. 1926, educn. 1927, home econ. 1928, nursing 1928, grad. studies 1946, phys. educn. 1958. Some of these began work as schs. under the administration of other colls., but all have since become colls. with the exception of nursing, which remains a sch. under the jurisdiction of the coll. of med. and phys. educn. under the coll. of arts and sci. St. Thomas More Coll., established by the Fathers of St. Basil in 1930, gives classes in most arts subjects on the same footing as the coll. of arts and sci. In 1934 Regina Coll. was taken over by the univ. and continued as a jr. coll. with a conservatory of music and a sch. of art. In 1961 the name of the coll. was changed to Univ. of Saskatchewan, Regina Campus.

**CONSTITUTION** Convocation has power to consider all matters affecting the interests and well-being of the univ. and to make representations thereon to the senate. The senate grants

degrees, authorizes establishment of scholcs., etc., colls., depts., chairs of courses of instruction within the univ., and considers and determines all courses of study. The bd. of governors is vested with the management, admin. and control of the property, revenues, business and affairs of the univ. It has the duty and power to erect and maintain bldgs., to expend money on their maintenance and equipment, to provide for the establish. and maintenance of facs., depts., chairs, exhibitions, scholcs., etc., determined by the senate, and appoints univ. staff. The univ. council conducts exams., and considers for report to senate courses of studies and other educational matters. The facs. of the colls. have charge of all matters of scholarship within each coll. Advisory councils for the colls. of agric., educn. and med. consider and report to the senate and bd. of governors on gen. regns. and courses of study. The chancellor is elected by members of convocation and holds office for 3 yrs. He presides over convocation, confers degrees and is chairman of the senate and a member of the bd. of governors. The vice-chancellor, who is also the vice-chancellor, is apptd. by the bd. of governors. He has general supervision over and direction of the academic work of the univ., the teaching staff and the student body. Deans of

colls have gen supervision over the direction of the work, of the teaching and tgr of the students in all depts of their colls. Hds. of depts have gen supervision and direction of the work of their depts.

**INCOME (1960-61)** Total income, excl. ancillary enterprises, \$8,045,660 (ices, 30.78 per cent, federal govt., 14.80 per cent; provincial govt., 41.11 per cent; 1st grants, 18.65 per cent; misc., 4.66 per cent).

**COLLEGES AND SCHOOLS** Agric., arts & sci., comm., educn., engin., grad studies, home econ., law, med., nursing, pharm., phys. educn. See also p. 349.

**UNIVERSITY PRECINCT** The univ. is situated on the S. Saskatchewan River at the edge of the city of Saskatoon. Its site comprises 2400 acres of which 300 acres have been set apart for the campus and the rest are used for the univ. farm and experimental plots. In the city of Regina the univ. owns the Regina Campus property incl. 25 acres on Wascana Lake. The univ. also has a 131-acre site on Emma Lake with several bldgs. for an art camp. The land, bldgs. and equipment cost about \$14,081,000. The maintenance of the univ. is partly provided for by assignments of revenue and legislative grants.

**LIBRARIES** 200,000 vols. Muttay Memorial lib. houses the main lib., coll. of law, incl. law lib. and local office of the Saskatchewan archives. Besides law lib., the following branch lib. are maintained: chem., engin., geol., phys., med. Short lib. of Canadiana (source material for Canadian hist., esp. the prairie region).

**LABORATORIES, I.L.C.** Biol., chem., geol., phys., agric. (animal diseases, animal husb., dairy, field husb., soils, hist.), engin. (agric., civil, electr., mech., petrol.), med. (anat., bacteriol., biochem., pathol., physiol., cancer & med. res.), home econ., pharm. Univ. farm. Agric. exper. fields. Sp. provision for res. in the various branches of agric. Observatory.

#### TEACHING HOSPITAL, UNIV. II.

**CENTRE FOR COMMUNITY STUDIES** The chief purpose of the centre is to collaborate with communities in identifying and understanding the conditions which make for soc. and econ. progress through self-help. The work of the centre is organized under a 3-phase programme: soc. res., leadership tgr., community consultation.

**INSTITUTE FOR NORTHERN STUDIES** has as its object the acquisition of new knowledge regarding the Canadian north and the academic tgr. of personnel in fields of study having a bearing on the north.

**INSTITUTE OF UPPER ATMOSPHERIC PHYSICS** works in co-operation with dept. of phys. of the univ.

**CANCER RESEARCH UNIT** of the Natl. Cancer Inst.

#### ADMISSION. See Appendix III.

**FIRST DEGREES** BA (in arts and in sci. subjs.), 3 yrs. from sr. matric. pass (4th yr. for home in biochem., biol., chem., econ., Engl., French, geol., German, Greek, hist., hotel, Latin, maths., philos., phys., physiol., pol. sci., psychol., sociol.), BSA (agric.), BComm., BEd., BE (engin.), BSHic (home econ.), BSP (pharm.), BA(PE) (phys. educn.), 4 yrs. from sr. matric.; LL.B., 3 yrs. after 2 yrs. in arts & sci.; BSN (nursing), 3 yrs. from sr. matric. incl. 2 yrs. in hosp.; BSc(Med.), 5 yrs. from sr. matric.; MD, 4 yrs. after 2 yrs. in arts & sci. The univ. has the sole right to confer degrees (other than degrees in theol.) in the province.

**HIGHER DEGREES** MA, 1 yr. min. from home BA, can be taken in all subjs. in which BA home is offered. MSc, 1 yr. min. from 4 yr. sci. degree; can be taken in agric. (incl. agric. mech., animal husb., dairy sci., farm management, field husb., plant cool., poultry, soil sci.), biol., chem., geol., phys., engin. (incl. agric., civil, electr., mech., petrol.), med. sci. (incl. anat., bacteriol., biochem., cancer res., physiol., pathol., psychiatry), pharm. MEd., 1 yr. min. from BEd. Ph.D., 3 yrs. min. from BA (home), or equivalent, a 2 yrs. min. from master's degree, can be taken in anat., animal husb., biochem., biol., chem., econ., engin. (incl. agric., electr., mech.), field husb., geol., hist., pharmacol., phys., plant cool., pol. sci. Candidates for Ph.D. must have taken some part of previous educn. at another univ.; exceptions may be made in special cases. Highest degrees are open to grads of other univs. Min. of 1 yr. residence required for master's, min. of 2 yrs. for Ph.D. degree. Courses of instruction and supervised res. are required for all higher degrees.

#### HONORARY DEGREES, LL.D., DCL, DSc, DLitt.

The univ. does not award **EXTERNAL DEGREES**, but students may complete 1 yr. of arts by correspondence.

**DIPLOMAS AND CERTIFICATES** Assoc. in arts (specially designed for jr. colls), 1 yr. Assoc. in educn., 2 yrs. Dipl. in agric. (for young farmers), 2-yr. practical course. Dipl. in nursing, 3 yrs. Postgrad. dipl. in educn. (for grads in arts & sci., agric., comm., engin., home econ.), 1 yr.; dipl. for grad. nurses (3 courses offered), 1 yr.; dipl. in bus. admin. (for grads. of coll. other than comm.), 1 yr.; cert. in clin. lab. technique, 1 yr. after BA, dipl. in hosp. lab. technique, 2 yrs., assoc. in music, min. 1 yr., licentiate in music, min. 2 yrs. Evg. cert. courses in accg., bus. admin., pub. admin.

**OTHER COURSES** Short courses in agric. and allied subjs., and for professional groups.

The univ. conducts the **LICENCE EXAMS** for the following professions: med. and surg., law, dent., accg., alchist., nursing, vet. sci., optometry, pharm., land sur., dent. technicians, chiropody, chiropactors, embalming, music, neurophysi.

**RESEARCH AND POSTGRADUATE COURSES** Postgrad. courses available in most depts. Inst. of



Upper Atmospheric Phys. (see above) Also located on the campus are the following res. labs which work in co-op with the univ.: Prairie Regional Lab. of Natl. Res. Council, Canada Dept. of Agric. Res. Lab., Saskatchewan Res. Council

**STUDY LEAVE.** Members of staff are granted study leave for 1 yr with half salary or a half yr with full salary after 7 yrs' service, after 14 yrs, 1 yr with 80 per cent salary is granted; 3 or 6 members are allowed study leave each yr.

**FEEs.** Tuition p.a. for degree courses: agric., arts & sci., educn., home econ., nursing, \$200-\$225; comm., law, pharm., \$225-\$250; engin., \$275-\$350; med., \$425-\$475; grad studies, \$175, sch. of agric., \$100.

**ACADEMIC YEAR.** Sept-May; two terms of 14 to 15 wks each.

**ADULT EDUCATION.** Correspondence courses in arts (max. of 1 yr. credit); depts. of agric. extension and women's work provide lectures, demonstrations and short courses, incl. courses for rural boys and girls in agric. and home-making. Also adult educn. courses and lecture courses at the univ. for those not intending to read for a degree. Degree credit courses and ext. non-degree credit courses offered in evg. classes (see above).

**VACATION COURSES.** Summer sch. of 6 wks held in July-Aug. Classes offered in arts & sci. and educn. mainly for teachers. Intercession of 6 wks. held in May-June. A limited number of classes offered for arts & sci., comm. and educn. students.

**'OPEN' SCHOLARSHIPS FOR GRADUATES.** Saskatchewan govt. res. fellowships for preparation for a career in sci. and indust. res., \$2000 or \$2400 each; Consolidated Mining and Smelting fellowship for grads in sci., engin. or agric., \$1000 plus \$500 for equipment; National Res. Council bursaries of \$1800, studentships of \$2400 for 12 months to qualified grads in biol., chem., engin., geol., metall., mineral., phys. and maths.; Agric. Res. Foundation schol., \$1000, a yr.; Canadian Industries Ltd. fellowship in chem., \$2000 plus \$400 for maintenance; Saskatchewan approved Hatchery Assocn. schol., \$600; Univ. of Sask. scholps (10) in humanities and soc. scis. for students proceeding to MA, \$1000; Univ. of Saskatchewan grad ass'tships in

agric., biol., chem., educn., engin., geol., maths., med., phys., to students proceeding to MA or PhD, \$1800; Shell Oil fellowship for 1st yr in sci. or engin., \$1800-\$1200 for normal read yr., and \$600 for holder continuing 1st during remaining 4 months; Warner-Lambert fellowship for 1st in pharm., \$1200 plus \$300 for ap. equipment and supplies.

**ALUMNI ASSOCIATION.** Central office at the univ. with branches in most large cities across Canada. Official publi., *The Green and White*, publi. 4 times a yr., and also other information bulletins which are forwarded to all members.

**STUDENT RESIDENCES.** Hostels for 245 men and 105 women. Men: Qu'Appelle Hall, sch. of agric. Women: Saskatchewan Hall. All residences are situated on the univ. campus. Bd. and room fees, \$62 to \$69 per month.

**JOINT SERVICES UNIVERSITY TRAINING.** Trg. for officers for the armed forces is provided through the univ. naval trg. division, the univ. contingent of the Canadian officers' trg. corps and the Royal Canadian air force (auxiliary) univ. flight.

**STUDENT HEALTH SERVICE.** Univ. clinic on the campus. All students pay a sickness and accident fee for med. services. Out-of-province students pay a hospitalization fee.

**STUDENTS' REPRESENTATIVE COUNCIL.** Elected annually by the students and governs student affairs for univ. functions, social and athletic. Each coll. evng. governs functions for its own coll.

**STUDENTS' UNION.** Memorial union bldg. erected in memory of the students killed in second world war.

**PUBLICATIONS.** Coll. *calendars* (April), *gen. Calendar* (May); *Convocation Program* (May); *President's Annual Report*; *Agric. Bulletin*; *Sheaf* (student newspaper); *Gryphon* (student yrbook); *The Green and White* (alumni assocn., quarterly); books, articles, bulletins and res. papers by members of staff. Hats publi. in jubilee yr.: *Saskatchewan—The Making of a University*, A. S. Morton and Carlyle King. (Univ. of Toronto Press, 1955) *The First Fifty: The University of Saskatchewan*, Carlyle King (McClelland, 1959).

**UNIVERSITY BOOKSTORE.**

## THE YEAR 1961

**PRINCIPAL BUDGETS.** Scholps., \$88,779; res., \$1,559,641; other purposes, \$10,055.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: extension to engin. bldg.

**RETIRED.** F. C. Clonkete (dean, law), R. Paton (philos.).

**RETIRED.** A. Porter (dean, engin.); J. W. Macleod (dean, med.); C. D. Stewart (agric. engin.), M. J. Woods (law), P. A. Fowd (civil

engin.); A. M. Minko (biochem.); C. A. B. Clementson (obstet. & gynaecol.); R. Gundeland (physiol.); G. H. Holman (ped.); K. M. Thompson (chem.); E. W. Underhill (pharm.); J. T. Weaver (maths.); G. Wearning (phys. educn.); Rev. G. A. Pilecki (Engl.).

**DEATHS.** C. F. Patterson (hist., econ.); D. S. Rawson (biol.); G. E. Butnell (econ. and pol. sci.).

**HONORARY DEGREE.** DCL—M. A. Mac-

Pherson, lawyer LLD—J. L. Gray, pres., Atomic Energy of Canada Ltd., W. Ramsay, dean emer., Regina Coll.; D. L. Thomson, vice-principal, McG., G. A. Hart, pres., Bank of Montreal; Very Rev. G.-H. Lévesque, vice-chairman, Canada Council; M. J. Coldwell, former natl leader, CCF party, J. H. Wesson, former pres., Sask. Wheat Pool.

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time*	External
Men	4353	2588	355
Women	1776	3019	850
Total	6129	5607	1205

Distribution by Faculties, etc. Agric., 276; arts & sci., 1990; comm., 437; educn., 1049; engin., 1044; home econ., 74; law, 101; med., 133; nursing, 424; pharm., 241; phys. educn., 70; music, 37; grad. studies, 353. Total: 6129.

Included in the figures above are:—

Postgraduate students, 253

New admissions, 2358

Students from other countries, 267 (Countries from which largest numbers came: U.K., 54; India, 34; W. Indies Fed., 33; U.S.A., 27; Germany, 16; Netherlands, 12).

DEGREES AWARDED (1960-61) Agric. BSA, 16; Arts & sci. BA, 356, BA(PE), 6; Comm. BComm., 31; Educn. BEd., 243; Engin. BE, 197; Home econ. BSHec., 12; Law LLB, 22; Med. MD, 26, BSc(Med), 1; Nursing BSN, 26; Pharm. BPh., 33; Grad. MA, 24, MEd., 3, MSc., 59; PhD, 12.

DIPLOMAS AND CERTIFICATES AWARDED (1960-1961) Agric., 56; acctg., 1; bus. admin., 33; pub. admin., 12; educn., 56; nursing (grad. nurses), 73; assoc. in arts, 113; assoc. in music, 4; clin. lab. technique, 2; hosp. lab. technician, 12.

\* Includes summer sch. and evg. classes

# UNIVERSITY OF SHERBROOKE

Founded 1954

Postal Address: Cité Universitaire, Sherbrooke, P.Q., Canada

Cables and Telegrams: University, Sherbrooke, P.Q.

Telephone: LO 9-7431

CHANCELLOR—H.E. Mgr. G. CARANA, Roman Catholic Archbishop of Sherbrooke

RECTOR—Mgr. I. PINARD, BA *Montr.*, BDC *Rome*VICE-RECTOR—Mgr. M. O'BRIEN, BA *Montr.*, L&L *Paris*SECRETARY-GENERAL AND REGISTRAR—Rev. A. SIMONE, BA BP&D *L&L. Montr.*FACULTIES AND DEPARTMENTS—Canon R. MALAIS, BA *Montr.*, LPH *Rome*, COMMERCE—R. COUVEREAU, BA L&C *Montr.*, MS(Comm) *Col.*, PhD *Ott.*, MEDICINE—G.-L. LAROCHE, BA MD *Laval*, FRCP(C), ACADEMY OF EDUCATION—P.-H. RUEL, BA LP&D *Laval*, LPs *Montr.*, THEOLOGY—Rev. M.-A. POULIN, BA LTh BES *Rome*TREASURER—Rev. P. GILMORE, BA MSc *Montr.*LIBRARIAN—G. BELIELE, BA BPh B&ScBibl *Ott.*

## TEACHING STAFF

[† = Part-Time]

### Biology

David, B., BA LP&D *Montr.*  
Véronneau, Rev. G., BA L&C *Montr.*Joly, R., MA BTh LPH *Ott.* Prof.  
Mitchelson, C., BP&D *M&S* Prof.  
Paulhus, Rev. E., BA *Montr.*, DP&D *Lyon* Prof.  
Saint-Denis, J. C., BA LPs *Montr.* Prof.  
O'Reilly, Mgr. M., BA *Montr.*,  
L&L, *Paris*

### Chemistry

Bédard, M., BA BSc *Montr.* Prof.  
Brown, G. M., D&Sc *Laval*,  
DUMontpellier Prof.  
Cluche, J. M., BA BScA MSc *Montr.* Prof.  
Gingras, A., BA BSc *Laval* Prof.  
Lafamme, G., BA BSc *Laval* Prof.  
Lalancette, J. M., DSc *Montr.* Prof.  
Larochelle, N., BA BSc *Montr.*, MA *Tor* Prof.  
Saint-Arnaud, R., BA BSc LSC *Montr.* Prof.Côté, Rev. W., BA BP&D *Montr.*,  
D&Sc *Rome* Prof., Principal  
Métrais, Rev. R., BA Prof.  
Allard, G., BA LP&D *Montr.* Prof.  
Archambault, J. G., BA BP&D Prof.  
Bernier, I., BA BP&D Prof.  
Bourgeois, A., BA BP&D *Montr.* Prof.  
Deslandes, R., BA LP&D L&L *Montr.* Prof.  
Desrosiers, A., BA LP&D *Montr.* Prof.  
Dumont, P. E., BA BP&D Prof.  
Foucher, J. N., BA LP&D *Montr.* Prof.  
Ferland, M., BA LP&D *Montr.* Prof.  
Gagné, L., BA LP&D *Montr.* Prof.  
Hunt, P., BA LP&D *Montr.* Prof.  
Laliberté, R., BA LP&D *Montr.* Prof.  
Larivière, R., BA LP&D *Montr.* Prof.  
Lefebvre, R., LP&D MA *Montr.* Prof.  
Milot, A., BA LP&D *Montr.* Prof.  
Moulin, J., BA BP&D Prof.  
Poulin, R., BA *Montr.* Prof.  
Proulx, J., BA LP&D *Montr.* Prof.  
Roberts, A., BA BP&D Prof.  
Robitaille, G., MP&D *St. Michael's (V.T.)* Prof.  
Roy, V., BA L&L *Laval* Prof.  
Vachon, Rev. H. P., BA Prof.  
Vachon, N., LP&D *Montr.* Prof.  
Vincent, M., BA Prof.

### Commerce and Business Administration

Cousens, R., BA L&C *Montr.*,  
MS(Comm) *Col.*, PhD *Ott.* Prof., Dn.  
Béault, R., BSc *Montr.*, MSc *Laval* Prof.  
Gagné, G., BA MBA *W.Ont.* Prof.  
Grandpré, R., MSc *Col.* Prof.  
Isbester, A. F., BA MBA *W.Ont.* Prof.  
Lalancette, J., MSc LSC *Montr.* Prof.  
Leroux, A., BA BScApp *Laval*, MA *Col.* Prof.  
Loranger, L., BA MSc *Laval*, LSC *Montr.* Prof.Pichette, C., BA BSc&C MSc(Econ) *Laval* Prof.  
Plavancher, L., BA L&C *Montr.*, Prof.

### Education

Ruel, P.-H., BA LP&D *Laval*, LPs *Montr.* Prof.  
Desrosiers, F. X., BA BP&D L&C *Laval* Prof.Proulx, J., BA LP&D *Montr.* Prof.  
Roberts, A., BA BP&D Prof.  
Robitaille, G., MP&D *St. Michael's (V.T.)* Prof.  
Roy, V., BA L&L *Laval* Prof.  
Vachon, Rev. H. P., BA Prof.  
Vachon, N., LP&D *Montr.* Prof.  
Vincent, M., BA Prof.

**Engineering**

Normandin, M., BScA <i>Mont</i>	Prof., Dir
Avibé, G., MScA <i>Notre Dame</i>	Prof
Bouvier, R., BA BScA <i>McG</i>	Prof.
Boudreau, L., BScA <i>Laval</i>	Prof
Brunelle, P. E., BScA <i>Mont</i>	Prof
Champagne, J. P., BScA <i>McG</i>	Prof
Chenier, R., MScA <i>Mont</i>	Prof.
Delsile, J., BA BScA <i>Laval</i> , MSc <i>Paris</i>	Prof
Dennis, G., BA BScA <i>MS M I T</i>	Prof
Gauthier, L. M., BA BScA <i>Mont</i>	Prof.
Hamel, C., BA BScA <i>Mont</i>	Prof
Hubert, L., BA BScA <i>Mont</i>	Prof
Lefebvre, M. P., BScA <i>MSc M I T</i>	Prof
Leroux, A., BA BScA	Prof
Paré, J. J., DIC, BA BScA <i>Laval</i>	Prof
Pecko, G., BSc <i>Brus</i>	Prof

**English**

Cuppon, C., MA PhD <i>Yale</i>	Prof
Gawronski, M., MA <i>Mont</i>	Prof
Sutherland, R., MA <i>McG</i> , PhD <i>Wayne</i>	Prof.
Taulefer, J., BA MA(Ed) PhD <i>Mont</i>	Prof.
Thibault, C., MA <i>Laval</i>	Prof.

**French Language and Literature, and Classes**

Bazinet, A., BPéd MA <i>Mont</i>	Prof
Bernard, M., MA L&L <i>Mont</i>	Prof
Bédard, M., BA L&L <i>Mont</i>	Prof
Bian, J., BA L&L <i>Laval</i>	Prof
Brousseau, G., BA BPh <i>Mont</i>	Prof
Collinge, P., DL <i>Lévis</i>	Prof
Fleury, F., A, MA <i>Canad</i> , L&L <i>Paris</i>	Prof
Rioux, P. P., BA BPéd LOSEP <i>L&amp;L, Laval</i>	Prof

**Geography and History**

Casalis, P., LScPol <i>Troisrivières</i> , MA	
DES <i>Lévis</i>	Prof
Charbonneau, Rev. F., BA LTh <i>Mont</i>	Prof
Lavallée, J. G., BPh <i>Laval</i>	Prof
Ray, J. M., MA <i>McG</i> , DGrG <i>Grossville</i>	Prof

**Household Science**

Sainte-Eugène-de-la-Foi, Sr., MSc <i>Laval</i>	Prof., Dir
Sainte-Catherine-Laboué, Sr., BScDom	Prof
Sainte-Luce, Sr.	Prof
Sainte-Madeleine-Lacette, Sr., LMus <i>Mont</i>	Prof.
Sainte-Madeleine-Marthe-de-Jésus, Sr.	Prof
Sainte-Terence, Sr., MA	Prof.
Sainte-Yolande-Marie, Sr., BScDom	Prof
Sainte-Pauline-de-Jésus, Sr., BScDom	Prof.

**Law**

Leblanc, A., QC, BA LLL <i>Mont</i>	Prof
Crépeau, R., QC, BA LLL <i>Mont</i>	Prof., Dir
Pécheux, J. G., BA LPh LLL	Prof
Guy, M., BA LLL <i>Mont</i>	Prof
Melanson, J., BA LLL	Prof
Allard, G., BA LLL	Prof
Allard, M., BA LLL	Prof

Barnard, E., BA LLL L&L <i>Laval</i>	Prof
Bédard, C., BA LLL	Prof
Boudreau, G., BA LLL	Prof
Chenier, C., BA LLL <i>Mont</i>	Prof
Cluche, Judge I. P., BA LLL <i>Laval</i>	Prof
Coderre, C., BA LLL	Prof
Comtes, P., BA BSA <i>MSc Laval</i>	Prof
Côté, L., QC, BA LLL <i>Mont</i>	Prof
Dandaneault, Rev. B., BA	Prof
Delorme, M., QC, BA LLL <i>Mont</i>	Prof
Denis, A., BA LLL <i>Laval</i>	Prof
Deslandes, Rev. A., BA LTh <i>Mont</i>	Prof
Desmarais, Judge G., BA LLL <i>Mont</i>	Prof
Fortin, C., QC, BA LLL <i>Laval</i>	Prof
Labrecque, Rev. A., BA LPh	
LTh <i>Pointe d'Arden Angelicum</i>	Prof
Lagasse, J., BA LLL <i>Mont</i>	Prof
Lagasse, R., BA LLL <i>Mont</i>	Prof
Langlais, A., BA LLL <i>Laval</i>	Prof
Leblanc, C., BA LLL <i>Mont</i>	Prof
Lévesque, R., QC, BA LLL <i>Mont</i>	Prof
Mitchell, Judge W., BA BCL <i>McG</i>	Prof
O'Grady, J., BA LLL	Prof
Pélégan, J. L., BA LLL <i>LSS Mont</i>	Prof
Picard, C., BL LLL <i>Laval</i>	Prof
Rivard, A., BA LLL <i>Laval</i>	Prof
Rouillard, J., BA LLL <i>Mont</i>	Prof
Savard, G., BA LLL <i>Mont</i>	Prof
Sunesson, N., BA LSc <i>Mont</i>	Prof
Sylvester, G., BA LLL <i>Mont</i>	Prof
Veilleux, Judge E., BCL <i>Ottawa</i> , BA LLL LPh	Prof

**Mathematics**

Bazinet, J., BA MSc <i>Mont</i>	Prof
Boucher, C., BSc MA <i>Mont</i>	Prof.
Brisebois, M., MSc <i>Mont</i>	Prof
Colas, L., BPéd BSc <i>St-G-Wm</i>	Prof
Constantin, J., MSc <i>Mont</i>	Prof.
David, Br., BA LPéd <i>Mont</i>	Prof
Gagné, J., BA BSc BPéd	Prof
Leduc, R., BA BScA <i>Paris</i>	Prof
Martin, J. P., LSc BSc <i>Mont</i>	Prof
Paul, B., BA BSc <i>Mont</i>	Prof
Sanson, J. P., BA LMath <i>Laval</i>	Prof

**Philosophy**

Goulet, J., BA BPéd LPh <i>Ott</i>	Prof., Principal
Charette, L., BA LPh <i>Ott</i>	Prof.
Mercier, P., MA <i>Laval</i>	Prof
Paradis, P. Y., BA LPh <i>Laval</i>	Prof.

**Physics**

Allard, J., BSc <i>St-G-Wm</i>	Prof
Georges, Jr., BA BScA <i>Laval</i>	Prof
Richard, G., BSc <i>St-G-Wm</i>	Prof

**Theology**

Paulin, Rev. M. A., BA LTh BSc <i>Rowe</i>	Prof
Béliveau, Rev. Y., BA	Prof
Deslandes, Rev. J., BA DTh	Prof
Doucet, Rev. C. E., BA DTh <i>Rowe</i>	Prof
Farley, Rev. C., BA Dupl.	Prof

Ferland, Rev. J., BA LDC  
 Leclerc, Rev. G., BA DTh  
 Marc-Autelle, Rev. P., BA DDC  
 Mettayer, Rev. A., BA LTh  
 Moen, Canon W., BA BTh DDC  
 Ouellet, Rev. J. G., BA LTh

Prof Paradis, Rev. C., BA LTh  
 Prof. Piché, Rev. P., BA LTh BES  
 Prof. Provencal, Rev. G., BA LDC  
 Prof. Saint-Jean, Rev. G., BA DTh  
 Prof. Tremblay, Rev. D., BA LTh LES Rome  
 Prof. Zeman, Rev. P., BA DTh LES

## ADMINISTRATIVE AND OTHER STAFF

DIRECTORS OF STUDIES Fac of Law: R. Crépéau, QC, BA LLL *Montr.*; Fac of Scis.: M. Normandin, BScA *Montr.*; Fac of Comm.: Teachers' Sch. Mgr. M. O'Brien, BA

*Montr.*, LèsL. *Parr.* Coll.: J. Goulet, BA *Montr.*, BPéd LPh *Laval*  
 Chaplain of Students: Rev. R. Marquis  
 Public Reins: A. Vallancourt.

## CONSTITUENT COLLEGE

The COLLEGE UNIVERSITAIRE is the undergrad part of the fac. of arts *into nines*, and provides

the arts course leading to the BA degree in 4 yrs

## AFFILIATED INSTITUTIONS

SECONDARY OR CLASSICAL STUDIES. The following 15 colls for boys and 5 colls for girls are affiliated to the univ. Each provides a 4-yr. high sch. course followed by a 4-yr. coll. or arts course, on the completion of which a student may qualify

by exam. for the BA degree of the univ. admitting him to professional studies in the univ. The teaching staff of these colls are not listed by name above.

For boys:—

COLLEGE CLARÉTAINE, Victoriaville, P.Q. (tel. PL 2-4679) (founded 1955) Superior—Rev. S. Alonso, LTh.

COLLEGE D'ALON, Bury (Compton), P.Q. (tel. 68) (1955) Superior—Rev. A. Clermont, BA

COLLEGE D'ARTHABASKA, Arthabaska, P.Q. (tel. 14) (1932) Superior—Br. Louis-Régis, BA LPéd DepHth

COLLEGE DE LA SOCIÉTÉ SAINT-PAUL, Sherbrooke, P.Q. (1959) Superior—Rev. A. Bellan-son.

COLLEGE DU MONT STE-ANNE, Sherbrooke, P.Q. (tel. LO 2-4676) (1947) Superior—Rev. E. Andereggen, BA.

COLLEGE NOTRE-DAME-DES-SURVIES, Ayes's Cliff (Stanstead), P.Q. (tel. 153) (1945) Superior—Rev. R.-M. Desloges, BA.

ÉCOLE SECONDAIRE CLASSIQUE DE BROMPTONVILLE, Bromptonville, P.Q. (1957) Dir.—Br. Marc-Henri

EXTERNAT CLASSIQUE D'ASBESTOS, Asbestos, P.Q. (tel. 452-F-3) (1956) Principal—Rev. F. Lebbé, BA *Montr.*, BPéd

EXTERNAT CLASSIQUE DE MAGOG, Magog, P.Q. (tel. VI 3-3267) (1955) Principal—Rev. R. Côté, BA *Montr.*

EXTERNAT CLASSIQUE DE MÉGANTIC, Lac

Mégantic, P.Q. (tel. 4) (1955) Principal—Rev. R. Pelletier, BA *Montr.*, BPéd.

EXTERNAT CLASSIQUE DE WINDSOR, Windsor Mills, P.Q. (1960) Principal—Rev. L. Jacques, BA

MONT SACRÉ-CŒUR, Granby, P.Q. (tel. FR 2-7454) (1932) Dir.—Br. Alphons, BA LPéd.

PENSIONNAT SRA-VICTOIRE, Victoriaville, P.Q. (1959) Dir.—Sr. Ste-Thérèse de la Charité, MA LPéd.

SÉMINAIRE DE SHERBROOKE, 195 Marquette, Sherbrooke, P.Q. (tel. LO 2-2126) (1875) Recteur—Canon D. Lessard, BA.

SÉMINAIRE DES VOCATIONS JARDINES, Nicolet, P.Q. (1956) Superior—Mgr. R. Charland.

For girls:—

COLLEGE DU SACRÉ-CŒUR, 475 Park, Sherbrooke, P.Q. (tel. LO 9-2930) (1945) Directress—Sr. Marie-Ernestine, BA LPéd PhD.

COLLEGE MARIE-DE-LA-PRÉSENTATION, Drummondville, P.Q. (tel. 2-3744) (1955) Superior—Sr. Gabriel-Archange, BA.

ÉCOLE SECONDAIRE SAINT-JOSEPH D'ASBESTOS, Asbestos, P.Q. (1961) Superior—Sr. Marie-Saint-Fabien, LPéd

MONT-NOTRE-DAME, Sherbrooke, P.Q. (tel. 1)

LO 9-6331 (1958) Superior—Sr Ste-Hélène-du-Sacré-Cœur, BA BPh.

PENSIONNAT SAINT-LE-VICTOIRE, Victoriaville, P.Q. (1959) Superior—St Lambert, BP4d.

SCHOOL OF DOMESTIC SCIENCE, 114 rue de la Cathédrale, Sherbrooke, P.Q. (tel. LO 9-5883) (1957) Directress—St. Ste-Basile-de-la-Foy, MSc Level 4-yr course leading to BScDom

SCHOOLS OF HOUSEHOLD SCIENCE The following schools provide 2-yr post-matric. courses leading to a cert. in household sci.: Institut familial Rivier, Sutton; Institut familial du Christ-Roi, Nicolet; Institut familial et social de Sherbrooke, Institut familial Mater-Annabets, Nicolet; Institut familial Notre-Dame-du-Foyer, Saint-Amand-de-Richelieu; Institut familial Saint-Césaire, St-Césaire; Institut familial Saint-Joseph, St-Hyacinthe; Institut familial Sainte-Marie, Drummondville

## GENERAL INFORMATION

The univ. was founded in 1954 by the Roman Catholic Archbishop of Sherbrooke, under an act of the legislature of the province of Quebec. It received its Roman Catholic charter in Nov. 1957.

CONSTITUTION. The chancellor, who is always the R.C. archbishop of Sherbrooke, is hd of the univ. He administers through the *evoc.* a *rector*, 2 *vice-rectors*, a *sec.-general*, a *treasurer* and 4 *dea*. These members are nominated by the chancellor and are responsible to him.

Each *fac.* has its own hd responsible to the *evoc.* The chancellor nominates the *dean* who is the *hd* of that council, the *vice-dean* and the *sec.*

The other members are nominated by the *evoc.* Also responsible to the *evoc.* is the *bd* of *tutors*, whose object is to collect, own and administer, in trust for the univ., property and moneys.

INCOME (1960-61) Total income, \$935,617 (govt. grants, 54.6 per cent; fees, 45.2 per cent; gifts, 0.2 per cent)

FACULTIES AND DEANS See p. 350.

UNIVERSITY CAMPUS. The univ. has acquired 900 acres nr. the city of Sherbrooke for the intended campus and the bldgs. of the *fac. of scis.*, *fac. of comm.*, *fac. of arts*, *sec. centre*, students' residence and central heating plant have already been erected there.

LIBRARY. 49,000 vols.

ADMISSION. See Appendix III

DEGREE OF BACHELOR OF ARTS. The *baccalauréat ès arts* (BA) is awarded by the univ. and may be gained in two ways:

(a) The complete course leading to it is provided in private colleges *clausures* affiliated to the univ. (for a list, see pp. 352-3) The course is of 8 yrs. duration, in two 4-yr stages called *cours secondaires* and *cours universitaires*. The former (taken from about 12 to 16 yrs. of age) is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the second stage is by passing the *muséométrique* exam. set by the univ. (and thus obtaining the *matric. dipl.* of the univ.) at the end of the 4th (final) yr. of the *cours secondaires* and the 11th yr. of schooling.

(b) Alternatively, the 4 yrs. of the *cours universitaires* may be taken at the Collège Universitaire, Sherbrooke (see p. 352).

Students who reach a certain standard in both arts and sci. in the *cours universitaires* are awarded the BA of the univ. usually at about the age of 20. The award of the BA indicates that the student is ready to begin his professional studies in law, med. or appl. sci., or to enter on higher study in arts or sci.

OTHER DEGREES. COMME BCom, 2 yrs after BA or 4 yrs after 11th grade or jr. matric.; MCom, 1 yr after BCom *Édcom*; BPéd, 1 yr after BA or 1 yr after 13th grade (teachers' coll.); 4 yrs after 11th grade or jr. matric.; MPéd, 1 yr. after BPéd, LPéd, 2 yrs. after BPéd; MEng, 1 yr after BPéd, LEng, 2 yrs after BPéd, LPASe, 2 yrs after BPéd, LPASe (handicapped children), 4 yrs after 13th grade, BET (teaching in technol.), 2 yrs after DT (govt. technol. dipl.); MET, 2 yrs after BET *Engin*; BScA, 3 yrs after BA or sr. matric. *Household sci.*: BScDom, 4 yrs after 11th grade or jr. matric. *Law*: LL.L., 3 yrs after BA *Med* (beginning 1964 or 1965); 3 yrs after BA *Theol* BTh, 4 yrs after BA, MA(Religion), 3 yrs after BA

HONORARY DEGREES. DU, LL.D., DSc, DSc (Econ), DPéd, D.Litt.

THE LANGUAGE OF INSTRUCTION is French  
FELS. Arts: postgrad, \$380, undergrad, \$300 Comm, \$380, engin., \$380; law, \$380; Scis of educn, \$380; scis, \$380, Teachers' coll \$150

ACADEMIC YEAR. Sept to May. 2 terms of 15 wks each

ADULT EDUCATION. The *fac. of arts* offers an extension course leading to the BA degree by exp. courses. The *fac. of comm.* also offers extension courses in accty. and bus. admin. (day-time attendance not essential)

VACATION COURSES. Courses given in arts and pedagogy, generally leading to degrees (no regular session attendance essential).

PUBLICATIONS *Annuaire Général*; *Le Recueil de l'Université de Sherbrooke*; *Le Rapport Annuel*; *Les Annales particulières* droit, comm., sciences et école normale; *Le Campus strictus* (students' paper)

## THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed*, students' residence, central heating plant.

HONORARY DEGREES. *D.Litt*—Canon M Couture. *DL*—A. Nodden. *D.Sc*—K. V. Lundell. *D.Sc(Econ)*—J. A. Fuller. *DL*—Hon J Leage

## Statistics

## STUDENT NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1729	323
Women	689	75
Total	2418	398

Distribution by Faculties. *Arts*, 647; *comm.*,

282; *home econ*, 243; *law*, 68; *sci*, 289, *stns. of educn*, 738, *theol*, 151. Total 2418

*Included in the figures above are —*

Postgraduate students, 65.

Students from other countries, 4

DEGREES AWARDED (1960-61). *Arts* BA, 70, BScDom, 10 *Comm* BCom 7, MCom, 23. *Law* LLB, 19 *Pedagogy*: BPed, 155, MPed, 3, LPed, 2 *Sci* BScA, 29

DIPLOMAS AWARDED (1960-61) *Med* archives, 10

CERTIFICATES AWARDED (1960-61) *Specialized teaching*, 2, *alcoholism*, 16

## SIR GEORGE WILLIAMS UNIVERSITY\*

Founded 1929, incorporated 1948

Postal Address 1435 Drummond Street, Montreal 25, P.Q., Canada  
 Cables and Telegrams Sir George Williams University, Montreal, Quebec  
 Telephone VL4-0131

CHANCELLOR—B. W. ROBERTS, OBE, Hon. LL.D.  
 PRINCIPAL AND VICE-CHANCELLOR—R. C. RAE, BA BSW Tor, StH Trin Coll Tor  
 VICE-PRINCIPAL—D. B. CLARKE, MA McG, BA  
 REGISTRAR—D. L. PETERS, BSc McG  
 BURSAR—H. G. WOODHILL, BA  
 LIBRARIAN—K. CROUCH, BA Qm, BLS McG.

## TEACHING STAFF

[† = Part-Time]

## Accountancy

Finnucy, J. G., BSc(Com), CA  
 Clarkson, L. G., BCom  
 Fallon, R. H., BCom McG  
 Horner, F. H., BCom McG  
 Ledoux, E. R.  
 Mendelsohn, B. J., BCom  
 Reavely, S. D., BBA Penn.

Prof.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.

Dickie, A., BCom McG, CA  
 Burke, D. W., CA  
 Franklin, M. H., BA BCL McG  
 Hann, H., BCom  
 Archer, J. B., BA BSc  
 Brenda, C. J., BCL Osl  
 Burns, D. W., BSc Buss's  
 Bytewald, H. C., MEd Rotterdam  
 Chantles, H. W., BSc(Com)

Asst. Prof.  
 Lectr.  
 Lectr.  
 Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.

## Biology

Honeyman, J. M., BA McG, AM Harv.  
 Black, W. F., BSc Maut, PhD McG.  
 Petts, D. L., BSc McG.  
 Steele, D., BSc W' Ont, MSc McG.

Assoc. Prof.  
 Assoc. Prof.  
 Asst. Prof.

Cunningham, G. J.  
 Davies, W. H., BCom  
 Foley, T. P.  
 Gill, H. T., BA Oron.  
 Ham, A. K., BA McG  
 Hassam, W. C.  
 Holmes, G. A., BCom McG.  
 Jones, W. D., BCom  
 Jones, G. V.  
 Kendall, G. C.

†Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.

## Chemistry

Madras, S., PhD McG, BSc  
 Ulford, J. R., BEng PhD McG,  
 MASE Tow.  
 Varschinger, R. H. C., PhD McG, BSc

Prof.  
 Assoc. Prof.  
 Assoc. Prof.

Klimes, A. S., BSc  
 Linton, R. D., BCom McG.  
 Maurice, G. U., BA Ott., LSc Soc Monb.  
 McCann, J. A.

†Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.

Lemon, J., BSc  
 Leage, A. D., BSc  
 Dick, J. G., BSc  
 Mervish, T., BSc

Asst. Prof.  
 Asst. Prof.  
 †Lectr.  
 †Lectr.

O'Brien, J. E., BA BCL McG.  
 Read, L. M., BEng McG, BA BSc  
 Read, T. C.  
 Robertson, D. N. S., BA Qm, BEd Tor

†Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.

## Classes

Widdows, P. F., MA Oron.

Asst. Prof.

Smola, J., BCom  
 Threlfall, M. S.  
 Trost, E. J. A.

†Lectr.  
 †Lectr.  
 †Lectr.

## Commerce

Pugsley, P. T. R., BA BCom, CA, FCIS  
 Curnew, G. R., BCom, CA

Asst. Prof.  
 Asst. Prof.

## Economics

Letmar, A., MA Tor.  
 O'Brien, J. W., MA McG.

Prof.  
 Assoc. Prof.

\* Member of the Association of Universities of the British Commonwealth



Armstrong, Mrs. Muriel, BEd *Alta*,  
MA *McG*  
Tarnowsky, A., BCom  
Mihowine, T., BA *Dalh*, MA *Glas*.  
Halford, C. R., BCom

Asst. Prof  
Asst. Prof  
Lectr.  
†Lectr.

### Education

Finley, E. G., BA BCom *McG*, BEd *Col*. Lectr.  
Johnstone, W. D., BA Lectr.

### Engineering

Bordas, J., BEng MSc *McG*, MEIC Prof.  
Goldman, C., MEng *McG* Asst. Prof.  
Iqbal, M., BA BScEng *Paw*, MEng *McG*.  
Tarnish, L. E. Asst. Prof.  
†Lectr.

### English

Compton, N., MA *McG* Prof.  
Francis, Wynne P., BA Assoc. Prof.  
Lamb, S. S., BA *McG* Assoc. Prof.  
Tobias, Rytse, BA Assoc. Prof.  
Belkin, Mrs. Roslyn, BA Asst. Prof.  
Mackinnon, Mrs. Leona, BA *Tor*,  
MA *Sask* Asst. Prof.  
Butovskiy, M., BA Lectr.  
Arnold, L., BA †Lectr.  
Arthur, A. D. G., MA *Acad*,  
BEd *Tor* †Lectr.  
Briggs, Mrs. Ruth, BA *Sask* †Lectr.  
Brookhurst, Mrs. Mildred, BA *McG* †Lectr.  
Candub, A., BA †Lectr.  
Cochrane, E. G., BA †Lectr.  
Etheridge, K. C., BA †Lectr.  
Fancourt, E. †Lectr.  
Flood, J. †Lectr.  
Jones, R. C., BSc *Springfield*, BA †Lectr.  
Lamb, Mrs. Sylvia, BA †Lectr.  
Layton, I. P., BSc MA *McG* †Lectr.  
MacDonald, R. J., BA *Acad*, MA *Tor*. Lectr.  
Magee, Eleanor, BLS *McG*, BA BSc †Lectr.  
Müller, Mrs. Audrey, MA *Tor* †Lectr.  
Mitchell, C., BA *McG* †Lectr.  
Rum, A., BA †Lectr.  
Smith, Ruth, BA *Qv*. †Lectr.  
Stokes, Mrs. Anne, BA †Lectr.  
Walker, M. G., BA *McG* †Lectr.  
Weyland, Henrietta, MA *Middlebury*, BA †Lectr.  
Wirth, Mrs. Beatrice, BA †Lectr.

### Fine Arts

Clarke, D. B., MA *McG*, BA Prof.  
Pusky, A. Asst. Prof.  
Sherman, Mrs. Leah, MA *N Y*, BA Asst. Prof.  
Adams, K. D., BSc LMas *McG* †Lectr.  
Allen, Mrs. Thelma †Lectr.  
Ballmeier, R. †Lectr.  
Opals, Mrs. Beatrice, BA †Lectr.  
Springford, Norma †Lectr.  
Wheeler, O., BA *Bishop's* †Lectr.

### French

Whitelaw, J. H., MA *Oxon* Prof.  
Loui, S., L&L *Paris* Lectr.  
Lorelle, Phyllis, BA †Lectr.

### Geography

Clinch, H. A., BA *Tor*, MA *McG*. Asst. Prof.

### German

Ketter, Annamaria, PhD *Vienne*,  
BLS *McG* Lectr.  
Furstenwald, Maria Anna, BA †Lectr.

### Hebrew

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### History

McCullough, E. E., BA *Qv*,  
MA *McG* Assoc. Prof.  
Ayie, D. E., BA Lectr.  
Nash, C., MA Lectr.

### Humanities

Thompson, C. W., MA *Qv*. Emer. Prof.  
Wasserman, Mrs. Rachel, MA *McG* &  
Radcliffe, PhD *Corn*. Prof.

### Journalism

Macfakine, D. B., MA *Montr*, BA †Lectr.

### Mathematics

Smith, N. E., BA *New Br*, PhD *McG* Prof.  
Bedford, F. W., BA *Loyola (Montreal)*,  
BSc Assoc. Prof.  
Spauling, C. C., BA *Qv* Assoc. Prof.  
Vowles, Edna, BSc *Brit* Assoc. Prof.  
Harrow, M., BSc *McG* Asst. Prof.  
Seneca, J., BSc *Montr*, MSc *McG* Asst. Prof.  
Turgeon, J., MA PhD *Col*. Asst. Prof.  
Byrne, V., MSc *McG* Lectr.  
McIlverath, Mary, BA *Tor*,  
MA *Dryn How* Lectr.  
Boswall, Mrs. Mary, BSc *Dal* †Lectr.  
Deathe, E. W., BA *Dal* †Lectr.  
Dingwall, R. A., BSc *Alta*, MSc *Ill*. †Lectr.  
Schwartz, H. H., BEng *McG*,  
SIM *M I T* †Lectr.  
Stallard, S. E., BSc *McG*, MA *New Br*. †Lectr.  
Stout, E., BA *Oxon*. †Lectr.

### Natural Sciences

Hall, H. F., BA *Eastern (Pa)*, Hon. LL.D.  
McM., DD *Montreal Diocesan* Prof.  
Peterson, E. R., BA *McG* †Asst. Prof.  
Topham, W. T. T., BSc †Lectr.

### Philosophy

Fraser, W. R., BA *McG*, MA *Dal* Prof.  
Angell, R. B., BA *McG* Asst. Prof.

**Physics**

Raudorf, W. R., PhD <i>Vienne</i>	Prof.
Petolas, J. P., BSc	Assoc. Prof.
Lango, L. P., MSc <i>Brun</i> , BSc	Asst. Prof.
Tomas, F., BSc	Curator

**Political Science**

Quinn, H. F., MA <i>McG.</i> , PhD <i>Cal.</i> , BA	Prof.
Foster, R. A., BA	Lectr.
Angell, H., MA <i>McG.</i> , BA	†Lectr.
Schwartz, D., BA <i>Qu.</i> , BCL <i>McG.</i> , LLM <i>Harv.</i>	†Lectr.

**Psychology**

Bridges, J. W., BA <i>McG.</i> , AM PhD <i>Harv.</i>	Prof.
Mahoney, G. M., MSc PhD <i>McG.</i> , BSc	Assoc. Prof.
Zweig, J. P., MA <i>McG.</i> , BSc BSc(Com)	Assoc. Prof.
Irvine, Mrs. Lucille, MA <i>McG.</i>	†Lectr.

**Religious Knowledge**

Smyard, Rev. B. G., BA <i>Bishop's</i> , MA <i>Tor.</i> , BD <i>Trav Coll. Tor.</i> , STM <i>U.T.S. (N.Y.)</i>	Lectr.
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**Sociology**

Potter, H. H., MA <i>McG.</i> , BA	Assoc. Prof.
Jonsson, K., MA <i>McG.</i> , BA	Asst. Prof.
Inslay, D., BEd <i>McG.</i>	Lectr.
Rae, R. C., BA BSW <i>Tor.</i> , STh <i>Trin. Coll. Tor.</i>	Lectr.
Sproule, J. A., MPA <i>McG.</i> , BA	Lectr.
Dumock, H. G., BA <i>Belair</i> , EdD <i>Cal.</i>	†Lectr.
Perutz, Bernice, BA <i>Tor.</i>	†Lectr.

**Spanish**

Stegen, G. F., BA	†Lectr.
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**ADMINISTRATIVE AND OTHER STAFF**

Soc. of the Fac. R. A. Fraser, BA Dir of Admissions D. E. Ayre, BA Asst. to Registrar. J. R. McBride, BA Asst. Deans: J. W. O'Brien, MA *McG.*; G. R. Carnew, BCom, CA Asst. Dean, Student Affairs: M. Flynn, BCom Dir. of Guidance Services: J. A. Sproule, MPA *McG.*, BA, Asst. Counsellors: Jean P. Hader, MA, F. D. Denton, MA Supervisor of Records.

Mona Osborne Supervisor of Accounts F. Sauer Asst. to Principal (Development) J. P. Petolas, BSc Dir. of Physical Education D. Inslay, BEd *McG.* Admin. Asst., Evg. Div. W. D. Johnstone, BA Admin. Asst., Day Div. R. Gates, BA Alumni Executive Dir. and Student Aid Officer J. Ferguson, BA

**GENERAL INFORMATION**

Sir George Williams Univ. (named after the founder of the Y.M.C.A.) has developed from the formal educa. work of the Montreal Y.M.C.A. inaugurated in 1873. First classes at univ. level were offered in 1929 in the evg. division, and day courses in arts, sci. and comm. were inaugurated in 1932. The members of the first class graduated in 1936 and by 1962 some 5654 degrees had been presented. Throughout this period the coll. had been conducted under the terms of the charter of the Montreal Y.M.C.A. (consolidation June 1888). In March 1948, however, the univ. was granted a specific charter by the provincial legislature, establishing it a body corporate and politic, for the purpose of conducting a coll. or univ. in the province of Quebec. Its historic connexion with the Y.M.C.A. is preserved by by-law.

Similar courses are offered and the same standards are maintained in both day and evg. divs., although evg. students are required to attend for a longer period to complete degree requirements.

**CONSTITUTION** The univ. charter is held by the corp. of Sir George Williams Univ., which by its first by-law is the metropolitan bd. of the Y.M.C.A. of Montreal. Ultimate financial control of the univ. is exercised by the corp. Appts. and policy and actual financial management are

the responsibility of the bd. of governors, whose members are elected annually by the bd. itself. The academic policy and programme are the responsibility of the fac. council, which is made up of all full-time profs. and certain *ex-officio* members. The council is responsible to the bd. of governors.

**INCOME** (1961): \$2,376,775 (student fees, 77.7 per cent; provincial govt. grant, 18.3 per cent; Y.M.C.A. subsidy, 2.5 per cent; auxiliary enterprises and other sources, 1.5 per cent.)

**FACULTIES** The facs. of arts, sci. and comm. are closely integrated under the gen. supervision of the dean of the univ. To ensure a broad gen. basis to the educa. programme of each fac., the work of the univ. as a whole is further organized in 4 divs., each supervised by a sr. prof. nat. sci. div.—Sr. Prof. S. Madras, soc. sci. div.—Sr. Prof. J. W. Bridges, humanities div.—Sr. Prof. W. R. Fraser, comm. div.—Sr. Prof. P. T. R. Pugsley.

**LOCATION** The univ. is housed in a large bldg. in central Montreal nr. the Y.M.C.A. bldg., certain of whose facilities are used by the students.

**LIBRARY** 51,683 vols.

**LABORATORIES** Biol., chem., electricity, phys.

Four art studios available for work in fine & appl arts

**ADMISSION.** See Appendix III

**PARTIAL STUDENTS.** Non-matriculated students are admitted to evg courses for partial programmes, provided that their background is such that they may follow the courses desired

**DEGREES.** 4 yrs. from jr matric.—BA, BSc, BCom (longer in the evg courses). No honours degrees or higher degrees are awarded. Attendance at lectures is required for all programmes.

**DIPLOMAS.** 2 yrs from jr matric (longer in evg div.).—AssocArts, AssocSc, AssocCom. 4-yr course for dipl in association sci for profess. Y M C A secretariatship

**CERTIFICATES** 2 yrs.—engin

**FEES.** Annually for tuition—day div. \$300, plus \$25 lab fee for each course involving lab. work, \$15 student soc. fee. Evg. div. \$60 for each 8-month subject, \$30 for each 4-month subject, plus \$25 lab. fee for each course involving lab. work.

**ACADEMIC YEAR.** Sept to May. 2 terms of 15 wks each.

**SUMMER SESSION** offered each yr. in the evg div. only, from May 22 to Aug. 24, credits for which are given towards degrees of BA, BSc and BCom.

**PLACEMENT SERVICE** for students and grads. offered by student guidance office in conjunction with natnl. employment service.

**ASSOCIATION OF ALUMNI.** Grads of the univ belong to the Assocn of Alumni of Sir George Williams Univ.

**RESIDENCE.** Men students may reside in the Y M C A dormitories which occupy space in one of the bldgs. used by the univ. Residential accomm for women students is available in the Montreal Y W C A, within walking distance of the univ.

**MILITARY TRAINING.** Univ contingents prepare students for commissions in Canadian army (reserve), Canadian navy (reserve) and R.C.A.F. radar and communications (reserve).

**STUDENTS' SOCIETIES.** 2 self-governing socs: students' undergrad soc. (day students), and evening students' assocn. (evg. students).

**STUDENT ATHLETIC FACILITIES.** Gymnasium and swimming pool.

**PUBLICATIONS.** Calendar (July); *The Georgian* (students' weekly newspaper); *The Garnet* (graduating class annual); *The Post-Grad* (quarterly of Alumni Assocn.)

**UNIVERSITY BOOKSHOP.** The univ operates a bookshop through which students may obtain all required text-books and supplies.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs completed. extra floor added to main bldg for libr extension

**RETIREMENTS.** H F Hall (principal and vice-chancellor)

### Statistics

#### STUDENTS NUMBERS, 1961-62

	Full-Time	Part-Time
Men	1627	3280
Women	435	1334
Total	2062	4614

Distribution by Faculties\*. Arts, 2790, comm. 1961, engin, 136, sci, 1679. Total. 6566.

Included in the figures above are:—

Postgraduate students, nil.

New admissions, 2731.

Students from other countries, 174 (Countries from which largest numbers came. W. Indies Fed., 91; Hong Kong, 41).

**DEGREES AWARDED (1960-61)** Arts: BA, 254 Comm: BCom, 172 Sci: BSc, 121

**DIPLOMAS AWARDED (1960-61).** AssocArts, 10; AssocSc, 7; AssocCom, 8; association sci, 6.

**CERTIFICATES AWARDED (1960-61).** Engin., 18.

\* Not incl. are 178; 'partial students'

# UNIVERSITY OF TORONTO\*

Founded 1827

with which are federated

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[†=Part-Time]

Note.—In the following list the members of the staff in the Faculty of Arts and Science who are members of staffs of Colleges are indicated thus:

University College (C)

Victoria College (V)

Trinity College (T)

St. Michael's College (M)

**Accounting**, see Pol. Econ.

**Anthropology**

Mellor, T. F., MA *Canad.*, FRSCan

Prof., Hl. of Dept.

Emerson, J. N., PhD *Chic.*, MA *Assoc. Prof.*

Voigt, F. W., BA *Oregon*, PhD *Yale*

*Assoc. Prof.*

Dailey, R. C., MA *PhD*

Vas, Stora, J. W., BA *Oberlin*, MA

PhD *Yale*

*Asst. Prof.*

Ellis, C. D., BA *McG. & Camb.*

PhD *McG.*, MA *Yale & Yeo*

*Asst. Prof.*

Cohen, R., MSc *Wit.*, PhD *BA*

*Asst. Prof.*

Smith, P. E. L., BA *Acad.*, AM *Hav.*

Hinton, T. B., BA *Arizona*, MA

PhD *U.C.L.A.*

Samuels, Mrs. Dorothy, MA

Dopham, R. E., MA

Rogers, E. S., BA *Middlebury*, MA

PhD *New Mexico*

4 Instrs., 4 Assts.

Lectr.

Lectr.

†Lectr.

Sp. Lectr.

Sp. Lectr.

**Archaeology**, see Fine Art

**Architecture**, School of

Howarth, T., PhD *Glas.*, FRIBA

Prof., Dir.

\* Member of the Association of Universities of the British Commonwealth

- Arthur, E. R., MA BArch *Law*, Hon.  
LLD *Mant*, FRIBA Prof.  
Criswell, W. E., BArch Prof.  
Raymore, W. G., BArch Prof.  
Dakin, A. J., BA S.A., PhD *Natal*  
Prof., Hds. Div. of Town & Regional  
Planning  
Barber, R. J. K., BArch Assoc. Prof.  
Murray, J. A., BArch Assoc. Prof.  
Acland, J. H., BArch *Syr*, AM *Harc.*  
Assoc. Prof.  
Adamson, A. P. C., MA *Cam* Assoc. Prof.  
Kent, S. R., BArch Assoc. Prof.  
Robb, G. A., BArch Asst. Prof.  
McLean, W. J., BArch Asst. Prof.  
Groome, R. H., MSc *Wit* Asst. Prof.  
Hall, J. A. Asst. Prof.  
Hugo-Brunt, M., BArch *Cape T.*,  
MCD *Law*, MA *Arch* *Can.* Asst. Prof.  
Elken, A., DipEngArch *Munich & Helsinki* Asst. Prof.  
Goulding, W. S., BArch *Harv.*, BA Asst. Prof.  
Lee, D. H., BArch *McG.*, MSc *Ill.* Asst. Prof.  
Watts, F. H. Asst. Prof.  
Whelan, R., BArch *Mant*, MA *Arch* *Harv.* Asst. Prof.  
Mattyasovsky, E., PhD *Bud* Asst. Prof.  
Halfhide, E. W., BArch *McG.* Asst. Prof.  
Grossman, I., BArch Lectr.  
Bess, G., DipArch *Zab*, MSc *Okla.* Lectr.  
Moriyama, R., MArch Sp. Lectr.  
1 Inst., 1 Res. Assoc.

Art, see Fine Art

### Astronomy

- Heard, J. F., BA *W. Ont.*, MA *McG.*,  
PhD *McG & Lond*, FRSCan  
Prof., Hds. of Dept., Dir. of Observatory  
MacRae, D. A., AM PhD *Harv.*, BA Prof.  
Hogg, Mrs. Helen B. S., AB DSc *Mt Holyoke*,  
AM PhD *Radcliffe*, FRSCan Prof.  
Van den Bergh, S., AB *Prin*, MSc *Ohio*,  
DrRerNat *Göt.* Assoc. Prof.  
Northcott, Ruth J., MA Asst. Prof.  
Ferns, J. D., MSc *Cape*, PhD *Indiana*  
Asst. Prof.  
Demarquo, P. R. Asst. Prof.  
4 Demar., 1 Res. Asst.

Biology, see Zool.

### Botany

- Bodenhausen, N. P., DSc *Asst*  
Prof., Chairman of Dept.  
Bailey, D. L., BA *Qu.*, MS PhD *Mant.*,  
FRSCan (Plant Pathol.) Prof.  
Bannan, M. W., BA PhD, FRSCan Prof.  
Forward, Dorothy F., PhD *Camb. & Tor.*,  
MA Assoc. Prof.  
Badwell, R. G. S., BSc *Dal*, PhD *Qu.* Assoc. Prof.  
Cann, R. F., MA PhD Assoc. Prof.  
Super, J. H., MA *McM.*, PhD *Harv.* Assoc. Prof.  
Rothfels, K. H., BA PhD Assoc. Prof.

- Morgan-Jones, J. F., MSc *Mant.* Asst. Prof.  
Bray, J. R., BA *Ill.*, PhD *Wit.* Asst. Prof.  
Sarkar, P., MSc *Cole*, PhD *Mant.* Lectr.  
Luck-Allen, Mrs. E. Robena, SB *Harvard*,  
PhD Lectr.  
Earl, R. O., BA *Qu.*, MSc PhD *Chic* Sp. Lectr.  
4 Assts., 13 Demas.

### Business, School of

- Mann, O. W., BA *McM.*, PhD Prof., Dir.  
Graham, T. C., MBE, BSc Prof.  
Coutts, W. B., BA Prof.  
Presgrave, R., BSc Prof.  
Sawatsky, J. C., BA *Mant.*, MA PhD  
Assoc. Prof.  
Thomson, W. S., MA *Cam*, MCom Assoc. Prof.  
Toshiba, F. C., PhD *Chic* Assoc. Prof.  
Sawyer, J. A., BCom MA Assoc. Prof.  
Meyer, M. S., PhD *Cal*, MCom Asst. Prof.  
Peapst, J. V., MCom *McG.* Asst. Prof.  
Sawyer, J. S., BSc MCom Asst. Prof.  
Vosburgh, R. E., BS *Indiana*, MBA *Indiana*  
Asst. Prof.  
Crispo, J. H. G., PhD *M.I.T.*, BCom Asst. Prof.  
Larkin, B., LL.M. *Harv.*, MA LLB Sp. Lectr.  
Lane, W., OBE, BSc *McG.*, MA  
MED *Alta.*, PhD *Lond.* Sp. Lectr.  
Hood, W. C., BA *Mt. All.*, MA PhD Sp. Lectr.  
4 Assts.

Chemistry, see also Food Chem., and under  
Applied Science and Engineering, below

- LeRoy, D. J., MA PhD, FRSCan Prof., Hds. of Dept.  
Gordon, A. R., OBE, MA PhD, FRSCan Prof.  
Wright, G. F., MBE, BSc  
PhD *Indiana State Agric.* Prof.  
Bennett, F. E., MA *McM.*, FRSCan Prof.  
Yates, P., BSc *Lond.*, MSc *Dal*, PhD *Yale* Prof.  
Wetmore, F. E. W., BSc *New Br.*, MA  
PhD, FRSCan Prof.  
Lairman, F. R., BEM, MA PhD Assoc. Prof.  
Lister, M. W., MA DPhil *Oxon.* Assoc. Prof.  
Rao, J. J., BA *McM.*, MA PhD, FCIC  
Assoc. Prof.  
Allen, A. D., BSc PhD *Lond.* Assoc. Prof.  
Bacok, A. G., BA PhD Assoc. Prof.  
Polyani, J. C., MSc PhD *Manc.* Assoc. Prof.  
Decker, J. M., DSc *Louvain* Assoc. Prof.  
Page, J. A., MSc *McM.*, PhD *Harv.* Asst. Prof.  
Hart, R., BA *Woster*, MA PhD *Harv.*  
Asst. Prof.  
Dignam, M. J., BA PhD Asst. Prof.  
Danyluk, S. S., MSc *Mant.*,  
PhD *Reims* Asst. Prof.  
Harrison, A. G., MSc *W. Ont.*, PhD *McM.*  
Asst. Prof.  
McLean, S., BSc *Glas.*, PhD *Cov.* Asst. Prof.  
Valdez, J. P., PhD *Cam*, MA Asst. Prof.  
Robinson, E. A., BSc PhD *Lond.* Asst. Prof.  
Dove, J. E. Asst. Prof.  
Burns, G. Asst. Prof.  
Barradas, R. G. Asst. Prof.  
Steel, C., BSc PhD *Edu* Asst. Prof.

Yates, K., DPhil Oxon, BA MSc PhD

Zacharson, M. I. R., MA  
1 Instr., 1 Sr. Demr., 55 Demas., 1 Res.  
Assoc.**Child Study, Institute of**Benhardt, K. S., PhD Chic., MA Du  
Milchcamp, Dorothy A., MANorthway, Mary L., MA PhD Assoc. Prof.  
Graphko, M. F., BA *Mont.*, MA PhDCoush-Bowden, Althus J., MEd *Tyris*  
Fletcher, Margaret I. Lectr., Supervisor  
Foster, Mrs. Anne R., MA Lectr.

19 Instrs., 4 Res. Assocs., 1 Res. Asst.

**Chinese Studies, see East Asiatic Studies****Classics**Woodbury, L. E., BA *Mont.*, AM  
PhD *Harc.* Prof., Hd. of Dept. (C)Bagnani, G., DLitt *Rome*, FRSCan Prof. (C)  
Wallace, W. P., PhD *Texas H.*,  
BA *Oxon.* & *Tor.* Prof. (C)Heschelheim, F. M., PhD Hon. DrAg *Giesse*  
Assoc. Prof. (C)Goold, G. P., PhD *Leid.* Assoc. Prof. (C)  
Rudd, W. J. N., MA PhD *Dub.* Asst. Prof. (C)Thomson, D. F. S., MA *Oxon.* Asst. Prof. (C)  
Shepherd, R. M. H., MA *Cambr.* Asst. Prof. (C)Norwood, Mrs. Frances M. H., PhD *Wiz.*,  
MA Asst. Prof. (C)Rist, J. M., BA *Cambr.* Lectr. (C)  
Elliot, A. F., MA *Oxon.* Lectr. (C)Robson, D. O., MA PhD  
(Latin) Prof., Chairman (V)Keyes, G. L., PhD *Prin.*, MA Assoc. Prof. (V)  
Grant, J. R., AM PhD *Harc.*, BAde Montemolin, D. P., DLitt *Nanchi*  
(Greek) Asst. Prof. (V)Sparshott, F. E., MA *Oxon.* Lectr. (V)  
Dale, A., MA *Calif.*, PhD *N.E.*, BA Lectr. (V)Thompson, K. R., BA *Qu.*, AM *Harc.*  
Lectr. (V)Giulio, G. M. A., MA *Cambr.*, FRSCan  
Prof., Hd. of Dept. (T)Comacher, D. J., MA *Qu.*, PhD *Chic.*  
Assoc. Prof. (T)White, Mary E., MA *Oxon.* & *Qu.* Assoc. Prof. (T)  
Emp, A. J., MA *Chic.*, MLitt *Cambr.*, BACole, J. W., MA *Oxon.* Asst. Prof. (T)  
Dalsell, A., MA *BLitt Dub.* Asst. Prof. (T)Philip, J. A., DLitt *Florence*, BA Asst. Prof. (T)  
Kennedy, Rev. V. L., LLdL *Stras.*,  
ArchD *Rome*, MA Prof. (M)O'Donnell, Rev. J. R., MA PhD,  
FRSCan Prof. (M)Wey, Rev. J. C., MA Prof. (M)  
Sheidan, Rev. J., BA *N.U.I.*, MA PhD  
Prof., Hd. (M)Blindus, St. Mary, MA Assoc. Prof. (M)  
McNeil, Rev. D. J., MA Asst. Prof. (M)  
Walgrave, Rev. A. F., MA Asst. Prof. (M)  
Rakus, A., PhD *Bratislava* Asst. Prof. (M)  
Fahwick, D., MA *Oxon.* Asst. Prof. (M)  
Stella Marce, Sr. M., PhD *Corn.*, MA Lectr. (M)  
Lee, Rev. M. O., PhD *Br. Col.*, MA Lectr. (M)  
Stewart, D. T., BA *Loyola*, MA *Corn.* Lectr. (M)  
1 Instr. (T), 1 Teaching Fellow (C) and  
2 (M)**Dentistry, see below****East Asiatic Studies**Dobson, W. A. C. H., MA *Oxon.*  
Prof., Hd. of Dept.Walmsley, L. C., BA *DPhil* Assoc. Prof.  
Shih, C. C., BA *Peking*, BD *Hartford*, MAPhD *Chic.* Asst. Prof.  
Smith, R. M., MA *St. And.* & *Oxon.* Asst. Prof.Ueda, M., BA *Kobe*, MA *Nelrasaka*,  
PhD *Wash.* Lectr.Ward, A. H. C., BA Lectr.  
3 Instrs.**Economics, see Pol. Econ.****Education, see Ontario Coll. of**

Education, p. 375

**Embryology, see Zool.****Engineering, see Applied Science and Engineering, below****English**Woodhouse, A. S. P., AM *Harc.*, Hon.  
DLitt *Acad.*, McM & *Maur.*, Hon.  
LLD *Br. Col.*, LHD *Chic.*, BA,FRSCan Prof., Hd. of Dept. (C)  
Endicott, N. J., BLitt *Oxon.*, BA *Oxon.* &  
*Tor.* Prof. (C)MacGillivray, J. R., PhD *Harc.*, MA,  
FRSCan Prof. (C)Priestley, F. E. L., MA *Alta.*, PhD, FRSCan,  
FRSL Prof. (C)Besanger, J. B., AM PhD *Harc.* Prof. (C)  
Suriuk, E., BA *Mont.*, MA PhD Prof. (C)Dimes, R., BLitt *Oxon.*, Hon. LLD *Alta.*,  
Hon. DLitt *Nfld.* Prof. (C)Harris, R. S., MA PhD *Mich.* Assoc. Prof. (C)  
Watt, F. W., BA *Br. Col.*, BLitt *MA Oxon.*,  
PhD Asst. Prof. (C)McPherson, H. A., BA *Mont.*, MA *W. Ont.*,  
PhD Asst. Prof. (C)Bentley, G. E., BA *Prin.*, DPhil *Oxon.*  
Asst. Prof. (C)Carroll, J. J., BA *Ill.*, MA *Oxon.*,  
PhD *Harc.* Asst. Prof. (C)Leyler, J. F., BA *Oxon.* Asst. Prof. (C)  
MacCallum, H. R., MA PhD Asst. Prof. (C)Pritchard, A., BA *Br. Col.*, PhD Lectr. (C)



Dembowski, P. F., BA *Br Col*, DUParis,  
PhD *Calif* Asst Prof (C)  
Balthazard, Isabelle G., MA Lectr (C)  
Curtis, A. R., MA *Wales* Lectr (C)  
Mathews, P., AM *Herts*, BA Lectr (C)  
MacDonald, Marguerite D., DUParis Lectr (C)  
Moss, P. C., BA *McM*, MA BLS Lectr (C)  
Ducetec, P. R., MA *Penn* Lectr (C)

Kayo, E. F., L&L Dupl'd ÉtSup  
DUBéançon, MA Lectr (C)  
Trehewey, W. H., PhD *Chc*, MA,  
FRSCan Prof., Chairman of Dept (V)

Wood, J. S., BA *Leeds*, MA *Burn*,  
DUParis Prof (V)

Hare, F. A., MA Prof (V)  
Risë, Laure, Dupl'd ÉtSup *Neuchâtel*,  
MA PhD Prof (V)

Ross, A. C. M., MA *McM*, PhD  
Assoc. Prof. (V)

Jeanes, R. W., DUParis, BA Asst Prof (V)  
Rathe, C. E., PhD *Sy*, MA Asst Prof (V)

Rathé, Mrs. Alice, L&L Dupl'd ÉtSup *Paris*  
Lectr

Ricketts, P. T., BA *Phil Birm* Lectr  
Rogers, W. S., AM *Cal*, BA  
Prof., Hd. of Dept (T)

Kennett, W. T. E., BA *Br Col*, MA  
PhD *Penn* Assoc. Prof. (T)

Ruddock, W. J., MA *Que*, BA Asst Prof (T)  
Bassan, Fernando, D&L *Pavia* Asst Prof (T)

Bondy, Rev. L. J., MA *Chc*, PhD *John H*,  
D&L *Mont*, Hon LLD *Laval & Ott.*,  
BA Prof., Hd. of Dept (M)

Lajcman, Rev. E. J., MA Assoc. Prof. (M)  
Olga, St. Mary, PhD *Laval*, MA  
Assoc. Prof. (M)

O'Gorman, Rev. J. D., PhD *Cal*, MA  
Assoc. Prof. (M)

Marne-Thébaud, Sr., MA PhD Asst Prof (M)  
Donovan, Rev. R. B., PhD *Yale*, MA  
Asst. Prof. (M)

St.-Magdalen, St. Mary, MA Asst Prof. (M)  
Connors, St. Mary, PhD *Laval*, MA  
Asst. Prof. (M)

Stroebel-Collerville, Mrs. C., DronDroit  
*Lyon* Lectr

Beinadette, Sr. Mary, MA Lectr (M)  
Eliasson, St. Mary, MA PhD *Laval*, BA  
Lectr. (M)

Finl, Rev. R. J., MA STB Lectr  
Ruth, Rev. E. L., BA *W. Ont*, MA *Cal*,  
PhD *Laval* Sp. Lectr

3 Instrs. (C), 3 (V) and 1 (T), 4 Teaching  
Fellows (C), 3 Fellows (V), 2 Oral  
Instrs. (V)

**Genetics, see Zool.**

### Geography

Putnam, D. F., BSA PhD Prof., Hd. of Dept.  
Spelt, J., MA *Wis.*, PhD *Utrecht* Assoc. Prof.

Kerr, D. P., BA *Br Col*, MA PhD Assoc. Prof.  
Denn, W. G., MA PhD *McG* Asst. Prof.

Watts, F. B., MA *Syr*, BA Asst. Prof.  
Field, N. C., MA PhD *Wash*, BA Asst. Prof.

Putnam, G., BA *Sacred Heart (N.B.)*,  
L&L *Laval* Asst. Prof.  
Baskine, D. S., BSc *Acad*, MA Lectr  
Burton, I., MA *Birm* Lectr  
3 Instrs., 6 Teaching Fellows

### Geological Sciences

Langford, G. B., PhD *Conn.*, BSc, FRSCan  
(Mining Geol.) Prof., Hd. of Dept.

Fritz, Madeleine A., BA *McG*, MA PhD,  
FRSCan (Palaeontol.) Prof.

Moorhouse, W. W., PhD *Cal*, MA,  
FRSCan (Geol.) Prof.

Curtis, J. B., BA *McM*, MA PhD Assoc. Prof.  
Dennis, R. E., BSc *Br. Col*, PhD Assoc. Prof.

Smith, F. G., MSc *Mount*, PhD Assoc. Prof.  
Nuffield, E. W., BA *Br Col*, PhD Assoc. Prof.

Anderson, D. V., MA PhD Assoc. Prof.  
Berkley, F. W., MA *Conn.*, PhD Assoc. Prof.

Peach, P. A., BScEd MA PhD Asst. Prof.  
Gorman, D. H., BSc *New Br.*, PhD Asst. Prof.

Gross, W. H., BSc *Br Col*, MA PhD Asst. Prof.  
Gutman, J., MSc *McM*, PhD *Conn.* Lectr

Tovell, W. M., MSc *Cal. Tech*, BA PhD  
Sp. Lectr

Meen, V. B., MA PhD †Sp. Lectr  
1 Instr., 14 Assts., 2 Res. Assts

### German

Boschenstein, H., PhD *Rostock*, FRSCan  
Prof., Hd. of Dept (C)

Sinden, Margaret J., BA PhD Assoc. Prof. (C)  
Malmes, H. N., PhD *Ohio State*, MA

Assoc. Prof. (C)  
Hofrichter, Laura, MA PhD Asst. Prof. (C)

Wache, H. G., Dup *Odessa*, MA PhD  
Asst. Prof. (C)

de Boer, R., LittD *Amst* Lectr. (C)  
Bauer, W., MA Lectr. (C)

Surtees, J. A., BA Prof., Hd. of Dept. (V)  
Arnold, R. K., PhD *Prague* Prof. (V)

Field, G. W., MA PhD Assoc. Prof. (V)  
Farquharson, R. H., BA *Br Col*,  
BA *Calif*, Lectr (V)

Lewis, C., MA *Oxon*, Prof., Hd. of Dept. (T)  
Joyce, D. A., BA *McG*, AM *Harv.*, PhD

Asst. Prof. (T)  
Casson, Mrs. Victoria M., MA PhD  
Assoc. Prof. (M)

1 Instr. (T) and 1 (V), 1 Teaching Fellow  
(M), 1 Fellow (V)

### Graduate Studies, School of

Gordon, A. R., OBE, MA PhD, FRSCan Denn  
(Grad. instrum. and supervision are under-  
taken by all Depts. of the Univ.)

### History

Careless, J. M. S., AM PhD *Harv.*  
Prof., Chairman of Dept

Creighton, D. G., MA *Oxon*, Hon LLD  
*New Br.*, *Que*, *Sask.* & *Br. Col.*, Hon.

DLitt *Mount & McG*, BA, FRSCan Prof.



- Brown, G. W., MA PhD *Chic*, Hon LLD *Br Col.*, BA, FRSCan  
 Thornton, A. P., MA Glas, DPhil Oxon, } Prof.  
 Wilkinson, B., MA PhD Manc., FRSCan } Prof.  
 Saunders, R. M., MA *Chic*, PhD *Corn.* } Prof.  
 Siney, C. F., OBE, CD, AM PhD *Prm*,  
 Hon LLD *At All*, BA Oxon &  
 Tor, FRSCan  
 Powicke, M. R., MA Oxon Assoc Prof  
 Conacher, J. B., MA Qu, PhD Harv. Assoc Prof  
 Craig, G. M., PhD *Manc.* Assoc Prof  
 Spencer, R. A., BA McG, DPhil Oxon, Assoc Prof  
 MA  
 Cairns, J. C., PhD *Corn*, MA Assoc Prof  
 McNaught, K. W., MA PhD Asst. Prof.  
 Saywell, J. T., MA *Br. Col.*, PhD Harv. Asst. Prof.  
 Nelson, H. L., MA *Corn*, PhD *Cal*, BA Asst. Prof.  
 Peepenburg, W. W., MS *Wis*, PhD *Camb* Asst. Prof.  
 Zaslav, M., BA BED *Alta*, MA PhD Asst. Prof.  
 White, P. C. T., BA *Br. Col.*, MA *Camb*, PhD *Manc.* Asst. Prof.  
 Macdonald, D. R. H., AM PhD *Harv*, BA Asst. Prof.  
 Rose, E. E., MA *Camb* Lectr.  
 Beattie, E. M., BA *Corn*, PhD *Ill* Lectr.  
 Cook, G. R., BA *Manc*, MA Qu, PhD Lectr.  
 Lloyd, T., MA DPhil Oxon Lectr.  
 Meade, A. L., PhD *Manc*, BA Lectr.  
 Beattie, J. M., BS *San Francisco*, MA *Calif* Lectr.  
 Cienciala, Anna M., BA *Liv*, MA McG Lectr.  
 Clough, C. H., MA DPhil Oxon Lectr.  
 Fry, M. G., BSc(Econ) *Lond* Lectr.  
 Gerson, J. J., BA *Drex*, MA *Cal* Lectr.  
 Goffart, W. A., AM PhD *Harv* Lectr.  
 Senior, H., MA PhD McG Lectr.  
 McDougall, D. J., MA Oxon, BA Sp. Lectr.  
 & Instra, 7 Assts, 3 Teaching Fellows
- History, Ancient, see Classics**
- Household Science**
- McLaren, Barbara A., BSc *Alta*, MS *Manc*, PhD *Wis* Prof, Hd of Dept  
 Upton, Elizabeth E., MA Asst Prof  
 Armstrong, Iva, MA *Br Col* Asst Prof  
 Iwan, Mrs Kathleen E., MA *Cal*, BA Lectr.  
 Halbeust, Mrs Dorothy M., MA Lectr.  
 Leach, Martha, BArch Lectr.  
 Villars, Mrs. Mildred, MA *Leeds* Lectr.  
 Smudich, H., BA Lectr.  
 Phillips, Marjorie B., BSc Lectr.  
 Coleman, Mrs Patricia F., BSc *Manc*, MS *Alta* Lectr.  
 Fallon, Mrs Barbara A., MS *Drexel Tech* Lectr.  
 Inst  
 Hinchley, Elizabeth J., BA Lectr.  
 Preston, Mrs. Phyllis, CFA *Yale*, BA Lectr.  
 Park, Edna W., MA Sp Lectr.  
 1 Instr, 1 Asst, 1 Res. Asst
- Hygiene, School of**
- Rhodes, A. J., MD, FRCP, FRSCan (Microbiol.) Prof, Dir.  
 Brown, M. H., OBE, MD BSc(Med) DPH (Pub. Health) Prof, Hd of Dept  
 Parker, R. C., BA DSc *Acad*, PhD *Yale* (Exper. Cytol.) Prof.  
 Wishart, F. O., MA MD DPH (Microbiol.) Prof.  
 Le Roche, W. H., BSc BCh MD *Roor*, MPhil *Harv* Prof, Hd of Dept  
 MacLean, D. L., OBE, BSc(Med) DPH MD (Pub. Health) Prof  
 Fraser, Frieda H., BA MB (Microbiol.) Prof.  
 Agnew, G. H., MD Hon LLD *Sask*, FACP (Hosp. Admin.) Prof  
 Pullin, A. M., BA PhD, FRSCan (Parasitol.) Prof  
 Mosley, W., MD CM McG, DPH (Pub. Health Admin.) Prof.  
 Brown, J. R., BSc MB BS PhD *Lond*, (Physiol. H.) Prof, Hd of Dept  
 Reid, D. B. W., MA McG, MSc *Virginia* Polytch. Inst. Prof.  
 Hastings, J. E. F., MD DPH Prof  
 Simonovitch, L., PhD McG (Microbiol.) Prof  
 MacPherson, L. W., PhD *Edin* (Vet. Pub. Health) Prof.  
 Stumet, Eugene M., BSHA MHA *Northwestern* (Hosp. Admin.) Prof  
 Wilson, R. J., MA *Br Col*, MD DPH (Pub. Health) Assoc Prof  
 Fisher, A. M., MA PhD Assoc Prof  
 MacLeod, D. R. E., BA MD BSc(Med) DPH (Epidemiol. & Biometrical) Assoc Prof  
 Berry, A. E., MSc CE PhD (Pub. Health Engin.) Assoc Prof  
 Goodwin, J. E., BSc PhD (Physiol. II) Assoc Prof  
 Freeman, R. S., BS MA PhD *Ala* (Parasitol.) Assoc Prof.  
 Piercey, W. D., BSc MD CM *Dal*, DOMS *Lond* (Hosp. Admin.) Assoc Prof  
 Benton, G. H., MA PhD (Nutrition) Assoc Prof  
 Chute, K. F., BA MD, FRCP(Can) (Med. Case) Assoc Prof.  
 Finabank, J. B., MD PhD (Physiol.) Assoc Prof  
 Sutherland, R. B., MD CM Qu, DPhil DIII Assoc Prof  
 McLenn, D. M., BSc BS MD *Alta*, (Microbiol.) Asst. Prof  
 Finkas-Himley, Mrs. Hannah, MSc PhD *Yennelon* (Microbiol.) Asst. Prof.  
 Schwenger, C. W., MD DPH (Pub. Health) Asst. Prof.  
 Macromatou, E., MD DPhil DIII Asst. Prof.  
 Palm, G. K., BSc McG, DIII Asst. Prof.  
 Hoessner, Mrs. Judith F. M., MA *Br. Col.*, PhD Assoc Prof.  
 MacLean, Myra, MA Lectr.  
 Seyfried, Mrs. Patricia L., MSA Lectr.  
 Voorn, Margaret J., MA Lectr.  
 Fischer, J. B., MSA Sp. Lectr.

Leewood, S., BA C C N Y, MBA <i>Chc.</i> , MPH <i>Harc</i>	Sp. Lectr.	Levy, K. L., MA PhD	Assoc. Prof.
Shapiro, J. E., OBE, MD IV <i>Ont</i>	Sp. Lectr.	Buckley, Oles D., DLat <i>Gensa</i> , MA <i>Oxou</i>	Assoc. Prof.
Moss, G. W. O., MD DPH	Sp. Lectr.	Molinaro, J. A., MA PhD	Asst. Prof.
Martin, G. K., MD DPH	Sp. Lectr.	Goodson, A. M., PhD <i>Harc</i>	Asst. Prof.
Webb, Jean F., BSc <i>Acad</i> , MD CM <i>McG</i> , DPH	Sp. Lectr.	Dawson, T. L. C., MA PhD	Asst. Prof.
McLaren, K. S., BA <i>MEd Sask</i> , DHA, (Hosp Admin)	Sp. Lectr.	Baisley, T. B., MA PhD	Asst. Prof.
Brown, W. G., MD DPH	Sp. Lectr.	McCready, W. T., MA PhD <i>Chc</i>	Asst. Prof.
Cutney, D. V., MD DPH	Sp. Lectr.	Romero, L., MA PhD <i>Wash</i>	Asst. Prof.
Edge, G. A., BVSc <i>DPVH</i>	Sp. Lectr.	Ums, M. W., MA PhD	Asst. Prof.
King, R. M., MD DPH	Sp. Lectr.	Gulroy, J., BA <i>B. Col</i> , MA PhD <i>Chc.</i>	Lectr.
Sellers, A. H., CD, BA MD DPH	Sp. Lectr.	Sunscroft, J. A., DLat <i>Mexico</i> , MA	Sp. Lectr.
Ekerton, L. E., MD PhD	Sp. Lectr.	Lee, U., DPhil <i>Göt</i>	
Reed, A. R. J., BA <i>Sask</i> , MD CM <i>McG</i> , DPH	Sp. Lectr.	4 Instrs, 6 Assts, 1 Teaching Fellow	
Balmer, F. M. R., MB BSc(Med)	Sp. Lectr.		
Sturgeon, L. M. R., MB DPH	Sp. Lectr.		
Nixon, M. C., BSA	Sp. Lectr.		
Caverley, D. S., MAsc	Sp. Lectr.		
Charison, K. C., MD CM	Sp. Lectr.		
Sebenmann, C. O., Chem Eng <i>Zur</i> , Ding <i>T.H. Karlsruhe</i> , FCIC	Sp. Lectr.		
Clarke, W. T. W., MD, FRCP <i>Can</i>	Sp. Lectr.		
Young, E. J., CD, MD DPH	Sp. Lectr.		
Thatcher, F. S., MSc PhD <i>McG</i>	Sp. Lectr.		
Roy, T. E., BA <i>Acad</i> , MD CM <i>McG</i>	Sp. Lectr.		
	Sp. Lectr.		
Ross, Marion, MD BSc(Med)	Sp. Lectr.		
O'Hara, W. L., MD CM <i>Qu</i> , DIH	Sp. Lectr.		
McQueen, R. J., BA DHA	Sp. Lectr.		
McNab, J. A., BCom <i>Br Col</i> , DHA	Sp. Lectr.		
	Sp. Lectr.		
Macmillan, J. W., PhD <i>Can</i> , BA	Sp. Lectr.		
Holling, S. A., BA MD CM <i>McG</i>	Sp. Lectr.		
Bynde, E. T., BSA MSc PhD <i>McG</i>	Sp. Lectr.		
Finlayson, Margueret, MSc <i>Alta</i>	Sp. Lectr.		
Goldman, M., BA <i>Qu</i> , MSc PhD <i>Mount</i>	Sp. Lectr.		
	Sp. Lectr.		
Greenberg, L., BSA MSc <i>Sask</i> , PhD <i>McG</i>	Sp. Lectr.		
1 Asst, 1 Demo., 2 Res Assocs, 2 Res Asses., 1 Res Fellow, 5 Fellows, 1 Assoc			

## Islamic Studies

Wickens, G. M., MA <i>Canb</i>	Prof., Hd. of Dept (C)
Savory, R. M., MA <i>Oxon</i> , PhD <i>Lond</i>	

Ahmad, A.	Assoc. Prof.
Kottapeter, C. M., BA <i>Harc</i> , MA <i>McG</i>	Lectr.
Marmura, M. E., BA <i>Wit</i> , MA PhD <i>Mach</i>	Lectr. (C)

## Italian and Hispanic Studies

Stagg, G. L., MBE, MA <i>Canb</i> , AM <i>Harc</i>	Prof., Hd. of Dept
Cano, J., BA <i>San Ildefonso (Toledo)</i> , AM PhD <i>Cal</i>	Prof.
Parker, J. H., MA PhD	Prof.
Chandler, S. B., BA PhD <i>Lond</i>	Assoc. Prof.
Corrigan, Beatrice M., MA PhD	Assoc. Prof.
Marin, D., LLB <i>Madrid</i> , BA <i>Lond</i> , PhD	Assoc. Prof.

## Law

Wright, C. A., QC, BA <i>W Ont</i> , Hon LLD <i>Br Col</i> , <i>W Ont</i> & <i>Qu</i> , SJD <i>Harc</i>	Prof
Abel, A. S., BA LLM SJD <i>Harc</i> , JD <i>Harc</i> & <i>Iowa</i>	Prof
Leskin, B., QC, LLM <i>Harc</i> , MA LLB	Prof.
La Brec, F. E., BA LLB <i>Alta</i> , LLM <i>Djur</i>	Prof.
Midner, J. B., LLB <i>Dal</i> , LLM <i>Harc</i>	Prof.
Willis, J., BA <i>Oxon</i>	Prof.
Macdonald, R. St J., BA <i>St FX</i> , LLB <i>Dal</i> , LLM <i>Lond</i> & <i>Harc</i>	Prof
McWhinney, E., LLM SJD <i>Yale</i>	Assoc. Prof.
Dunlop, J. B., CD, BA <i>Qu</i> , LLM <i>Harc</i> , LLB	Asst. Prof.
Green, B., BA <i>McM</i> , LLM <i>Harc</i> , LLB	Asst. Prof.
MacGuigan, M. R., BA <i>St. Dun</i> , LLM <i>Cal</i> , PhD	Asst. Prof.
Rank, R., LLM <i>Tor</i> , <i>Djur</i> <i>Harc</i> , ML <i>Wash</i>	Asst. Prof.
Risk, R. C. B.	Asst. Prof.
Grossberg, B., QC	Sp. Lectr.
Macaulay, R. W., QC, BA	Sp. Lectr.
McLenn, W. E., QC, BA LLB <i>Mount</i>	Sp. Lectr.
Goodman, W. D., BCom	Sp. Lectr.
Kalgour, D. G., LLM <i>Harc</i> , BA	Sp. Lectr.
Palmer, E. E., BA <i>William &amp; Mary</i> , MA <i>Yale</i> , LLM	Sp. Lectr.
2 Assts	

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Education (p. 376)

## Mathematics

De Lury, D. B., MA PhD	Prof., Chairman of Dept.
Webster, W. J., BA <i>Canb</i> , Hon. DSc <i>Wit</i>	Prof.
Atkinson, F. V., DPhil <i>MA Oxon</i>	Prof.
Coxeter, H. S. M., BA PhD <i>Canb</i> , LLD <i>Alta</i> , FRSc, FRSCan	Prof.
Scherk, P., PhD <i>Göt</i> , FRSCan	Prof.
Sheppard, N. E., MA, FIA	Prof.
Robinson, G. de B., MBE, PhD <i>Canb</i> , BA, FRSCan	Prof.
Finster, D. A. S., AM PhD <i>Prin</i> , MA	Prof.
Duff, G. F. D., PhD <i>Prin</i> , MA, FRSCan	Prof.
Crosby, W. J. R., MA PhD	Assoc. Prof.
Tutte, W. T., MA MSc PhD <i>Canb</i> , FRSCan	Assoc. Prof.

## CANADA

- Rooney, P. G., BSc *Alta.*, PhD *Cal.Tech*  
 Assoc. Prof.
- Saule, D. C., MA  
 Chalk, J. H. H., PhD *Leeds & Camb*  
 Assoc. Prof.
- Pillow, A. F., BA *Meib.*, PhD *Camb.*  
 Assoc. Prof.
- Kahan, W., MA PhD  
 Asst. Prof.
- Bransford, B., SB *M.I.T.*, MS PhD *Mich*  
 Asst. Prof.
- Wormleighton, R., PhD *Ym.*, MA  
 Abrahamsen, B., MSc *Cape, SM*  
 PhD *Chc.*  
 Asst. Prof.
- Naylor, D., PhD *Leeds*  
 Asst. Prof.
- Soriba, C. J., DiRetNat *Giesse*  
 Asst. Prof.
- Leicht, J. B., PhD *DrHabil Jusschuch*  
 Asst. Prof.
- Sen, D. K., MSc *Potus*  
 Asst. Prof.
- Sheik, F. A., MSc *McM.*, BA PhD  
 Asst. Prof.
- Ross, R. A., MA PhD  
 Lectr.
- Shale, D., SM PhD *Chc.*  
 Lectr.
- Vanstone, J. R., PhD *Natal*, MA  
 Lectr.
- Trost, S. M., SB *Annopolis*, BSc *Tn*  
 Lectr.
- Schubert, C. F., MSc *Adel*  
 Lectr.
- Ranger, K. B., BSc PhD *Leeds*  
 Lectr.
- Hastings, W. K., MA  
 Lectr.
- Brecht, D. R., MSc *N.Z.*, MA *Meib*  
 Lectr.
- Bunsade, R. K.  
 Lectr.
- Chapman, P. B., BSc *EE PhD Syd.*  
 Lectr.
- Clarke, D. A., MA *W. Ont.*  
 Lectr.
- Reed, D. B. W., MA *McG.*, MSc *Virginia*  
 Polytech. Inst.  
 Sp. Lectr.
- Gottlieb, C. C., MA PhD  
 Sp. Lectr.
- 4 Instis., 1 Res. Asst., 12 Teaching Fellows
- Medieval Studies, see Philos.**
- Medicine and Surgery, see below**
- Metalurgy, see under Applied Science and Engineering, below**
- Mineralogy, see Geol. Sci.**
- Music**
- Neel, L. B., BE, BA *Camb.*  
 Dean, Royal Conserv. of Music of Toronto
- Walter, A. M., JurUtrDr *Prague* Dn. of Fac.
- Mazzoleni, E., MusB *Oxon.*, MusD *Roch.*  
 BA  
 Principal, Sch. of Music
- Rosevear, R. A., AB *Corn.*, MMus *Roch.*  
 (School M.) Prof.
- Oluck, H. J., BS *N.Y.*, MA *Cal.* Assoc. Prof.
- Johnston, A. R., BMus *Northwestern*, MMus  
 PhD *Roch.* (School M.) Assoc. Prof.
- Weinzwilg, J. J., MMus *Roch.*, MusBoc  
 Assoc. Prof.
- Schaeffer, M., MusB AB *Oberlin*,  
 PhD *Western Reserve*  
 Assoc. Prof.
- Schabas, E., BS *MA Cal*  
 Assoc. Prof.
- Morawetz, O., MusDoc  
 Asst. Prof.
- Pinto, A.  
 Asst. Prof.
- Rick, G.  
 Asst. Prof.
- Robbins, R.  
 Asst. Prof.
- Mankovits, B.  
 Asst. Prof.
- Bedworth, J., MusM  
 Asst. Prof.
- Ridout, G.  
 Asst. Prof.
- Kenns, T.  
 Penker, C., MusDoc, FRCO  
 Lectr.  
 Sp. Lectr.
- Near Eastern Studies**
- Winnett, F. V., MA PhD, FRSCan  
 Prof., Hd. of Dept (C)
- McCullough, W. S., MA BD PhD  
 Prof. (C)
- Williams, Rev. R. J., PhD *Chc.*, MA BD  
 Prof. (C)
- Tushingham, A. D., BD PhD *Chc.*, BA  
 Assoc. Prof. (C)
- Wevers, J. W., BA *Calvin Coll.*, ThB *Calvin*  
 Throl.Sem., ThD *Ym.* Assoc. Prof. (C)
- Clarke, Rev. E. G., BD MA  
 Assoc. Prof.
- Redford, D. B., MA  
 Lectr. (C)
- Sweet, R. F. G., MA *Manx.*, PhD *Chc.*  
 Lectr. (C)
- MacPherson, Rev. J., MA *McG.*, BD *Mauit*  
 Assoc. Prof., Hd. of Dept (V)
- Holland, J. D., MA  
 Lectr. (V)
- Newby, Rev. Canon M. T., MA  
 Prof., Hd. of Dept (T)
- Wolventon, Rev. W. L., AB *Manx.*, AM  
 PhD *Chc.* Asst. Prof. (T)
- Nursing, School of**
- Carpenter, Helen M., BS *Cal.*  
 MPH *Johns H.* Prof., Du
- Milman, Mary B., BA  
 Prof.
- Upchurch, Muriel, BA *Qu.*, MA *Swth.*  
 PhD *Leeds* Assoc. Prof.
- Wilson, M. Jean, BA *Sask.*, BProd  
 Assoc. Prof.
- Watson, Jeannette E., BScN *W. Ont.*,  
 MScN *Detroit* Assoc. Prof.
- Bennett, Hilda A., MA *Chc.*, BA  
 Asst. Prof.
- King, Kathleen, MSN *Fair.*, BA *BScN*  
 Asst. Prof.
- Ogilvie, Elise  
 Asst. Prof.
- Brecht, Mrs. Carol, BScN  
 Lectr.
- Coburn, Mrs. Beverley, BScN  
 Lectr.
- Robertson, Miss Elizabeth, BA MD PhD  
 Lectr.
- Turner, Mary N., BScN  
 Lectr.
- Dix, Dorothy M., BScN *W. Ont.*, MA *Cal*  
 Lectr.
- Schmidt, Miss Waltraud, BScN  
 Lectr.
- Woodsde, Marion, BScN  
 Lectr.
- Oriental Languages, see East Asiatic Studies, Islamic Studies and Near Eastern Studies**
- Pharmacy**
- Hughes, F. N., BSinPharm Hon LLD  
 PharmB MA  
 Prof.
- Walker, G. C., BSc *Alta.*, MS PhD *Produce*  
 Prof.
- Fuller, H. J., BA *W. Ont.*, MA *Yale*, PharmB  
 Baxton, R. M., BSP *Sask.*, MS PhD *Flor.*,  
 PharmB  
 Prof.
- Patonson, G. R., BSP MSc *Sask.*, PhD *W. Ont.*,  
 PharmB  
 Prof.
- Kennedy, D. R., PhD *Flor.*, BScPhm  
 PharmB  
 Asst. Prof.
- Nairn, J. C., PhD *Buffalo*, BScPhm  
 Asst. Prof.
- Tenre, F. W., MSc *Alta.*, PhD *N.Carolina*  
 Asst. Prof.

Sam, S. K., BSc MS PhD Wash.  
 Squaffer, Mrs. Isabel E., BSc *Alta*,  
 MSc *Western Reserve*  
 Duncan, G. R.  
 Kamel, S., PhD *Staged*  
 Walker, I. G., BA *Sask*, MA PhD  
 : Asst., 14 *Dennis*, 1 Res Assoc

Asst. Prof  
 †Asst. Prof.  
 Asst. Prof.  
 Lectr.  
 Sp. Lectr.

Maurer, Rev. A. A. A., MA PhD  
 Dewitt, L. S., MA PhD  
 MacDonald, Rev. R. J., MA PhD

Assoc. Prof. (M)  
 Assoc. Prof. (M)  
 Assoc. Prof. (M)

Leag, T. J. F., MA  
 Kennedy, Rev. L. A., PhD  
 Leag, D., BA *Man*, MA  
 Kiemer, E. J., AB *St. Louis*, PhD *Yale*  
 Schoenleber, E. J., MA *Chas*, BA  
 Wingell, A. E., BA *San Francisco*, MA  
 : Instr. (C) and : (T)

Assoc. Prof. (M)  
 Asst. Prof. (M)  
 Asst. Prof. (M)  
 Lectr.  
 Lectr. (M)  
 Lectr. (M)

### Philosophy

Anderson, J. H., BA Hon. LLD *Dal*, MA  
 PhD, FRSCan Prof., Hd. of Dept. (C)  
 Goudge, T. A., MA *Dal*, PhD, FRSCan

Prof. (C)  
 Prof. (C)  
 Prof. (C)  
 Prof. (C)

Long, W. M. D., MA PhD  
 McHae, R. F., PhD *Johns H*, MA  
 Fackenheim, E. L., PhD  
 McCurdy, W. J., BA *Dal*, AM

Assoc. Prof. (C)  
 Assoc. Prof. (C)  
 Assoc. Prof. (C)  
 Assoc. Prof. (C)

PhD *Harv*  
 Savan, D., AM *Harv*  
 Dyser, D. P., AM *Harv*  
 Day, W. H., MA DPhil *Oxon*, BA

Assoc. Prof. (C)  
 Assoc. Prof. (C)  
 Assoc. Prof. (C)  
 Assoc. Prof. (C)

Spenshott, F. E., MA *Oxon*  
 Butler, R. J., MA *NZ*  
 Gallop, D., MA *Oxon*  
 Webb, C. W., MA *W. Ont*, PhD  
 Wheatley, J. M. O., MA *New Br*, PhD

Assoc. Prof. (C)  
 Assoc. Prof. (C)  
 Assoc. Prof. (C)  
 Assoc. Prof. (C)

Payant, C. B., BA *Dal*, MA PhD

Asst. Prof. (C)

Gauthier, D. P., AM *Harv*, BPhil *Oxon*,  
 BA

Lectr. (C)  
 Lectr. (C)

Hunter, J. F. M., PhD *Edin*, MA  
 Brodout, C. C., MA *Fordham & Tor*

Lectr. (C)  
 Lectr. (C)

Finlay, C. M. T., BA  
 Puteaisma, H., BA *Mich*, MA *Indiana*

Lectr. (C)  
 Lectr. (C)

Living, J. A., MA *Canb* & *Tor*  
 Prof., Chairman of Dept. (V)

Assoc. Prof. (V)  
 Sp. Lectr.

Maspherson, Jessie, MA PhD  
 Hall, R. A., BEd MA  
 Fairweather, Rev. E. R., ThD *U.T.S. (N.Y.)*,  
 MA BD

Assoc. Prof. (T)  
 Lectr. (T)  
 Sp. Lectr. (T)

Owen, Rev. D. R. G., MA *Oxon*, BA  
 PhD

Assoc. Prof. (M)  
 Prof. (M)

Edson, G., AM *Cal*, PhD  
 Owens, Rev. J. M., MSD *Pontif Inst*, *Tor*

Assoc. Prof. (M)  
 Assoc. Prof. (M)

Kelly, Rev. J. M., MA PhD  
 Prof., Pres., Inst. of Mech. Studies (M)

Assoc. Prof. (M)  
 Assoc. Prof. (M)

Gilson, E., DPhil *Paris*, LLD *Aberd*, *Harv*,  
*St. And* & *Glas*, PhD *Monte*, *Rome*  
 & *Edin*, DPhil *Oxon*, LittD *Cal*,  
 FRSCan

Assoc. Prof. (M)  
 Assoc. Prof. (M)

Doer, Rev. J. W., PhD *Ott*, BPhil MA  
 Pagu, A. C., MA *Marquette*, PhD, FRSCan

Assoc. Prof. (M)  
 Assoc. Prof. (M)

Phelan, R. Rev. G. B., MA *St. F.X.*, SJR  
 C. U. A., PhD *Loveau*, LLD *Dal*,  
 St. M. & *Tor*, FRSCan

Assoc. Prof. (M)  
 Assoc. Prof. (M)

Lynch, L. E. M., MA LMS PhD  
 Prof., Hd. of Dept. (M)

Assoc. Prof. (M)  
 Assoc. Prof. (M)

Eichmann, Rev. I. T., ThD *STD Rome*  
 Syman, Rev. E. A., BA *Seton Hall*, STL  
 C. U. A., MSL *Pontif Inst*, *Tor*, MA  
 PhD

Assoc. Prof. (M)  
 Assoc. Prof. (M)

### Physical and Health Education, School of

Ebb, J. H., MD *Burns & Tw*, FRCPCan  
 Stevens, W. A., BS *Spo*

Prof., Dir.  
 Assoc. Prof., Dir. of Athletics & Phys.  
 Edson, (Men)

Griffiths, M. G., MPE *Springfield*, MA *Cal*  
 Wilson, R. J., MA *Br. Col*, MD DPH

Assoc. Prof., Asst. Dir.  
 Assoc. Prof.

Slack, Zerada, BA *McG*  
 Assoc. Prof., Dir. of Athletics & Phys.  
 Edson, (Women)

Jackson, Dorothy N. R., BSc MA *N.Y.*  
 Assoc. Prof.; Asst. Dir., Athletics &  
 Phys. Educ., (Women)

McCutchan, J. E., Assoc. Prof., Asst. Dir.,  
 White, A. D., BA MEd, Asst. Prof.

Kennedy, J. R., BPHE BA  
 McManus, J. S., BPHE  
 Wypper, K. A. W., BPHE BSW MEd MA

Lectr.  
 Lectr.  
 Lectr.

McCarthy, C. A. M., BA BEd  
 Daniel, J. V., BA BPHE  
 Hayden, F. J., BA *W. Ont*, MS III.

†Lectr.  
 : Res. Assoc.

### Physics

Watson, W. H., MA PhD *Edin* & *Canb*,  
 FRSCan

Prof.  
 Prof.

Barnes, C., MSc *Leeds*, PhD  
 Wilson, J. T., OBE, BA *Tor*, MA *ScD*  
*Canb*, PhD *Prin*, LLD *Can*, Hon.

DSc *W. Ont*, FRSCan (Geophys.) Prof.  
 Stryland, J. C., PhD *Asst*

Prof.

Welsh, H. L., MA PhD, FRSCan, PRS  
 Prof., Chairman of Dept

Johns, H. E., BA *McM*, Hon. LLD *Sask*,  
 MA PhD, FRSCan

Prof.  
 Prof.  
 Prof.

Van Krimmendank, J., PhD *Asst*.  
 Gottlieb, C. C., MA PhD  
 Dussals, J. M., MA DPhil *Oven*.

Prof.  
 Prof.  
 Prof.

Russell, R. D., MA PhD  
 Breuer, A. W.  
 Anderson, J. M., MA PhD

Assoc. Prof.  
 Assoc. Prof.  
 Assoc. Prof.

McKay, R. W., MA PhD  
 Scott, G. D., MA PhD  
 Hume, J. N. P., MA PhD

Assoc. Prof.  
 Assoc. Prof.  
 Assoc. Prof.

Allan, Elizabeth J., MA PhD  
 Ivey, D. G., MA *Br. Col*,  
 PhD *Notre Dame*

Assoc. Prof.

McNeill, K. G., MA DPhil Oxon.	Assoc. Prof.	Grasham, W. E., BSc MA	Asst. Prof.
Ruchmond, R., MA PhD	Assoc. Prof.	Neufeld, E. P., BA Sask, PhD Lond.	Asst. Prof.
Hallett, A. C. H., PhD Camb., BA	Assoc. Prof.	Hartle, D. G., BA Car., MA PhD Duke	
Fargaham, R. M., PhD	Asst. Prof.		Asst. Prof.
Graham, G. M., MSc Dal., PhD Camb.		Zakuta, L., MA McG., PhD Chic	Asst. Prof.
	Asst. Prof.	Winder, J. L.	Asst. Prof.
Gush, H. P., BE BA MSc Sask, PhD	Asst. Prof.	McDonnell, J. I., MA W.Ont	Lectr.
Steenberg, N. R. F., MC, MSc Qu.,		Macdonald, H. L., BPhil MA Oxon.,	
DPhil Oxon.	Asst. Prof.	BCom	Lectr.
Grant, F., BSc MS Ill., PhD	Asst. Prof.	McLeod, J., MA Sask.	Lectr.
Prentice, J. D., MSc McG., PhD Glas.		Russell, P., BA Oxon & Tor, MA Oxon	Lectr.
	Asst. Prof.	Sincoe, G., BA Car.	Lectr.
Worsley, Beatrice H., SM M I T,		Watkins, M. H., BCom	Lectr.
PhD Camb., BA	Asst. Prof.	Watson, A. M., MA Oxon. & Tor, BCom	Lectr.
May, A. D., MA PhD	Asst. Prof.	Kruger, A., PhD Harv., BA	Lectr.
Azuma, R. E., MA Br Col, PhD Glas.		Bishop, R. B., MA	Lectr.
	Asst. Prof.	Burley, B. D., BSc(Econ) Lond.	Lectr.
Haivey, J. S. N.	Asst. Prof.	Daumond, I. M., BA Br. Col,	
Armstrong, R. J.	Asst. Prof.	MA Yale & Tor, PhD Yale	Lectr.
Poll, J. D., PhD	Asst. Prof.	Forster, D. F., AM Harv., BA	Lectr.
West, G. F., BSc MA	Lectr.	Nishio, H. R., BA Calif.	Sp. Lectr.
Chinnery, M. A., MA Camb & Tor	Lectr.		
York, D., BA DPhil Oxon.	Lectr.		
4 Instrs., 46 Assts., 19 Demos			
<b>Political Economy</b>			
Bladen, V. W., MA Oxon., FRSCan	Prof.	<b>Portuguese, see Italian and Hispanic Studies</b>	
Brady, A., BA Oxon & Tor, Hon LLD Qu.,	Prof.	<b>Psychology</b>	
MA PhD, FRSCan	Prof.	Blatz, W. E., PhD Chic., MA MB	Prof.
Clark, S. D., MA Sask & McG., PhD,		Bernhardt, K. S., PhD Chic., MA	
FRSCan	Prof.	Prof.; Dir., Inst. of Child Study	
MacGregor, D. C., BA, FRSCan	Prof.	Line, W., OBE, BSc Mt. All., MA MEd Alta,	Prof.
Kearse, B. S., BA New Br. & Oxon.,		PhD Lond.	
LLD New Br., FRSCan	Prof.	Myers, C. R., MA PhD	Prof., Chairman of Dept.
Keyfitz, N., BSc McG., PhD Chic.,		Williams, D. C., BA Mount., MA PhD	Prof.
FRSCan	Prof.	Amsel, A., BA Qu., MA McG., PhD Iowa	Prof.
Currie, A. W., BA BCom Qu.,		Mandler, G., BA N Y, MS PhD Yale	
DComSc Harv.	Prof.	Steer, H. O., MA PhD	Assoc. Prof.
Easterbrook, W. T., BA Mount., MA Camb		Reislyn, D. E., MA Camb., PhD Yale	Assoc. Prof.
& Tor., PhD, FRSCan			Assoc. Prof.
Prof., Chairman of Dept.		Callagan, J. E., BA Mount., PhD Lond.	
Hall, O., BA Qu., MA McG., PhD Chic.	Prof.		Asst. Prof.
Helleiner, K. F. M., PhD Vienne, FRSCan	Prof.	Quarrington, B. J., MA Qu., BA PhD	Asst. Prof.
Hood, W. C., BA Mt. All., MA PhD	Prof.	Giapko, M. F., BA Mount., PhD	Asst. Prof.
Macpherson, C. B., MSc(Econ) DSc Lond.,		Macdonald, G. E., BEA Sask., MA PhD	
BA, FRSCan	Prof.		Asst. Prof.
Skilling, H. G., MA Oxon., PhD Lond., BA	Prof.	Joyner, R. C., DFC, MA PhD	Asst. Prof.
Hennessey, S. G., BCom, CA	Assoc. Prof.	Laurence, Mary W., MA PhD	Asst. Prof.
Dales, J. H., PhD Harv., MA	Assoc. Prof.	Northway, Mary L., MA PhD	Asst. Prof.
Beard, F. N., BCom, FCA	Assoc. Prof.	Thouten, G. B., MASE PhD	Asst. Prof.
Fox, P. W., PhD Lond., MA	Assoc. Prof.	Talving, E., MA PhD Harv.	Asst. Prof.
Tranter, S., BA LLB Athens, MA PhD		Walters, R. H., MA Brnt., BPhil Oxon.,	
	Assoc. Prof.	PhD St. And.	Asst. Prof.
Wallace, Mary E., BA Oxon. & Tor.,		Arrowood, A. J., BA PhD Minn.	Asst. Prof.
PhD Cal.	Assoc. Prof.	Bishop, H. E., BSc McG., PhD Chic	Asst. Prof.
Eastman, H. C. M., AM PhD Chic., BA		Gibbins, R. J., MA Qu.	Lectr.
	Assoc. Prof.	Bochtel, G. G., BSc Ed Bucknell, MA Stan.	Lectr.
Bayes, J. G., AM PhD Cal., BA	Assoc. Prof.		Lectr.
Heddon, W. C.	Assoc. Prof.	Hutchison, H., MA PhD	Sp. Lectr.
Giffen, P. J., MA	Asst. Prof.	Laxer, R. M., MA McG. & Tor	Sp. Lectr.
Pratt, R. C.	Asst. Prof.	Macmillan, J. W., PhD Cowe., BA	Sp. Lectr.
Sands, J. E., BCom	Asst. Prof.	Wideman, H., BA W. Ont., MA PhD	Sp. Lectr.
Burnet, Jenn R., PhD Chic., MA	Asst. Prof.	Millichamp, Dorothy A., MA	Sp. Lectr.
Green, H. A. J., MA Oxon., PhD M. J. T.	Asst. Prof.	Neiger, S., MD PhD Innsbruck	Sp. Lectr.
		Hackney, Mary, PhD Mich., MA	Sp. Lectr.

Rees, R. W., BA Dal, MA  
13 Assts., 3 Res. Assts., 1 Res. Asst.,  
3 Teaching Fellows

**Religious Knowledge, see Federated**  
Cells, below

**Russian, see Slavic Studies**

**Slavic Studies**

Bowman, H. E., AB Penn, MA  
PhD Harv. Prof., Chairman of Dept  
Lucky, G., MA Bryn, PhD Cal Prof.  
Sukhovsky, L. I., DHistSc Louvain Prof.  
Bedford, C. H., PhD Lond, MA Asst Prof.  
Jenkins, Mrs. Mary, BA Lond, MA Asst Prof.  
Kay, M. L., MA Oron & Tor Asst Prof.  
Flouk, Mrs. Helen, MA Lectr.  
Hayes, G., MA Lectr.  
Hendley, D. G., BSc(Econ) Lond., BA Lectr.  
Ponomareff, V. C., MA Lectr.  
1 Instt., 2 Teaching Fellows

**Social Science, see Pol Econ., and**  
Soc Work

**Social Work, School of**

Hendry, C. E., BA McM., MA Cal.,  
Hon MH Springfield Prof., Dir  
Jaffary, S. K., BSc MA Altn, PhD Chic. Prof.  
Morgan, J. S., MA Oron, DispEd Durh. Prof.  
Gowan, Elizabeth, BA Oron, PhD Chic.,  
MA Prof.  
Rose, A., MA PhD Ill., BA Prof.  
Spencer, J. C., MA Oron., PhD Lond. Prof.  
Medhurst, R. R., AB DSW S.Calif. Assoc. Prof.  
Rhinehart, Shulameth, MSW Penn., BA Assoc. Prof.  
Godfrey, Miss E. Ray, MA Chic., BA Assoc. Prof.  
Pellott, E. A., BA N.Y., MSW Denvers Assoc. Prof.  
Byles, J. S., BA MSW IF Ont. Asst. Prof.  
Parsons, A. J., BA MSW Br.Col. Asst. Prof.  
Sealey, Miss. Mary, BA Masst.,  
MA Chic. Asst. Prof.  
Kirkpatrick, Mrs. Margaret J., BA Qon.,  
MSW Asst. Prof.  
Dunlop, Jean L., MSW Asst. Prof.  
Posen, Manda, BA MSW Asst. Prof.  
Schlesinger, B., BA SurG Wms.,  
PhD Corn. Asst. Prof.  
Laplan, B., BA McM. Asst. Prof.  
Gripson, J., BA MSW Lectr.  
Tollancy, D., BA IF Ont., MSW Lectr.  
Hood, A. M., MD CM Que., DPsych Lectr.  
Doonan, Margaret B., BA Mt St Vin.,  
MSW Boston Lectr.  
McKnight, Mrs. Mary C., BA MSW 4 Lectr.  
Lindensfield, Rita, BA MSW 1 Lectr.  
Glover, G., BA Qon., MSW Br. Cal. 1 Lectr.  
Boothroyd, W. E., BA Mt All., MD  
CM Dal Sp. Lectr.  
Cernash-Bowden, J., MED Thfts Sp. Lectr.

Guyger, T., DipPolSci Cwaco,  
LLM Wrasco, PhD Lond Sp. Lectr.  
Herman, Mos, BA MSW Sp. Lectr.  
Rosen, E. J., BSc MD CM McG.,  
DPsych Sp. Lectr.  
Stewart, L., BA Sask., MA Sp. Lectr.  
Stinson, D. A., MSc McG., MD.  
FRCPCan Sp. Lectr.

**Spanish, see Italian and Hispanic Studies**

**Zoology**

Fisher, K. C., BA Acad., Hon DSc New  
Br., MA PhD, FRSCan Prof., Chairman of Dept  
Fry, F. E. J., MBE, MA PhD, FRSCan (Lammol) Prof.  
Langford, R. R., BSc Sask., PhD Prof.  
Ide, F. P., MA PhD, FAAS Assoc. Prof.  
Atwood, C. E., BSA McG., MSA PhD  
(Forest Entomol) Assoc. Prof.  
Butler, L., MSA PhD (Genetics) Assoc. Prof.  
Engelbert, Miss Vibeke E., MSA PhD (Histol) Assoc. Prof.  
McCallion, D. J., MA McM.,  
PhD Brown Assoc. Prof.  
Ungelhart, F. A., MA PhD Assoc. Prof.  
Reed, T. E., BA Calif., PhD Lond Assoc. Prof.  
Sullivan, Charlotte M., MSc Dal., PhD Assoc. Prof.  
Falls, J. B., BA PhD Assoc. Prof.  
Beckel, W. E., BA Qon., MSc Iowa,  
PhD Corn Assoc. Prof.  
Krona, O. M., PhD Kiel Assoc. Prof.  
Neal, G. M., MA Br. Cal. Asst. Prof.  
Friend, W. G., BSc McG., PhD Can. Asst. Prof.  
Liverage, R. A., BA Vermont,  
MA Mass & Penn., PhD Penn. Asst. Prof.  
Rigler, F., MA PhD Asst. Prof.  
Clark, G. M., BSc SurG Wms., MSc McG.,  
PhD Atlanta Asst. Prof.  
Passow, T. S., PhD Harv. Asst. Prof.  
Tallas, I., BSc Rutgers, PhD Indiana Asst. Prof.  
Churcher, C. S., MSc Natal, PhD Asst. Prof.  
Snyder, L. L. Lectr.  
McGregor, Alice M. Sp. Lectr.  
Scott, W. B., BA PhD Sp. Lectr.  
Peterson, R. I., BSc Tower, PhD Sp. Lectr.  
Peterson, Mrs. Margaret, BA Mt Holyoke,  
MA PhD Ruschffe Sp. Lectr.  
Nunzi, L. A., MSc Altn, PhD McG. Sp. Lectr.  
Dickie, Miss Marjorie C., MA PhD Sp. Lectr.  
Fowle, Miss Ann, BA Br. Cal. Sp. Lectr.  
Haston, Mrs. Marjorie, BA PhD Sp. Lectr.  
Simpson, Nancy E., BPEH MA Cal.,  
PhD Sp. Lectr.  
3 Instts., 38 Demes., 4 Res. Assts.

## APPLIED SCIENCE AND ENGINEERING

McLaughlin, R. R., Hon DSc Aston,  
MASe MA PhD Dean

## CANADA

**Aerophysics**

- Potterson, G. N., BSc LLD *Alta*, MA PhD,  
FRACs, FRSCan  
(Aerodynam) Prof., Hd. of Dept.  
Etken, B., MASC Prof.  
Ribben, H. S., MS PhD *Wash.* Prof.  
Glass, I. I., MASC PhD Prof.  
Korbacher, G. K., DipEng *Bal*,  
PhD *T.H. Braunschweig* Assoc. Prof.  
DeLeeuw, J. H., MS Georgia, PhD Asst. Prof.  
Poppleton, E. D., MScEng Asst. Prof.  
French, J. B., MSc *Brun.*, BASC Lectr.  
Hiscocks, R. D., MBE, BASC Sp. Lectr.  
5 Demrs, 1 Res. Assoc., 15 Res. Assts

**Chemical Engineering**

- Breckenridge, J. G., PhD *Canb.*, BASC  
Prof., Hd. of Dept.  
McLaughlin, R. R., Hon. DSc *Amur.*,  
MASC MA PhD Prof.  
Rapsen, W. H., MASC PhD, FCIC Prof.  
Gardner, W. P., PhD *Minn.*, MASC Prof.  
MacIlhenny, W. G., MASC Assoc. Prof.  
Andrews, D. G., MA *Canb.* Assoc. Prof.  
Burgess, W. H., BChE MFS  
PhD *Can.* Assoc. Prof.  
Spurrier, I. H., MASC PhD Assoc. Prof.  
Jeays, R. E., MA PhD, FCIC Assoc. Prof.  
Mason, R. W., MSc *Qu.*, PhD *Canb.* Assoc. Prof.  
Sandler, S., MASC Asst. Prof.  
Tress, O., BSE *Penn.*, ScD *M.I.T.* Asst. Prof.  
Hummell, R. L., BS *Purdue* Asst. Prof.  
Bukiewicz, J., DipEng *Leeds* Lectr.  
May, Z., DipEng Chem *Warren* Lectr.  
Barnea, C. C., BSc Lectr.  
Brackett, C. P., BSc *M.I.T.* Sp. Lectr.  
Lenz, F., BSE *Edin.*, MASC Sp. Lectr.  
Ford, J. D., BEng *McG.*, MASC †Sp. Lectr.  
3 Insts., 20 Demrs, 1 Res. Assoc.

**Civil Engineering**

- Morrison, C. F., BE *Sask.*, MSc *McG.*  
Prof., Hd. of Dept.  
Sagor, W. L., BASC CE Prof.  
Marshall, O. J., BASC CE Prof.  
Huggins, M. W., MASC Prof.  
Hobing, C. E., MASC Assoc. Prof.  
Macdon, H. L., BASC Assoc. Prof.  
Hensfield, C., BSc *Montr.*, MASC Assoc. Prof.  
Wrenshall, C. A., BE *Sask.* Assoc. Prof.  
Kani, G., DrIng *T.H. Stuttgart*,  
DipEng *Zagreb* Assoc. Prof.  
Collins, R. A., MS PhD *Ill.*, BASC Asst. Prof.  
Davidson, A. C., BSc *Montr.*, MASC Asst. Prof.  
Davis, M. M., BSc *Qu.*, MSc *Purdue* Asst. Prof.  
DeLory, P. A., BEng *McG.*, PhD *Leeds*,  
MASC Asst. Prof.  
Dallme, C. W., BASC Asst. Prof.  
Frieze, H. R., BSc *N.S.T.C.* Asst. Prof.  
Schwaighofer, J., DipEng *Graz*, MS  
PhD *Penn.* Asst. Prof.  
Haynes, B. J., BASC Asst. Prof.  
Baiber, J. D., MASC Asst. Prof.

- Kennedy, D. J. L., MS PhD *Ill.*, BSc Asst. Prof.  
Bernhart, A. P., BASC DSc *Graz* Asst. Prof.  
Wallis, A. W., MA Lectr.  
Emerson, L. P., BASC Lectr.  
Gunn, R. G., MASC Lectr.  
Macpoom, K., MASC Lectr.  
Uzumers, S. M., MASC Lectr.  
Bnd, S. J. G., BASC Lectr.  
Tress, R. G. Lectr.  
Cudal, B. J., MS *Ill.*, BASC Lectr.  
Boreddy, V., DipEng *Prague*, MA Lectr.  
Wodianski, P., MSc Lectr.  
Tunak, J., MASC †Lectr.  
Sarnow, W., MA *Qu.* Sp. Lectr.  
Adams, A. H. S. V. D., BSc MA *Glas.* Sp. Lectr.  
Tallon, M. G., BASC Sp. Lectr.  
20 Insts., 2 Readers, 3 Demrs

**Electrical Engineering**

- Tacy, G. F., SM *M.I.T.*, BASC  
Prof., Hd. of Dept.  
Smith, V. G., BASC Prof.  
Reed, J. E., BASC Prof.  
Sinclair, G., PhD *Ohio State* Prof.  
Hunt, J. M., SM *Scd M.I.T.*, BASC Prof.  
Moody, N. F., MIEE Prof.  
Slemmon, G. R., PhD *Leeds*, MASC Assoc. Prof.  
Kreutz, A. J., BSc *Alta*, MASC Assoc. Prof.  
Burner, P. P., DipEng *Bnd*,  
MSc *Stockholm*, PhD Assoc. Prof.  
Coustice, H. A., BASC Asst. Prof.  
Stratton, A. R., BSc *Leeds*, MASC Asst. Prof.  
Yen, J. L., BSc *Chiao Tung*, MASC PhD  
Burke, P. E., BE *N.S.T.C.*, MASC Asst. Prof.  
Dalton, I. R., MS *Northwestern*, BASC  
Kavannah, R. J., BSc *New Br.*, DIC, PhD *Leeds*, MASC Asst. Prof.  
Beary, F. G., MASC Lectr.  
Dmitrievsky, S., MASC Lectr.  
Janischewsky, W., MASC Lectr.  
Maitens, G. O., BSc *Manit.*, MASC Lectr.  
Lee, E. S., MEng *McG.* Lectr.  
Sondhi, M. M., BSc *Delhi*, MS PhD *Wis.* Sp. Lectr.  
3 Insts., 17 Demrs.

**Industrial Engineering**

- Porter, A., MSc PhD *Mase.* Prof., Hd.  
Bernholts, B. Assoc. Prof.  
Clough, D. J., BASC MCom Asst. Prof.  
Anderson, R. W. P., MASC Asst. Prof.

**Mechanical Engineering**

- Leid, G. R., SM *M.I.T.*, BSc PhD  
Prof., Hd. of Dept.  
Smith, J. W., MASC Prof.  
Jones, L. E., BSc CE *Manit.*, MASC PhD Prof.  
Barres, W. D., BSc *Alta*, MS PhD *Iowa*  
Hughes, P. B., BSc *McG.* Assoc. Prof.  
Hoopes, F. C., DIC, BASC Assoc. Prof.





- Orthodontics**  
 Haldenson, H., DDS Prof., Hd. of Dept  
 Woodside, D. G., BSc DDS Dal., MScD Assoc. Prof.
- Potter, A. L., MS III., DDS Asst. Prof.  
 Field, R. D., MSc Mich., DDS Asst. Prof.  
 Culbert, M. R., DDS Asst. Prof.  
 Spencer, W. J., MDS *Northwestern*, DDS Consultant
- Pedodontics**  
 MacGregor, S. A., DDS Prof., Hd. of Dept.
- Periodontology**  
 Williams, C. H. M., DDS BScD Prof., Hd. of Dept.  
 McIntosh, W. G., DDS MScD, FACD Assoc. Prof.
- Preventive Dentistry**  
 Kreutzel, J., DDS BScD, FACD Prof.  
 Niskafook, G., MS III., DDS Prof.  
 Berry, Dore F. J., MA Asst. Prof.
- Prosthodontia**  
 Turble, R. L., DDS BScD, FACD Prof., Hd. of Dept.  
 Downton, E. P., DDS BScD Assoc. Prof.  
 McKay, W. D., DDS Asst. Prof.
- Radiography**  
 Poyton, H. G., FDSRCS Prof., Hd. of Dept.
- MEDICINE**  
 Hamilton, J. D., MD, FRCPCan Dean
- Anæsthesia**  
 Gordon, R. A., CD, BSc Sask., MD DA, FRCPCan, FFARCS Prof., Hd. of Dept.  
 2 Resident Fellows, 1 Res. Fellow, 12 Associates,  
 13 Clin. Assts., 15 Clin. Teachers
- Anatomy, see also Zool., above**  
 Duckworth, J. W. A., VRD, ChB MD Edin Prof., Hd. of Dept.  
 Hann, A. W., MB, FRSCan Prof.  
 Smith, C. G., BA MSc W. Ont., MD PhD Prof.  
 Benaley, Mrs. Sylvia H., BA Mt. Holyoke, MD Chic Assoc. Prof.  
 Lessner, T. S., MA MB BChia Camb Assoc. Prof.  
 Anderson, J. E., MD Assoc. Prof.  
 Lewis, G. F., MA Assoc. Prof.  
 Aveland, A. A., BSc MD CM PhD McG Asst. Prof.  
 MacKenzie, R. G., MD Asst. Prof.  
 Pavitra, K. J., PhD Cal., DDS Asst. Prof.  
 Admson, L., MB ChB Lon Asst. Prof.  
 Hall, M. C., BSc(Med) PhD, MRCP, FRSCan Asst. Prof.
- McCung, K. O., MD Lect.  
 Strickler, A. C., MD Lect.  
 8 Demos
- Art as Applied to Medicine**  
 Jay, Nancy G. Assoc. Prof., Du.
- Bacteriology, see Pathol. and Bacteriol.**
- Biochemistry**  
 Hanes, C. S., PhD ScD Camb., BA, FRS, FRSCan Prof., Hd. of Dept.  
 Butler, G. C., BA PhD, FRSCan Prof.  
 Crocker, D. F., MA PhD Prof.  
 Fisher, Mrs. Jeanne M., MA PhD Assoc. Prof.  
 Connell, G. E., BA PhD Asst. Prof.  
 Brown, G. M., BA Camb., PhD Asst. Prof.  
 Packham, Mrs. Miriam A., PhD Lectr.  
 1 Res. Asst., 11 Fellows
- Development of Modern Medicine**  
 Boyd, W., MD Edin., FRCP, FRCPed, FRSCan Sp. Lectr.
- Gynaecology, see Obstet. and Gynecol.**
- Hygiene, see above**
- Medical Biophysics**  
 Johns, H. E., BA McM., LL.D. Sask., MA PhD, FRSCan Prof., Hd. of Dept.  
 Ham, A. W., MB, FRSCan Prof.  
 Ash, C. L., BSc Alta., MD DRad Prof.  
 Simanovitch, L., BSc PhD McG. Prof.  
 Axelrad, A. A., BSc MD CM PhD McG. Assoc. Prof.
- Cinader, B., PhD DSc Lond. Assoc. Prof.  
 Howatson, A. F., MA PhD Glas Assoc. Prof.  
 Hellemer, C. W., PhD Asst. Prof.  
 McCulloch, E. A., MD, FRCPCan Asst. Prof.  
 Peters, M. Vera, MD Asst. Prof.  
 Tull, J. E., MA Sask., PhD Yale Asst. Prof.  
 Whitmore, G. F., MA Sask., PhD Yale Asst. Prof.
- Hunt, J. W., MSc Sask., PhD McG. Asst. Prof.  
 Bruce, W. R., BSc Alta., PhD Sask., MD Chic Asst. Prof.  
 Fueszt, C. R., MSc Alta., PhD Calif. Asst. Prof.  
 Taylor, R. M., BA MD, FRCPCan Lectr.  
 2 Assoc., 1 Radiation Physicist
- Medical Jurisprudence**  
 Gray, K. G., QC, MD BSc(Med) Sr Lectr.  
 McLenn, C. R., MSc McG., MD CM Qu Lectr.  
 Tuckett, M. D., MD CM Qu., DPsych Sp. Lectr.
- Medical Research (Banting & Best Medical Research Department)**  
 Best, C. H., CBE, DSc Lond., Oxon., Paris, Chic., Lond., Monro & Northwestern, ScD Camb., MD Asst., Louvain, Lidge & Tor., LL.D. Dal., Melb., Qu. & Edin., MA, FRS, FRSCan, FRCPCan Prof., Dir.

Francis, W. R., OBE, MA MB  
 Lucas, C. C., MASE *Br Col*, PhD, FCIC,  
 FRSCan  
 Beer, E. E. F. T., PhD *Beri*, FRSCan  
 (Synthetic Chem.)  
 Campbell, J., MA PhD  
 Haist, R. E., MA MD PhD, FRSCan  
 Wrenshall, G. A., MSc *Sask*, PhD *Yale*  
 & *Tor*, MA  
 Salter, J. M., MA *Br Col*, PhD  
 Leibell, B. S., MA MD *Lund*, BSc(Med)  
 Baker, D. G., MA PhD  
 Buchner, D., PhD *Beri*  
 Legathopoulos, J., MD *Athens*  
 Rudout, Jesse H., MA PhD  
 Feasby, W. R., BA MD  
 Lang, Jessie M., MA  
 Suck, Mrs Anna, MD *Bratislava*, PhD  
 10 Res. Assocs., 7 Res. Assts., 6 Fellows

## Medicine

Wightman, K. J. R., MD, FRCPCan,  
 FACP Prof., Hd. of Dept.  
 Brooks, E. F. J., MD, FRCPCan, FRCP Prof.  
 Hildard, I. M., BA MD, FRCPCan Prof.  
 MacDonald, R. I., MD CM *Dal*, BA,  
 FRCPCan, FRCP, FACP Prof.  
 Associate Professors  
 Anglin, A. F. W., BA *Mont*, MD  
 Keown, A. J., MD *Lond*, FRCPCan, MRCP  
 Lawlaw, J. C., PhD *Lond*, MA MD, FRCPCan  
 Spaulding, W. B., MD, FRCPCan, FACP  
 Secures, A. H., MD, FRCPCan  
 Wong, N. M., MD, FRCPCan  
 Graham, J. W., MD DDS, FRCPCan, FRCP  
 Richardson, J. C., MBE, MD BSc(Med),  
 FRCP, FRCPCan  
 Walston, I. A., BA MD DPM, FRCPCan,  
 FACP  
 Burton, C. R., BA MD, FRCPCan, FACP  
 Davey, Jean F., OBE, BA MD, FRCPCan  
 Whitelaw, D. M., MD *McG*, FRCPCan

## Assistant Professors

Crowther, T. A., MB  
 Gray, C. C., MD, FRCPCan  
 Greenwood, W. F., BA MD, FRCPCan  
 Hall, W. E., MD, FRCPCan  
 Hamilton, F. C., BA MB, FACP  
 Hethington, H., BA MB, MRCP, FRCPCan  
 Moran, D. B., MA MD, FRCPCan  
 Ogryzlo, M. A., MD *Mont*, FRCPCan  
 Oller, W. A., MD, FRCPCan, FACP  
 Peterson, J. F., BA MD *Camb*, MRCP,  
 FRCPCan  
 Silverstein, J. L., BSc MD *Mont*, FRCPCan  
 Warwick, O. H., BA *McAll*, MA *Oxon*,  
 MD CM *McG*, MRCP, FRCPCan  
 Yende, E. R., MD, FRCPCan  
 Doyle, A. M., MBE, BA MD  
 Johnston, M. N., BA *Sask*, MD, FRCPCan  
 Mackenzie, D. J., BA *Sask*, MD, FRCPCan  
 Murnaghan, D. P., MB BCh *Dub*, FRCPCan

Sinclair, J. C., MD, MRCP, FRCPCan  
 22 Demos., 1 Res. Assoc., 1 Res. Asst., 1 Res.  
 Fellow, 29 Fellows, 23 Assoc., 6 Clin.  
 Assts., 39 Clin. Teachers, 2 Sr. Fellows

## Obstetrics and Gynaecology

Cannell, D. E., MB BSc(Med), FRSCan  
 Prof., Hd. of Dept.  
 Henderson, D. N., MB, FRSCan Assoc. Prof.  
 Mettlejohn, R. B., MD, FRCOG Assoc. Prof.  
 Murby, W. H., MD Assoc. Prof.  
 Maloney, Geraldine, BA MD, FRSCan,  
 FACS Asst. Prof.  
 Writ, G. L., MB Asst. Prof.  
 6 Resident Fellows, 2 Res. Fellows, 7  
 Assoc., 19 Clin. Teachers

## Ophthalmology

McCulloch, J. C., MD Prof., Hd. of Dept.  
 Besu, P. K., BSc MB DOMS *Cal*, Assoc. Prof.  
 Macrae, H. M., MD Asst. Prof.  
 Morgan, A. L., MD Asst. Prof.  
 Kelly, R. G. C., MD Asst. Prof.  
 5 Assoc., 4 Clin. Teachers, 1 Clin. Fellow

## Oto-Laryngology

Ireland, P. R., MD, FRSCan, FACS  
 Prof., Hd. of Dept.  
 Whaley, J. B., MD Asst. Prof.  
 Henry, G. A., MD, FACS Asst. Prof.  
 French, D. B., MD Asst. Prof.  
 1 Fellow, 3 Assoc., 11 Clin. Teachers, 1  
 Clin. Fellow

## Paediatrics

Crute, A. L., OBE, PhD *Lond*, MA MD,  
 FRCPCan Prof., Hd. of Dept.  
 Snelling, C. E., MB Assoc. Prof.  
 Ebbs, J. H., MD *Burn*, & *Tor*, FRCPCan  
 Silverthorne, L. N., MB Assoc. Prof.  
 Hawke, W. A., MD, FRCPCan, FRCP  
 Rhodes, A. J., MD, FRCPEd Assoc. Prof.  
 Reed, T. E., BA *Calif*, PhD *Lond*, Assoc. Prof.  
 Keith, J. D., MD Assoc. Prof.  
 Bain, H. W., MD, FRCPCan Asst. Prof.  
 Edwards, H. E., MB Asst. Prof.  
 McNaughton, G. A., MD Asst. Prof.  
 Bailey, J. D., MD, FRSCan Asst. Prof.  
 O'Brien, M. J., BA MD, FRCPCan Asst. Prof.  
 Pechard, J. S., MC, MA MB *Camb*,  
 MRCP Asst. Prof.  
 Sess-Kothnik, A., MD *Bud* Asst. Prof.  
 2 Resident Fellows, 1 Res. Assoc., 5 Fellows,  
 4 Assoc., 22 Clin. Teachers, 1 Clin.  
 Fellow

## Pathological Chemistry

Dauphinee, J. A., OBE, MA *Br Col*,  
 MD PhD, FRCPCan, FRSCan  
 Prof., Hd. of Dept.

Nicholson, T. F., MB BSc(Med) PhD  
 Assoc. Prof.  
 Gornall, A. G., BA *Mat. Sci.*, PhD  
 Assoc. Prof.  
 Paul, W., BA PhD  
 Assoc. Prof.  
 Porter, C. J., BA *Med.*, PhD  
 Lectr.  
 2 Depts., 3 Res. Assoc., 2 Res. Assts., 4  
 Teaching Fellows, 3 Fellows, 5 Assoc.

### Pathology and Bacteriology

Ritchie, A. C., MB ChB NZ, DPhil Oxon.  
 Prof. (Pathol.) Hd. of Dept.  
 Gricey, P. H., MD BSc(Med)  
 Prof. (Bacteriol.) Hd. of Dept.  
 Olszewski, J., MD *Winn & Freb.*  
 PhD *McG.* (Neuropathol.) Prof.  
 Donohue, W. L., MA MD  
 Assoc. Prof.  
 Tom, Mary L., BA MB  
 (Neuropathol.) Assoc. Prof.  
 Movat, H. Z., MD *Immunol.*, MSc(Med)  
 PhD  
 Assoc. Prof.  
 McLennan, C. R., MSc *McG.*, MD CM *Qn.*  
 FRCPCan  
 Asst. Prof.  
 Reas, R. C., BA MD MSc *McG.*  
 FRCPCan  
 Asst. Prof.  
 Anderson, W., MB ChB *Edin.*  
 Asst. Prof.  
 Shoa, S. M., MSc MD BCh N U I  
 Asst. Prof.  
 Steiner, J., MD *Prague & Lio*  
 Asst. Prof.  
 Brown, T. C., MD, FACP  
 †Asst. Prof.  
 Hawkes, G. H., MD  
 Lectr.  
 Ritchie, Mrs Susan, MD *Manuch.*  
 MSc *McG.*  
 Lectr.  
 Blanchard, A. J., MD  
 †Lectr.  
 Ross, Marion, MD BSc(Med)  
 †Lectr.  
 Pathol. : 1 Sr. Res. Fellow, 2 Res. Fellows,  
 3 Resident Fellows, 12 Depts., 2 Res.  
 Assoc., 1 Res. Asst., 1 Assoc.  
 Bacteriol. 1 Depts., 2 Assoc.

### Pharmacology

Sellers, E. A., MD *Manch.*, PhD  
 Prof., Hd. of Dept.  
 Lucas, G. H. W., MA PhD  
 Prof.  
 Kellow, W., MD *Konigsberg*  
 Assoc. Prof.  
 Kalant, H., MD BSc PhD  
 Assoc. Prof.  
 Schonbaum, E., ChemCand *Aust.*  
 PhD *McG.*  
 Asst. Prof.  
 Armstrong, J. B., MD, FRCPCan  
 Asst. Prof.  
 Henderson, Mrs. Rosemary D., BA *New Br.*  
 MA *Manch.* & *Tor.*, PhD  
 Asst. Prof.  
 Smith, H. W., BA MSc *W. Ont.*, PhD  
 †Asst. Prof.  
 1 Depts., 4 Res. Assoc., 5 Res. Assts.,  
 3 Fellows, 1 Assoc.

### Physiology

Best, C. H., CBE, DSc *London, Oxon., Paris,*  
*Chic., Laval, Munn & Northwestern,*  
 ScD *Cambr.*, MD *Aust.*, *Louvain, Liège*  
 & *Tor.*, LL.D *Ont.*, *Med.*, *Qu.* & *Edin.*,  
 MA, FRS, FRSCan, FRCPCan  
 Prof., Hd. of Dept.  
 Haist, R. E., MA MD PhD, FRSCan  
 Prof.  
 Mankowitz, J., MBE, MS *Manch.*, MB PhD  
 Prof.

Monkhouse, F. C., BA *Sask.*, PhD  
 Prof.  
 Scott, J. W., MA MD  
 Prof.  
 Hartoft, W. S., BSc MD PhD LL.D *Alta.*  
 †Prof.  
 Campbell, J., MA PhD  
 Assoc. Prof.  
 Johnson, W. H., BSc PhD  
 Assoc. Prof.  
 Rappaport, A. M., MD *Prague*, PhD *Aust.*  
 Assoc. Prof.  
 Clarke, D. W., MSc *Alta.*, PhD *Cal. Tech.*  
 Assoc. Prof.  
 Saek, O., MD *Bratslow*, MA PhD  
 Assoc. Prof.  
 Ashworth, M. A., MD BSc(Med) PhD  
 Asst. Prof.  
 Hartoft, Mrs. Phyllis M., BS *Med.*  
 MA PhD  
 Asst. Prof.  
 Henderson, Margaret J., MA PhD  
 Asst. Prof.  
 Hartoft, C. J., MD *Med.*, PhD  
 Asst. Prof.  
 5 Depts., 5 Res. Assoc., 3 Res. Assts.,  
 1 Fellow

### Psychiatry

Stokes, A. B., CBE, MA BM BCh Oxon.,  
 FRCPCan, FRCP  
 Prof., Hd. of Dept.  
 Gray, K. G., QC, MD BSc(Med)  
 Prof.  
 Dewar, J. G., BA MD *W. Ont.*, PhD *Cambr.*  
 DipPsych *DPM Lond.*, MA, FRCPCan,  
 FACP  
 Assoc. Prof.  
 Doust, J. W. L., BSc MB BS, FRCPCan  
 Assoc. Prof.  
 Jackson, Mary V., MD  
 Assoc. Prof.  
 McNeil, B. H., BA MD DPsych  
 Assoc. Prof.  
 Boothroyd, W. E., BA *Mat. Sci.*, MD  
 CM *Dal.*  
 Asst. Prof.  
 Miller, A., MD DPsych  
 Asst. Prof.  
 Cappon, D., MB BS DPH, MRCPed  
 Asst. Prof.  
 Patkin, A., BA *Manch.*, MD  
 Asst. Prof.  
 Rosen, E. J., BSc MD CM *McG.*,  
 DPsych  
 Asst. Prof.  
 Schaffer, I., MD DPM  
 Asst. Prof.  
 1 Res. Assoc., 1 Res. Asst., 3 Fellows, 16  
 Assoc., 26 Clin. Teachers, 1 Res. Fellow

### Radiology

Hall, M. M. R., MD, FFR  
 Prof., Hd. of Dept.  
 Ash, C. L., BSc *Alta.*, MD DRad  
 Prof.  
 Munro, J. D., MD *W. Ont.*, DRad  
 Asst. Prof.  
 Shannon, E. H., MD DRad, FFR  
 Asst. Prof.  
 Harnack, L. R., MD  
 Asst. Prof.  
 Peters, M. Vera, MD  
 Asst. Prof.  
 MacEwen, K. F., MD DRad  
 Asst. Prof.  
 6 Assoc., 13 Clin. Teachers

### Rehabilitation Medicine

Joscoe, A. T., BA *McM.*, MD  
 Prof., Dir.  
 Crawford, J. S., MD, FRCPCan  
 Asst. Dir.  
 Gardner, W. J., MB, MRCP, FRCPCan  
 Asst. Prof.  
 LeVesconte, Helen P.  
 (Occup. Therapy) Sr. Lectr.  
 (Phys. Therapy) Sr. Lectr.  
 Pollard, Lillian  
 Lectr.  
 Cardwell, Mrs. Thelma M.  
 Lectr.  
 Harland, Marguerite  
 Lectr.  
 Robinson, Isabel M.  
 Lectr.  
 Brown, Mrs. Wilma M., BA  
 Lectr.  
 Bradshaw, R. O. F., BSc *McG.*  
 Lectr.

Hudson, Wilma J Lectr  
4 Instrs, 1 Demr, 2 Assoc, 2 Clin Teachers

**Surgery**

Kergan, F. G, MA Odon, BA MD MS,  
FRCS, FRCSCan, FACS

Walsh, W K, OBE, MB, FRCS, FRCSCan,  
FACS Prof, Hd. of Dept.

Land, R. C, MD MS, FRCSCan,  
FRCS, FACS Prof

Farmes, A. W., MBE, MD, FRCSCan Prof.

**Associate Professors**

Mitchell, D. R., BA MD MS, FRCS, FRCSCan

Dewar, P. P., MD, FRCSCan, FRCS

Gordon, S. D., MB MS, FRCSCan, FACS

Bugelow, W. G., BA MD MS, FRCSCan, FACS

MacDonald, I. B., MD MS, FRCSCan, FACS

Toven, E. B., MD MS, FRCSCan, FRCSed,  
FACS

Keith, W. S., MBE, BA MB

Thomson, S. A., MD

Mills, J. R. F., MD MS, FRCSed, FRCSCan,  
FACS

Aberhart, C., MD MS

**Assistant Professors**

Russell, J. L., MD, FRCSCan

Speone, C. M., MD MS, FRCSCan, FACS

Delarue, N. C., BA MD MS, FRCSCan, FACS

Mustard, W. T., MBE, MD MS, FRCSCan,  
FACS

MacIntosh, D. L., BA BSc MD CM Dnl,  
FRCSCan

Noiman, H. R. C., MD, FRCS, FRCSCan

Day, C. S., MD, FRCS, FRCSCan, FACS

Mustard, R. A., MBE, BA MD MS, FRCSCan

9 Resident Fellows, 1 Res. Fellow, 2 Res  
Assoc., 1 Res. Asst., 2 Fellows, 22  
Assoc., 44 Clin. Teachers

**Therapeutics**

Jousse, A. T., BA McM., MD Assoc Prof

4 Assts., 1 Clin. Teacher

**CONNAUGHT MEDICAL RESEARCH  
LABORATORIES**

Pengouen, J. K. W., MBE, MA MD, FRSCan

Dh. Dfries, R. D., CBE, MD LL.D. Snsk, DPH

Consultant

MacLean, D. L., OBE, MD BSc(Med) DPH

Assoc. Dir.

Charles, A. F., MA PhD Asst. Dir.

Brown, M. H., OBE, MD BSc(Med) DPH

Asst. Dir.

Fisher, A. M., MA PhD Asst. Dir.

Wilson, R. J., MA B. Chl, MD DPH Asst. Dir.

Clawley, J. F., DVM PhD Asst. Dir.

Allen, K. E., BA, FCIS Financial Administrator

Boyd, L. W., MSc Qu Supr.

14 Res. Assoc., 25 Sr Res. Assts.,  
13 Res. Assts.

**ONTARIO COLLEGE OF EDUCATION**

Diltz, B. C., MA Hon LL.D. Qu

(Engl. & Hist.) Prof

Phillips, C. E., BA DPed (Educn.) Prof.

Skinner, A. P., BSc PhD St And, MA St And, & Col Prof.

**Educational Methods**

Diltz, B. C., MA Hon LL.D. Qu

(Engl. & Hist.) Prof

St John, Helen B., MA Prof, Supervisor of

Women Students

Bryans, Helen L., MA Col, BA

(Phys. & Health Educn.) Prof

Dadson, D. P., BA BEd (Educn.) Prof

Dean, Charlotte R., MA Col, BA

(Home Econ.) Prof.

Phillips, R. D., BSc New Br, MEd

(Vocational Subs.) Prof, Dir. of Vocational

Trg and Indust. Arts & Crafts

Tait, G. E., BA W. Ont., BEd EdD

(Elem. Educn.) Prof

Flower, G. E., MA Jdg, EdD Havn. Prof

Louden, A. H., BA Qu, BEd (Sci.) Prof

Taylor, B. C., MA (Classics) Prof

Parmenter, M. D., MA

(Guidance) Dir. of Vocational Guidance

Centre

Pavmore, J. H., BA McM., BPhE BEd

(Phys. & Health Educn.) Prof

**Associate Professors**

Tacon, P. H., BEd MA (Art)

Carlisle, J. S., BA BEd (Geog. & Hist.)

Saggo, A. P., BA (Comm. Subs.)

McMinster, R. J., BA BEd (Engl.)

Furnell, A. W., BAsc (Vocational Subs.)

Scott, M. B., BA BLS (Sch. Librarianship)

Finnegan, Helen L., MS Mnuv, BA

(Home Econ.)

Bray, K. L., MM Rock, MusBac (Music)

Dodd, J. W., BA W. Ont. (Theatre Arts)

**Assistant Professors**

Bergoy, W. E., BA McM (Maths.)

Casson, R. G., BSc W Ont (Sci.)

Lefe, J. R., BPhE MEd (Phys. Educn.)

Lockhart, A. D., MA Qu (Hist.)

MacDonald, J. W., BA Cn (Engl.)

MacLean, W. B., MA McM (Maths.)

Bennison, E. P., MEd Wgyw, BA (Indust. Arts)

Luther, G. T. H., BA BEd (Indust. Arts)

Jones, R. J., BA MusBac (Mod. Langs.)

Saggo, W. E., CD, BA (Geog.)

**Lecturer**

McLachlan, A. T., BA (Shop Work)

7 Instrs.

**Educational Research**

Jackson, R. W. B., BA Altn, PhD Lond Prof., Dir.

Fowler, H. M., BA McG, EdD Havn. Prof.

Pati, C. C. V., BA *Qu.*, MA PhD *Col.*,  
BPhed Prof.  
Fleming, W. G., BA *Qu.*, EdD Assoc Prof.  
Rideout, E. B., BA *Med*, MEd Assoc Prof.  
Dobson, G. A., BA BAec *Scis*, BPhed Asst Prof.  
Brehaut, W., BA *Dnl*, MA EdD Asst Prof.  
Flowers, J. F., BPhE EdD Asst Prof.  
Savage, H. W., BA *Manu*, MEd Asst Prof.  
Hobday, Kathleen M., MA Lectr.

Cookshutt, Margaret E., BA BLS Lectr.  
Hardie, Betty D., BA BLS Sp. Lectr.  
Miller, Clara, BSc *Acad*, BLS Sp. Lectr.  
Thomson, Jean, BS *Col*, BA Sp. Lectr.  
Trotter, Frances, BA *McM* Sp. Lectr.

#### University of Toronto Schools

MacMurray, W. B., BA BPhed Headmaster  
25 Instrs

#### Library School

Bassam, Bertha, BA *Qu.*, BLS *Pratt*, MS *Col.*  
Prof., Du  
Silverthorn, Mary E., BA *Alta*, BSinLS  
MA *Ill.* Assoc Prof.  
Murray, Florence B., AMLS *Mich.*, BA  
Assoc. Prof.  
Ball, Katharine L., MA *Osou.*, BA BLS  
Assoc. Prof.

#### UNIVERSITY EXTENSION, Division of

Williams, Prof. D. C., BA *Manu*, MA PhD Dir.  
Assoc. Du  
Boyes, G. H. Asst Dir.  
Münier, Dorothy de F. Asst Du  
Phillips, E. S., BA Asst Du  
Mills, H. L., BA MCom Asst Dir

### ADMINISTRATIVE AND OTHER STAFF

Asst. Dean & Sec. (Pac. of Arts & Sci.) W. D. Foulds, BA Asst. Registrar & Dir. of Admissions: A. R. Kilgour, MBE, MA. Asst. Registrar & Dir. of Student Financial Aid: F. C. Passy Du of Alumni Affairs: J. C. Evans, BA Dir. of Information: K. B. Edey, Dir. of Devel.: R. J. Albrant, Dir. of Grad. Records: C. G. M. Grier, ED, MA. Warden of Hart House: J. McCulley, MA Dir. of Univ. of Toronto Press: M. Jeanneret, BA Dir. of Univ. Health Service: G. B. Wodehouse, MC, MD, FRCP Asst. Dir. of Univ. Health Service (Women): Frances H. Stewart, BA MD Dir. of Placement Service:

J. K. Bradford, OBE, MAsC Dir. of Athletics & Phys. Educn (Men): W. A. Stevens, BS, Syr Du of Athletics & Phys. Educn (Women): Zenda Slack, BA MSc Chief Accountant: D. J. Reid, Gen. Sec. Treasurer of Students' Admin. Council: E. A. Macdonald, BA Du of Hart House Theatre: R. S. Gill, MA.

University College. Dean of Men, M. H. I. Macdonald, MA, Dean of Women, Mrs. H. Innes, LL.D. Dean of Devonshire House (Univ. Man's Residence): T. Symons, MA Hd of Residence for Student Nurses: Nellie Hewitt

### COLLEGES OF THE UNIVERSITY

NEW COLLEGE Founded 1962 An undergraduate coll. for students from all facs in the Univ. of Toronto Principal—P. E. W. Wetmore, BSc New Br., MA PhD, FRSCan. Registrar—W. S. Wilson, BD, BASc

St. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ., see p. 388.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., see p. 390.

UNIVERSITY COLLEGE (tel. [Registrar]: WA 3-6611) Founded 1853 Provides courses leading to BA, BCom and BSc of Univ. of Toronto. Principal—M. St. A. Woodside, MA Oron., Hon. LL.D. Cor., BA Registrar—R. M. H. Shephard, MA Camb

VICTORIA COLLEGE, in the Faculty of Arts of the Univ., see p. 392.

### FEDERATED UNIVERSITIES

UNIVERSITY OF St. MICHAEL'S COLLEGE, see p. 388.

UNIVERSITY OF TRINITY COLLEGE, see p. 389.  
VICTORIA UNIVERSITY, see p. 391.

### FEDERATED COLLEGES

KNOX COLLEGE, WYCLIFFE COLLEGE and EMANUEL COLLEGE Teachers giving instruction in Univ. courses (Religious Knowledge): (1) Knox—Rev. J. S. Glen, PhD *Tor*, ThD *Vic* *Tor*, DD, Principal; Rev. D. K. Andrews, MA *Tor*, PhD,

Clus., Prof. (2) Wycliffe—Rev. Canon L. Hunt, BA *Tor*, Hon. DD *Tyn*, Coll. *Tor*, MTh DD, Principal; Rev. T. A. M. Barnett, MA, Prof. (3) Emanuel—for staff, see under Victoria Univ., p. 392

## AFFILIATED UNIVERSITY

YORK UNIVERSITY\*

Incorporated 1959

Postal Address: 2275 Bayview Avenue, Toronto 12, Ont., Canada

Telephone 487-5111

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## Teaching Staff

[†=Part-Time; \* = Chairman of Dept.]

BIOLOGY. Assoc. Prof.: C. D. Fowle, MA *Bi. Col.*, PhD (Actg. Chairman).

CHEMISTRY. Asst. Prof.: O. R. Landell, BA *Qu.*, PhD *M.I.T.*

ECONOMICS. Assoc. Prof.: G. V. Dorey, BSc *Leam.*, MA *Cape T.* Asst. Prof.: Mrs. Sheila B. Eestman, PhD

ENGLISH. Assoc. Prof.: H. N. Mackean, BA *Pin.*, PhD. Asst. Prof.: H. K. Galing, MA *Oxav.*, D. G. Lockhead, BA BLS *McG.*, MA. Lectrs: Mrs. Clara Thomas, MA *W.O.*, J. Winter, MA *McG.*

FRANCE. Assoc. Prof.: L. J. Proeger, MA *Br. Col.*, DUpais, PhD *Harv.* (Actg. Chairman). Asst. Prof.: G. D. Jackson, BA *Maur.*, PhD. Lectrs: Catherine E. Holmes, BA *Maur.*, MA *Middlebury*; Mrs. Joan C. LeGall, BA *Alta.*, MA.

GEOGRAPHY. Prof.: J. L. Carol, PhD *Zur.*, G. Tatham, MA *Lev.*, PhD *Clark.*

HISTORY. Prof.: E. W. Melnik, MA *Oxav.*, LLD *Dartmouth*, BA. Asst. Prof.: A. L. Murray, BA *McM.*, MA *Leam.*, PhD *Pin.* Lectrs: J. F. Brichmann, AB *Harv.*, LMS *Prinf.*, J. T. W., MA, D. S. Rickard, BA *Qw.*, MA *Oxav.*

\* Associate Member of the Association of Universities of the British Commonwealth

HUMANITIES. Prof. W. M. Kilbourn, MA *Oxav.*, PhD *Harv.*, BA (Chairman of Dep.)

MATHEMATICS. Prof.: D. C. Russell, BSc *Sheff.*, PhD *Leam.*, I. R. Pounder, PhD *Cluc.*, MA. Asst. Prof.: Alice W. Turner, MA *McG.*, PhD

PHILOSOPHY. Assoc. Prof.: H. S. Harris, MA *Oxav.*, PhD *Ill.* (Actg. Chairman). Lectrs: J. D. McFarland, MA, L. Rubinsoff, BA *Qw.*, MA

POLITICAL SCIENCE. Prof.: D. V. Verneer, MA *Oxav.*, PhD *Lev.* Asst. Prof.: M. Davis, AB *Harv.*, PhD *Prin.*, H. Kaplan, PhD *Col.*, D. Smith, BA *McG.*, MA *Blatt Oxav.*

PSYCHOLOGY. Asst. Prof.: N. S. Badler, MSc *McG.*, PhD *Ill.* Lectr.: V. Seimst, PhD *Yale.*, BA

RUSSIAN. Lectrs: G. Halpin, MA *Calif.*; Galina Kruberg, BA *McM.*, MA

SOCIAL SCIENCE. Prof.: M. G. Ross, BA *Hon.*, DCL *Acad.*, EdD *Col.*, MA, FASA. Assoc. Prof.: W. B. Simon, MS *Harv.*, PhD *Col.*

SOCIOLOGY. Prof.: J. R. Sealey, AB *Cluc.*, Assoc. Prof.: R. J. Coughlan, PhD *Yale.* Lectr.: R. J. Osenberg, MA *Buffalo*

SPANISH. Lectr.: Mrs. Edith Guild, MA *Tw.* Asst.: A. Vicki.

*General Information.* York Univ., incorporated in 1959, admitted its first students in Sept. 1960. The univ. takes its name from York County, Ont., in which it is located, and from the original name of the city of Toronto. For a minimum of 4 yrs., the univ. is affiliated with the Univ. of Toronto. During the period of affiliation it offers a curriculum in the 3-yr. (3-yr.) course in arts & sci. (for BA of Univ. of Toronto). Fees (1962-63) \$500 (incl. registration, tuition, library, lab., exams, degree, athletics, health service, student union and student organs)

Student Numbers (1961-62) 216 full-time students in 1st and 2nd yrs.

From Sept. 1963, the Joseph E. Atkinson Coll. of York Univ. has offered limited programme of civ. courses leading to BA. Fees \$400 per course. Lectrs: N. M. Morrison, BA *Maur.*, Engl. Assoc. Prof.—H. K. Galing, MA *Oxav.*, master: asst. prof.—Alice W. Turner, MA *McG.*, PhD

# AFFILIATED COLLEGES

## ONTARIO AGRICULTURAL COLLEGE

Established 1874

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**Officers of Administration** President—J. D. MacLachlan, BA Qv, AM PhD *Hon* President Emeritus—W. R. Reek, MBE, LL.D. *W Ont.*, BSA. Principal, Macdonald Institute (Hornes Eco) —Margaret S. McCready, PhD *Alberta*, BA Registrar—H. W. Pettipiece, MEd *Conn.*, BSA. Bursar—L. Z. O'Neil. Dir. of Public Relations—J. A. Eccles, BSA. Dean of Men and Student Counsellor—I. A. White, MS *Mich State*, BSA. Affiliated Officer Du. of Extension Liaison, Ontario Dept. of Agric.—E. I. McLoughry, BSA.

### Teaching Staff

(Hds. of depts. & other full-time teaching offices of professional rank)

**AGRICULTURAL ECONOMICS** Prof., Hd. of Dept. —D. R. Campbell, BA *Ont.* & *Tor* Profs. —S. H. Lane, BSA MSc *Sask.*, M. A. MacGregor, MSA PhD *Conn.*, BSA. Assoc. Profs. —F. O. Sargent, BA *Colby*, PhD *W Va.*, G. I. Trant, MS PhD *Mich State*, BSA, P. A. Wright, BSc(Agr) *McG*, MS *Mich State*. Asst. Profs. —W. M. Brashwaite, BA *W Ont.*, CA; A. A. Burnett, BSc(Agr) *MA McG*, R. G. Marshall, MS *Mich State*, BSA; D. H. Plaut, BSc(Agr) *McG*, MS *Kentucky State*, A. C. Robertson, BSA; J. W. L. Winder, BComm *MA PhD Ont.*

**ANIMAL HUSBANDRY** Prof., Hd. of Dept. —G. E. Rnithy, BSA. Prof. —J. C. Rennie, MS PhD *Iowa State*, BSA. Assoc. Profs. —T. D. Burgess, PhD *Near*, MSA, R. H. Ingram, MNS *Conn.*, PhD *Penn State*, BSA; G. K. Macleod, MS *Caloado*, PhD *Calif.*, BSA, M. W. Staples, MS *Iowa State*, BSA. Asst. Profs. —R. P. Forshaw, BSA *Br. Col.*, MSc *McG*, W. O. Kennedy, BSA.

**APPLIED AGRICULTURE** Prof., Hd. of Dept. and Provincial Apiarist —G. F. Townsend, MSA. Assoc. Prof. in Res. —R. W. Shael, PhD *Ohio State*, MSA. Asst. Prof. in Extension —P. W. Burke, BSA, Asst. Provincial Apiarist. Asst. Prof. in Res. —M. V. Smith, PhD *Conn.*, MSA.

**BOVANY** Prof., Hd. of Dept. —F. H. Montgomery, MA *McM* Profs. —R. O. Bibbey, BSA MSc *Sask.*, PhD *Iowa State*; B. H. MacNeill, BSc *Acad.*, PhD. Assoc. Profs. —H. M. Dale, MA PhD; C. B. Kelly, MS *Mich State*, BSA; C. M. Switzer, PhD *Iowa State*, MSA; R. T. Riddell, MA PhD *McM*. Asst. Profs. —G. L. Burton, BSc *Glas.*, PhD *Iowa State*, MSA; D. M. Huston, PhD *Virginia*, BA; L. V. Busch, CD, PhD *W Va.*, MSA; S. G. Fushley, BSc(Agr) *MSc Alta.*, DIC, PhD *Sask*

**CHEMISTRY** Prof., Hd. of Dept. —R. S. Brown, MA Qv, PhD *McG* Profs. —L. A. Bask, MS *Mich.*, BSA, FCIC; D. Waghorne, PhD *Mich State*, BSA. Assoc. Prof. —W. H. Brown, MA PhD, FCIC. Asst. Profs. —H. E. Brauns, MSA, R. W. F. Hardy, MSc PhD *W Va.*, BSA, J. R. Rodwell, BSA.

**DAIRY SCIENCE** Prof., Hd. of Dept. —D. M. Irvine, MSc PhD *W Va.*, BSA. Prof. —A. M. Pearson, MS *Iowa State*, BSA. Assoc. Profs. —D. H. Bullock, PhD *W Va.*, MSA, F. W. Hamilton, BSA, A. G. Leggett, MSA. Asst. Profs. —D. R. Arnett, BSA *Mont.*, MSc *Alinn*, PhD *Penn State*; D. A. Buggs, BSc *Sask*, MSA.

**ENGINEERING SCIENCE** Prof., Hd. of Dept. —C. G. E. Downing, BE *Sask*, MSc *Iowa State* Profs. —H. D. Ayers, BE *Sask.*, MS *Wash. State*, D. R. Pattie, BSc PhD *Glas.*; F. H. Thomsen, BSc *Acad.*, MSc *N.S.T.C.* Assoc. Profs. —W. K. Bilamka, MS PhD *Mich State*, BSA; F. R. Hore, MS *Mich State*, BSA, J. G. F. Meenan, BSc *Dal.*, BE *N.S.T.C.* Assoc. Prof. in Res. —S. H. Collins, MA. Asst. Profs. —D. E. Clark, BSA, R. W. Irvine, MS *Iowa State*, BSA, J. H. A. Lee, BSc *Sask*, MSc; H. K. Malinowski, BSc *Winnipeg*, J. Pos, MS *Mich State*, MSA, P. H. Southwell; E. G. Webb, BSA, D. Witherspoon, MS *Mich State*, DipHydEng *T.H. Delft*, BSA. Asst. Prof. in Res. —R. Ginnell, BS *Purdue*, MSc *Mont*

**ENGLISH** Prof., Hd. of Dept. —A. M. Ross, MC, MA Qv. Assoc. Profs. —M. A. King, BA *W Ont.*, MA *McM*; D. A. Riggs, BA *W Ont.*, MA *Col.*. Asst. Profs. —W. Carpenter, MA *McM*; J. P. Hume, MA Qv; W. R. Martin, MA *S.A.*

**EXTENSION EDUCATION** Prof., Hd. of Dept. —H. W. Caldwell, BSA MSc(Ed) *Conn.*, PhD *Oregan*. Prof. —G. L. Warkow, MA *Wayne*, BSA. Assoc. Prof. —R. W. Dent, MA.

**FIELD HUSBANDRY** Prof., Hd. of Dept. —W. E. Tossell, PhD *W Va.*, MSA. Prof. —G. E. Jones, MSA. Assoc. Prof. —R. S. Fulkerson, MSA. Assoc. Profs. in Res. —E. E. Gamble, PhD *Iowa State*, MSA; E. Reinburgs, B(Agon) *Yelgaw*, PhD *Mont.*, MSA; J. E. Welch, PhD *Conn.*, MSA. Asst. Profs. —G. W. Anderson, MSA; N. C. Stoskopf, MSA; B. E. Twinnley, BA Qv, MSc PhD *Sask*, BSA; W. D. Wadell, BSA *Mont.*, MS *Alinn*; W. S. Young, PhD *Conn.*, MSA. Asst. Prof. in Res. —B. R. Christie, PhD *Iowa State*, MSA.

**HORTICULTURE** Prof., Hd. of Dept. —R. J. Hilton, BSc(Agr) *McG*, PhD *Low* Profs. —

V. Chanasysk, BSc(Agr) *Alta*, BSA(LA) *Calif*,  
MLA *Haro*; E. W. Franklin, MSA Assoc  
Prof. R. Goodwin-Wilson, BSA Assoc Prof  
in Res. T. O. Gusham, MS *Man*, BSA Asst  
Prof. M. H. Dickson, BSc(Agr) *McG*, MS  
PhD *Mich State*, W. D. Evans, BSc(Agr) *MSc  
Alta*, C. E. McNinch, BSA, R. G. Rowberry,  
MSA, J. C. Taylor; B. J. E. Teskey, MSA,  
H. Tieszen, MS PhD *Mich State*, BSA, A.  
Zatosh, IngAgr *Bratolava*, MSc PhD *Alta* Asst  
Prof. in Res. E. Teisman, *Daglon Testu*,  
C. G. Waywell, BSA MSc *Sask*.

Microbiology Prof., Hd of Dept. E. H.  
Ginsaid, MSA Prof. F. R. Chase, PhD  
McG, MSA, L. A. McDermott, MSA; M. L.  
Wright, MSA Assoc Prof. in Res. G. W.  
Anderson, MSc Dal, PhD *Yates Agric*, BSA,  
C. T. Cooke, MSc IF Ont, PhD *Rutgers*; R. J.  
Douglas, PhD *Mich State*, MSA, K. F. Gregory,  
BSA B Col, MSc PhD *Wis.*, D. C. Jordan,  
PhD *Mich State*, MSA Asst Prof. I. A.  
Carpenter, CD, MSA; J. D. Cunningham,  
MSA; R. A. Johnston, MSA Asst. Prof. in  
Res. N. A. Epps, MSA, J. B. Robinson, MSA,  
R. E. Smith, MSA.

NUTRITION Prof., Hd of Dept. H. D.  
Barnum, MA PhD, FCIC Assoc Prof. E. V.  
Evans, MA IF Ont Assoc Prof. in Res. D. C.  
Hill, PhD *Man*, MSA, FCIC, I. Matsak, MSA  
PhD Asst Prof. D. Arthur, MSA Asst  
Prof. in Res. K. J. W. Jenkins, BSc(Agr) *McG*,  
MSc *Sask*, PhD *Wis.*; I. R. Subsid, BSc *Leeds*,  
MSc PhD *Alta*.

PHYSICAL EDUCATION Assoc. Prof. W. F.  
Mitchell, BSA.

PHYSICS AND MATHEMATICS Prof., Hd. of  
Dept. E. B. MacNaughton, MA PhD Prof.  
G. C. Ashton, MSc *McG*, PhD *N Carolina*,  
BSA Assoc Prof. R. S. Gage, PhD *Iowa  
State*, MSA; J. R. Stevens, MA PhD Asst  
Prof. A. Kwei, BSc *Seachess*, MA, R. H.  
Steinman, MSA PhD IF Ont.

POULTRY SCIENCE Prof., Hd of Dept. J. R.  
Cavers, MS *Man*, BSA Prof. F. N. Jerome,  
PhD *Corn*, MSA; S. J. Shenger, PhD *Corn*,  
MSA; E. S. Snyder, MS *Wis.*, BSA Assoc  
Prof.; J. H. Pettie, MSA; C. M. Winger, BA  
*Sav Francisco State*, PhD *Calif*. Asst. Prof.:  
E. C. Hume, MSA, H. L. Orr, MS *Penn State*,  
BSA; J. P. Walker, MS *Penn State*, BSA. Asst  
Prof. in Res.: C. M. Huntsman, BSA.

SOIL SCIENCE Prof., Hd. of Dept. N. R.  
Richardson, MS *Mich State*, BSA Prof. B. C.  
Matthews, AM *Missouri*, PhD *Corn*, BSA  
Assoc Prof. T. J. Hoag, MSA; L. R. Webber,  
MSA, BSA Assoc Prof. in Extension. T.  
H. Lane, MSA Assoc Prof. in Res. D. W.  
Hoffman, MSA; J. W. Ketcheson, MS PhD *Ill*,  
BSA; K. M. King, MS PhD *Wis.*, BSA, M. H.  
Miller, MS PhD *Purdue*, BSA, A. L. Willis,  
MS PhD *Wis.*, BSA. Asst Prof. in Extension  
W. T. Ewen, MSA. Asst Prof. in Res. T. E.  
Bates, MS *N Carolina*, PhD *Iowa State*; A. F.

MacKenzee, BSA MSc *Sask*, PhD *Corn*, R. W.  
Sheard, BSA *Sask*, MSA, J. A. Smith, MSA.  
Zoology Prof., Hd of Dept. W. E. Hem-  
ling, PhD *Corn*, BSA Prof. W. W. Goble, MS  
*Iowa State*, BSA, Provincial Entomologist;  
R. H. Osburn, MS *Man*, BSA, FAAAA Assoc  
Prof. A. de Vos, MS PhD *Wis.*, S. E. Dixon,  
BA *Mich*, PhD *Corn*, MSA, H. R. McCrum-  
men, BA *Mich*, PhD, A. J. McGuire, DIC,  
MSc *Leeds*, PhD *McG*; J. G. Oughon, BA  
PhD; D. H. Pengelly, BSc *Alta*, PhD *Corn*,  
MSA. Asst Prof. W. C. Allan, CD, MSA,  
A. H. Best, BSc IF Ont, MA; A. T. Cingan,  
BScF MA, A. G. McNally, CD, MA IF Ont,  
K. Ronald, MSc PhD *McG*.

## MACDONALD INSTITUTE

Postal Address: Guelph, Ontario, Canada

HOME ECONOMICS Principal: Margaret S.  
McCready, PhD *Alta*, BA Prof. Mabel  
Sanderson, MA *Cal*, PhD *Purdue*, BHSc; Mary  
E. Singer, MS *Iowa State*, PhD *Ohio State*,  
BHSc Assoc Prof. Edyth L. Bray, MS *Man*,  
BHSc; Olive M. Wallace, MS *Corn*; Grace C.  
Frank, MSc *Mont*, BA Asst Prof. R. Marye  
Ballintyne, MA; Louise E. Bidd, BA; Kathleen  
R. Brown, BSc(HEC) *McG*, MS *Corn*, G. R.  
Coulting, Mrs. Eleanor M. Currie, BSc *Bed  
Alta*, MA *Mich State*, Lila E. Eggberg, BSc  
*Alta*, MS *Iowa State*, Elizabeth A. K. Gullett,  
MS *Wis*, BHSc, Frances M. Kidd, BA,  
Martha R. Rader, BSc(HEC) *McG*, MS *Tennessee*,  
Helen E. M. Stewart, BA, F. Marion Vasey,  
BSc(HEC) *Man*, MSc *McG*, Lindsay A.  
Weld, MA DipCS.

General Information Admission requirements  
are same as Univ. of Tor. See Appendix III.

The main divisions of the coll. are agric and  
home econ. Courses in agric: associate dipl., 2  
yrs., BSA degree, 4 yrs.; also short courses.  
Res. and investigation form an important part of  
the work. Facilities are also available for grad.  
work. MSA degree, 1 or 2 yrs. Courses in home  
econ. at Macdonald Institute: dipl. course, 1 yr.,  
degree course (BHSc), 4 yrs.

Library, approx. \$5,000 vols. (incl. depth.  
librs.), sp. collection of Canadiana, incl. early  
agric. journals. Chief librarian: Florence G.  
Partidge, BHSc BLS; librarian: Marion D.  
Cameron, BA MLS.

Tuition fees—degree course students resident  
in the Commonwealth, in all yrs., \$850 p.a.,  
degree course students from outside the Com-  
monwealth, in all yrs., \$350 p.a., dipl. course  
students resident in the Commonwealth, \$25 p.a.;  
dipl. course students from outside the Common-  
wealth, \$100 p.a. Contingency fees, all courses,  
\$10 p.a.

Rooms for over 650 students, men and women,  
on coll. campus. Bd. and room, \$12.50 per wk.

Student Numbers (1961-62) Ontario Agric.  
Coll., 964; Macdonald Inst., 270. (All students  
full-time)



## ONTARIO VETERINARY COLLEGE

Established 1862

Postal Address: Guelph, Ontario, Canada

Telephone: Taylor 2-2330

*Officers of Administration* Principal—T. L. Jones, MSc McG, Hon DMV *Master*, DVM *Bursar and Secretary*—W. J. Beary, Librarian and Registrar—F. E. Gattinger, MA Sank, BLS McG. Assistant to Principal—Joan McDonald, BA W Ont

## Teaching Staff

(Hds of depts & other full-time teaching officers of professional rank)

*ANATOMY*, Prof, Hd of Dept.: J. H. Ballantyne, MS Mack State, DVM

*Div of Gross Anatomy* Prof, Hd of Div: J. H. Ballantyne, MS Mack State, DVM. Assoc. Prof: B. M. McCraw, PhD Mich, MA Asst Prof: H. Heichen, DrMedVet Giesen; O. W. Sack, DVM

*Div of Microscopical Anatomy* Prof, Hd of Div: J. P. W. Gilman, BVSc Asst Prof: P. K. Bissar, MSc Mys, PhD, P. M. Mann, MSc W Ont

*MEDICINE AND SURGERY*, Prof, Hd of Dept.: J. A. Henderson, MS Conn, DVM

*Div of Medicine* Prof, Hd of Div: Assoc. Prof.: J. F. Cote, DVM, C. K. H. Roe, MS Ill, DVM Asst Prof.: T. J. L. Alexander, BSc(VetSci) Lond, MVSc; R. A. Curtis, DVM, C. M. Fraser, BSA Mont, DVM, R. A. Willoughby, DVM

*Div of Surgery and Obstetrics* Prof, Hd of Div: F. J. Milne, DVM Colorado, DrMedVet Ziv Assoc. Prof: F. D. Horsey, DVM Asst Prof

*Div of Animal Reproduction* Prof, Hd of Div: C. A. V. Barker, MSc McG, DVM DVSc Assoc. Prof.: J. W. Macpherson, DVSc

*Div of Small Animal Medicine and Surgery* Prof, Hd of Div: J. Archibald, DrMedVet Giesen, DVM MVSc Assoc. Prof.: A. J. Cowley, DVM MVSc, J. H. Reed, DVM. Asst Prof: L. H. Reid, DICTA, MS Conn, DVM; P. W. Pennoek, BS New Hampshire, DVM

*PARASITOLOGY*, Prof, Hd of Dept.: Assoc. Prof.: D. J. Campbell; J. K. McGregor, MSc McG, DVM DVPH

*PATHOLOGY AND BACTERIOLOGY* Prof, Hd of Dept.: D. L. T. Smith, PhD Conn, DVM

*Div of Pathology*, Prof, Hd of Div.: J. D. Schoder, MS Mass, DVM Prof.: K. V. Jubb,

BVSc Syd, MS PhD Conn Assoc. Prof.: T. J. Halland, PhD Edm, DVM, B. J. McSheery, DVM MSA

*Div of Bacteriology*, Prof, Hd of Div.: D. A. Hanson, DVM DVSc DVPH Assoc. Prof.: N. A. Fish, DVM DVPH, R. J. Hamble, BA MEd, DVM, K. A. McKay, MA DVM MSA, C. G. Wills, DVM Assoc. Prof. in Res.: F. H. S. Newbould, MSA, M. Savan, MS PhD Wis, DVM Asst Prof: G. N. G. H. Lang, DV Lyons Asst Prof in Res.: D. G. Ingram, PhD Camb, DVM DVSc

*Div of Pathology*, Prof, Hd of Div: A. E. Ferguson, BSA DVM Asst Prof.: M. C. Connell, DVM, R. B. Truscott, DVM MSA

*Div of Zoonoses and Diseases of Wildlife* Assoc. Prof, Hd of Div: L. H. A. Karstad, MS PhD Wis, DVM Asst. Prof: T. J. Pridham, DVM MVSc

*PHYSIOLOGICAL SCIENCES* Prof, Hd of Dept: H. G. Downes, MS Conn, PhD W Ont, DVM MVSc

*Div of Physiology*, Prof, Hd of Div.: H. T. Batt, MS PhD Conn, DVSc Assoc. Prof.: C. R. Cameron, BA DVM MSA; A. R. Graham, MSc PhD W Ont, J. I. Renssler, BSc Glas, MS PhD Missouri

*Div of Pharmacology* Prof, Hd of Div: W. T. Oliver, MSc PhD McG, DVM

*Div of Pathological Physiology* Prof, Hd of Div: H. C. Russell, PhD Minn, DVM DVPH Asst. Prof: G. A. Robinson, MSc PhD W Ont

*EXTENSION*, Prof: W. R. Mitchell, DFC, DVM DVPH Asst Prof.: H. J. Neely, DVM

The coll. is under the Dept. of Agric for Ontario and is affiliated with the Univ. of Toronto Entrance requirements are established and approved by the univ (see Appendix III). Accommod. for all 1st yr. students, and for most 2nd, 3rd, 4th and 5th yr. students is available in residences on Guelph campus shared by Vet. Coll. and 2 other colls. MacNabb memorial lib. contains wide range of textbooks and reference books on vet med. Facilities of Massey lib., on campus, also available to vet students for works in agric., soc. scis., and humanities

Students of Vet. Coll. may read for DVM degree of the univ (5 yrs.). A grad study programme leading to MVSc of the univ is also available

ONTARIO COLLEGE OF ART, 100 McCaul St., Toronto (tel.: EM 6-4977). Principal—S. H. Watson.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO, 234 St. George St., Toronto (tel.: WA 2-4552). Registrar—W. J. Dunn, DDS.

## GENERAL INFORMATION

There are 4 clearly defined periods in the hist. of the Univ. of Toronto: the foundation of King's Coll. and its progressive secularization, 1827-49; the Univ. of Toronto in isolation, 1850-89; federation, 1889-1905; and the period of consolidation and expansion from 1905 until the present day.

The univ. was founded in 1827 by royal charter as King's Coll. at York, as the state univ. of the province of Upper Canada, in close connexion with the Church of England. This moved other denominations to establish colls. independent of King's. Victoria was established by the Methodists at Cobourg in 1841, and Queen's at Kingston by the Presbyterians in the same yr. It was not until 1843 that the work of instruction began at King's Coll., the first degrees were granted in 1844. In 1849, after a bitter controversy, King's Coll. was secularized, removed entirely from its connexion with the Church of England, and its name changed to the Univ. of Toronto.

Irked by this secularization, the Church of England in 1851 founded its own Univ. of Trinity Coll. In 1852 the Basilean Order established St. Michael's Coll. In 1853 a further change was made in the Univ. of Toronto through the creation of Univ. Coll. to which was given the entire work of instruction, the univ. itself becoming merely a legislative and examining body similar to the Univ. of London then recently establd. This move was prompted by the hope that the rival univs. would enter into federation, a vain hope for many yrs.

Only in the early eighties did representatives of the other colls. enter into negotiations for a scheme of federation, which was embodied in an act of the Ont. legislature in 1887. In 1890 Victoria and St. Michael's entered into federation with the Univ. of Toronto. Trinity Coll. was federated in 1904.

In 1905 the Ont. govt. appointed a commission to investigate and recommend action in regard to the univ. The Univ. of Toronto Act of 1906 laid the foundation of the present constitution of the univ. The present authority is that given by the Univ. of Toronto Act 1947 (as amended up to 1950).

Federation is confined to the fac. of arts & sci. The fac. is composed of 4 colls.: University Coll., Victoria Coll., Trinity Coll. and St. Michael's Coll., all of whose students meet the same admission and curricula requirements authorized by the senate. The financial affairs of Univ. Coll. are administered by the bd. of governors of the univ. but the other three colls. are autonomous instns. with degree-granting powers. They administer their own financial affairs and exercise their degree-granting powers only with respect to degrees in divinity.

In addn., Knox Coll. and Wyckoff Coll. are theol. instns. affiliated with the univ., but the senate exercises no control over their curricula. The situation is parallel with respect to Em-

manuel Coll., the theol. coll. of Victoria Univ., and with respect to degrees in divinity offered by the Univ. of Trinity Coll. and the Univ. of St. Michael's Coll.

Situated in Guelph, 65 mls. from Toronto, are the Ont. Agric. Coll. and Ont. Vet. Coll., whose students proceed to degrees of the Univ. of Tor. These 2 affiliated colls. work in close co-operation with the provincial dept. of agric., which is ultimately responsible for their financial operations.

York Univ. (see p. 377) opened in autumn 1960 as an affiliated instn. of the Univ. of Toronto. Students attending York Univ. read for degrees of the Univ. of Toronto and initial teaching in York is confined to subjs. in the general arts course at the Univ. of Toronto.

New Coll. (see p. 376), opened 1962, will provide, within next yr. at two, residential accomm., tutorial arrangements, common rooms and dining facilities. The coll. is co-educational with enrolment drawn from all undergrad. divs. of the univ., and is an integral part of the Univ. of Toronto.

Missey Coll., a residential coll. for male grad. students, is under construction (1962) and is expected to open in 1963-64. Apppts. will be divided as evenly as possible between men working in the humanities and the sci. at the Univ. of Toronto. The coll. will provide living accomm., dining and common room facilities, and a lib. specially stocked and designed for res. studies. Mstrs.: R. Davies, Blatt Oxon, Hon. LLD *altis*, Hon. D. Latt McM.

**CONSTITUTION.** The univ. is administered by 2 sr. bodies: the bd. of governors (33 members) apptd. by the lt.-govt. in council of the province of Ontario and primarily concerned with finance; and the senate (174 members), which is the official authority on all academic matters. Senate includes 37 ex-officio coll. hds., deans, chs., etc., 19 reps. of professional licensing bodies, 59 reps. of the teaching fac. and 59 elected members of the grad. body.

The chancellor, chairman of the bd. of governors and pres. are ex-officio members of both senate and bd. of governors. The pres. is the chief executive officer of the univ. in both academic and financial areas, the chancellor, elected by a cttee. of election of 55 reps. of the grads., presides at convocations and certain other formal occasions.

**INCOME (1960-61)** Total income (not including federated univs. or such subsidiary orgns. as Royal Conserv. of Music of Toronto, Ont. Coll. of Educn., univ. press, Connaught med. res. labs.), \$22,955,203 (govt. grants, 53.8 per cent.; student academic fees, 21.5 per cent.; gifts and grants for assisted res., 14.8 per cent.; endowed income, 1.7 per cent.; other sources, 8.2 per cent.)

**UNIVERSITY PRESIDENT** The univ. is in the heart of Toronto. 4 of the city's principal arteries

bound or cut through univ. properties. The univ. has acquired a 26-acre tract of land W. of St. George St., Toronto, where a proposed 12-yr. programme of expansion is already under way to provide the new bldg. that will be needed as enrolment increases.

**LIBRARY** 1,399,232 items (incl. stock of Univ. Coll. libr. and 26 dept. librs.); 3 fed. univs., 209,814, 2 fed. colls., 73,320, total vols. on campus, 1,673,566. The lib. has sp. collections of French-Canadian lit., of Italian & Spanish belles-lettres and of 18th-cent. Engl. lit.

**MUSEUMS.** Royal Ontario Museum, 100 Queen's Park. Dir.—T. A. Heinrich, MSc PhD LL.D. World's largest univ. museum, functions also as provincial public museum. 3 customal divs. with 84 pub. galleries and each with res. collections and programme, reference library, service depts., etc., plus educn. div., office of information services, admin. dept. *Art & Archaeol. div.* permanent galleries, research collections in each of Greek and Roman, nr. eastern, far eastern, European, textiles, Canadiana, and ethnol. depts. Collections illustrate pre-hist., classical civilizations, medieval, and mod. Europe, outstanding Chinese collection covering entire range of art and archaeol., with large Chinese library, extensive ethnol. collections with emphasis on American Indian, N. American archaeol. collections and active res. programme; Sigmund Samuel Canadiana collection housed separately at 14 Queen's Park Cresc. West. *Life sci. div.* depts. of mammal, ornithol., herpetol., ichthyol., invertebrates, fossil vertebrates, fossil invertebrates, each with extensive res. collections and facilities. Permanent public galleries, especially noteworthy in fossil vertebrates, ichthyol., and herpetol. Important reference library. *Earth sci. div.* depts. of geol. and mineral. Pub. galleries of physical and appl. geol., systematic gallery of mineral, gem collection display. Extensive res. collections and library. *Educn. div.* conducts museum educn. programme for Ontario schools and adult groups, film programmes, children's clubs, etc. *Office of information services:* conducts pub. relations programme, audience tes., museum radio and television, etc. All res. collections, libraries and museum facilities are available to res. workers.

**THE PONTIFICAL INSTITUTE OF MEDIEVAL STUDIES** of St. Michael's Coll. is a grad. sch. of res. The fac. members are members of the grad. sch. of the univ. The students may register in the univ. as working for the MA or PhD degree. They may also qualify for the licentiate (LMS) and the doctorate (MSD) degrees awarded by the inst.

**THE ROYAL CONSERVATORY OF MUSIC** OF TORONTO is within the univ. framework. It consists of two separate departments. The fac. of music of the Univ. of Toronto, which is housed in the Edward Johnson bldg., constructed in 1972 especially for the fac. Among other things, this

bldg. contains a fully equipped opera house, a concert hall, a rehearsal hall and a lecture-recital hall, as well as classrooms, teaching studios, etc. There is a very complete music lib. and also an electronic music lab. The sch. of music of the Royal Conservatory will move shortly to the converted bldg. of the dept. of pol. sci. in the univ., very close to the Edward Johnson bldg. The sch. includes a concert hall as well as the usual teaching studios, classrooms and offices.

**LABORATORIES** in all the sci. depts. A sub-critical REACTOR has recently been installed for the fac. of appl. sci. & engin.

**BANTING INSTITUTE** with depts. of pathol., bacteriol., med., surg., obstet. & gynecol., ophthalmol., otolaryngol., pathol. chem. for teaching, clin. investigation and res. work, art as appl. to med.

**CHARLES II BENT INSTITUTE** Dept. of physiol. and Banting & Best dept. of med. res.

**INSTITUTE OF AERONAUTICS**, near Steeles Ave. and Dufferin St., establd. in 1949 to train scientists and engineers in the mechanics of gases and plasmas, in the dynamics and gasdynamics of flight in the atmosphere and in space, in the design and analysis of flight structures, and for conducting res. in these areas, this is the only lab. of its kind in Canada.

**INSTITUTE OF COMPUTER SCIENCES**, administered independently, but staff members have cross-appts in phys., maths, elect. engin., etc. Operates IBM 7090 computing facility and conducts res. in numerical analysis, scientific computing and data processing.

**CONNAUGHT MEDICAL RESEARCH LABS.** provide facilities for res. in prev. med. and in related fields and for production of and supply of sera, vaccines, hormones, antibiotics and other biol. preparations that are of importance to pub. health. Farm has been extended and is now approx. 230 acres. Second farm of 300 acres has been purchased.

**DAVID DUNLAP OBSERVATORY**, Richmond Hill, contains a 74-in. reflecting telescope which may be used either as a Cassegrain or a Newtonian, one of the largest in the world. Recent acquisitions include radio telescopes.

**HOSPITALS** available for clinics, Toronto H. (general), 1450 beds, Sick Children's H., 617, St. Michael's H. (general), 922, Western H. (general), 815; Psychiatric H., 80; Sunnybrook H. (veterans), 1450, Women's Coll. H., 279, Wellesley H., 285, Princess Margaret H., 120.

**FACULTIES** *Appl. sci. & engin.*, Prof. R. R. McLaughlin (chem. engin.), dean, *arts & sci.*, Prof. V. W. Jorden (pol. econ.), dean; *dent.*, Prof. R. G. Ellis, dean, *educn.* (Ontario Coll. of Educn.), Prof. B. C. Dillz, dean, *far.*, Prof. J. W. B. Sasser, dean; *household sci.*, Prof. Barbara A. McLaren, dir.; *law*, Prof. C. A. Wright, dean, *med.*, Dr. J. D. Hamilton, dean, *nurs.*, Dr. A. M. Walker, dir.; *pharm.*, Prof. F. N. Hughes, dean.

**SCHOOLS** *Abknt.* Prof. T. Howarth, dir., *grad studies*, Prof. A. R. Gordon (chem.), *dent.*, *hyg.*, Prof. A. J. Rhodes, *dir.*; *librany*, Prof. Beata Boszormenyi, *dir.*; *music*, Prof. Helen M. Carpenter, *dir.*; *phys. & health edn.*, Prof. J. H. Ebbs, *dir.*; *soc. work*, Prof. C. E. Hendiv, *dir.*

**INSTITUTES** *Bns. admin.*, Prof. O. W. Mann, *dir.*; *child study*, Prof. K. S. Bernhardt, *dir.*; *div. of sure extension*, Prof. D. C. Williams, *dir.*; *div. of rehabilitation med.*, Prof. A. T. Jousse, *dir.*

**SCHOLARSHIPS OF FACULTIES AND SCHOOLS** (Arts & sci.) W. D. Foulds, BA, (med.) Mary L. Cassidy, BA, (appl. sci. & engin.) J. A. Gow, BAsSc, (household sci.) M. Doreen Smith, MA PhD, (educn.) Alice A. L. Elhott, BA; (for.) D. V. Love, BScF MF, (music) Mrs. G. E. Lennon; (grad studies) Jean E. Gordon, (dent.) M. A. G. Read, (pharm.) Flora M. Ward, BA, (law) Joyce McLennan, (archt.) Mrs. H. Ingram, (phys. & health edn.) Margaret Cook, (soc. work) Margaret M. Irvine, (care.) Muriel J. Smith, (hyg.) D. J. MacLennan, OBE, ED, MB BSc(Med) DPH, (child study) Mrs. J. Oman, Erna Ross; (bus. admin.) R. A. Montemurro, (inst. of otolaryng.) Mrs. E. Pakima, (sch. of business) Ann Cartwright, (libr. sch.) Ava Seads, (extension div.) Margaret Platt.

**ADMISSION** See Appendix III.

**FIRST DEGREES** 3 yrs.—BA (general course), BSc (general course), MusBac (general music), BPHE (3 or 4 yrs.), 3 yrs. after at least 2 yrs. arts or BA—LLB, 4 yrs.—honour BA, BCom, BSc, BASe, BSc(Med), MAsBac (educn.), BScD, BHSc, BScF, BScPhm, BSA, BScN (3 yrs. for grad nurses), 5 yrs.—BA; ch, DDS, DVM, 6 yrs.—MD, no time limit, min. 4 yrs.—BA general course (dept. of extension).

Honour BA may be taken in the following courses, with specific requirements beyond the minimum: classical, Engl. lang. & lit., Islamic studies, Latin (Engl. or Italian option), Latin (French or Gl. option), mod. hist. (Engl. option), mod. hist. & mod. lang., mod. lang. & lit., music, household econ., with only minimum requirements; anc. or eastern studies, mod. or eastern studies, east. asiatic studies, fine art, philos. (Engl. or Irish option), Slavic studies (and-yr. course after Russian mod. in any 1st-yr. course), and a 1st-yr. course called soc. and philosophical studies leading into anthropol., geog., mod. hist., philos., pol. sci. & econ., psychol., social.

Honour BSc may be taken in the following courses, with specific requirements beyond the minimum: a 1st-yr. course called math., phys., chem. leading into math. & phys., phys. & chem., phys. & geol., chem., a 1st-yr. course called science leading into biol., food chem., geog., geol., aces., physiol. & biochem.

A student who has already graduated in the fac. of arts, med. or sci. of a Canadian or other recog. univ. may complete the course in dent. in 4 yrs.

instead of 5, provided he has covered certain prescribed subjects during his undergrad. course, and persons holding an LDS obtained in Gr. Britain or Ireland registrable by the Dental Bd of the U.K. may complete the course in 3 yrs. and persons who hold a univ. degree in dent. obtained from an approved univ. in Gr. Britain, Ireland or Australia may be admitted to the fac. of dent. without further exam., and to final DDE exams. on completing 1 full session in the fac. of dent.

The BSc(Med) may be conferred for ap. work or investigation as a grad. degree and in certain circumstances for an extra yr.'s work as an undergrad. Similar regns. govern the BScD.

Attendance is required for all degree courses. Correspondence or evg. courses may not be used for credit toward a degree in the univ., except the general course (div. of extension). Only the BA degree through the general course (div. of extension) may be earned by attending summer day and winter evg. classes. The MA, in Engl. only and the MEd may be earned through summer sessions.

**HIGHER DEGREES** open to grads. in arts or sci. of any univ. or coll. approved by the sch. of grad. studies.

1 yr. after BA—BLS, BSW.

The MA, obtainable by approved course or grad. study extending over 2 yrs. or in the case of a BA in an hon. course, 1 yr., may be taken in anat., anthropol., appl. math., astronomy, biochem., bot., chem., classics, east. asiatic studies, econ., educn. theory, Engl., fine art, food chem., geog., geol. sci., Germanic lang. & lit., hist., household sci., Islamic studies, math., math. stats., med., biophys., microbiol., nr., eastern studies, nutrition, pathol. chem., pathol., pharmacol., philos., phys., physical, pol. sci., psychol., pub. admin., pub. health, romance lang. & lit., slave studies, social., zool.

The PhD, open to a grad. in arts or sci. or appl. sci. or dent. of this or another recog. univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued a master's course for 1 yr. A thesis embodying the result of an original investigation is required. The PhD may be taken in almost any sub. in which a master's degree is available and, in addition, in account. engin. & aerophys., chem. engin. & appl. chem., dent., elect. engin., mech. engin., metall. engin.

MBA, by approved course of grad. study extending over 1 to 2 yrs.

MS, 1 yr., after 3 yrs. grad. tig. in gen. surg. or a surgical specialty, open only to grads. in med. of a recog. univ.

Doctor of clin. sci. (DCISc), min. 4 yrs. following graduation from recog. med. sch. and 1 yr. hosp. internship. Initial 2-3 yrs. in basic sci. dept., final yr. in clin. dept.

MAsC may be obtained by a BASe or BSc grad. of this univ. or one who holds an equivalent degree

from some other univ. who pursue a course of advanced study in the fac. for 1 yr, presents a satisfactory thesis and passes such exams. as may be prescribed. The MAsC may be taken in aeronaut. engin. & aerophys., appl. geol., chem. engin., civil engin., electr. engin., geol. scs., mech. engin. metall., engin. Grad students wishing to carry out thesis work in some phase of nuclear engin. must register in one of the following dept.s: chem., electr., mech. or metall. engin.

MArch may be obtained by one who holds the degree of BArch or BAsC, or an equivalent degree, under the same conditions as the MAsC degree.

MScF is open to candidates who have obtained the BScF or equivalent degree. The course normally requires 2 yrs. if by exam., 1 yr. if by thesis.

MEd is open to candidates holding a univ. degree acceptable to Ont. Coll. of Educn. and a cert. as teacher valid in one of the provinces of Canada and issued after a regular course in an approved trg sch. or the equivalent of such cert. and course of trg. The degree is awarded to those who supplement their professional trg. by attendance, after successful experience, at a summer session, and complete work assigned. MEd is open to candidates who hold the BEd degree or equivalent standing. Requirement for the degree is completion of work assigned during attendance at 1 regular session or 3 summer sessions, although students of proven ability may obtain permission to write a thesis in place of the last 2 of the 6 units of instrum. ordinarily required. The EdD is open to holders of the MEd who qualify as candidates by their standing on selective tests, 1 regular session of course work and a major thesis, completed subsequently, are required.

MLS, 1-yr. course open to holders of BLS or equivalent.

MSW (master of social work), 1-yr. course open to grads. who have obtained the BSW degree or equivalent. The DSW is open to holders of the MSW.

MSA is open to grads. who have obtained the BSA degree or equivalent. Course normally requires 1-2 yrs.

MScD is open to grads. of the fac. of dent. of Univ. of Toronto or those with equivalent standing. It involves at least 2 yrs' work.

MScPhm (master of sci. in pharmacy), open to holders of BScPhm, or equivalent degree, who pursue advanced course of study and submit satisfactory thesis. (Normally a academic sessions).

MVSc or DVSc is open to grads. who have obtained DVM degree or equivalent. For DVSc candidate must have obtained DVM at least 3 yrs. previously.

MusDoc is open to a MusBac and MusM of this or another univ. who had received bachelor standing at least 5 yrs. prior to registration or master standing at least 2 yrs. prior to registration. Original compositions must be submitted with academic credentials.

MusM (master of music) may be obtained by those holding degree of MusBac or equivalent

after 2 academic sessions of advanced work; offered in musicology, music educn. and composition.

LLM may be obtained by an LLB grad. of the univ. or an approved univ., of at least 1 yr.'s standing, who passes the prescribed exams. and presents a satisfactory thesis. The DJur is open to candidates who have obtained LLM or equivalent. It requires 1 yr.'s attendance, exam. and a thesis.

The univ. publishes annually a *Sch. of Grad. Studies Calendar*. All communications on this subject must be addressed to the sch. of grad. studies.

HONORARY DOCTORES LLD, DSc, DLit, DBEng, DArch, MD, MusDoc, MA.

The univ. does not award EXTERNAL DOCTORES.

DIPLOMAS *For med. grads.* Bactriol., indust. health, pub. health, each 8 months' academic course plus 2 to 3 months' field work; psychiatry, med. radiol., each 2 calendar yrs.; anesthes., 3 calendar yrs. *Other dipls.* After 4-yr. high sch. course and exam. in performance: 3 yrs., music dipl. (music), licentiate dipl. (music), qualified applicants may enrol for both simultaneously. After Ontario grade XIII or equivalent: 1 yr., phys. & occupat. therapy, arts as appl. to med., 2 yrs., dental hyg. Open to grads. in forestry or biol.: 1 yr., resource management. Open to grads. in maths., sci., phys., engin., econm. and finance: 1 yr., computing & data processing. Open to univ. grads.: 2 yrs., speech pathol. & audiol.; 1 yr., vet. pub. health (DVPH), child study, town & regional planning, hosp. admin. (1 yr. acad. study, 1 yr. in a hosp.), nutrition. Open to grads. in dent.: dental pub. health (DDPH) (1 yr. acad. study plus field experience); dental oral surg. & anesthes., orthodontics, pedodontics & periodontics (all require 8 months' theoretical, 24 months' clin. instrum.).

CERTIFICATES. After Ontario grade XIII or equivalent: min. 3 yrs., evgt. course in business; open to phys. & occupat. therapy grads. with 2 yrs' experience: 2 yrs., teacher's cert. in phys. therapy, teacher's cert. in occupat. therapy; open to grad. nurses: 1 yr., dental nursing, hosp. nursing service (general or advanced), nursing educn. (general or advanced), pub. health nursing (general), pub. health nursing (admin.) (general or advanced); open to univ. grads. in arts or sci.: 1 yr., pub. health (CPH) with or without specialization in certain subjects.

RESEARCH. Facilities for postgrad. res. or advanced study in most depts. of the univ. Co-ordination of res. in earth scs. through inst. of earth scs. (E. 1960), and of res. in oceanog. and limnol. through Great Lakes inst. Details of recent res. activities included in annual *President's Report*.

TRAINING OF TEACHERS. Candidates for a cert. to teach in the secondary schs. of Ontario (sponsored by Ontario dept. of educn.) must hold an approved degree and then attend the Ont. Coll. of Educn. for 1 yr. A teacher of vocational subjects need not

hold a degree, but must have practical experience as a journeyman in the trade, and must attend the Ont. Coll. of Educn for 1 yr.

**Fees** Students proceeding to BA, BCom or BSc and enrolled in one of the federated arts colls of the univ. attend lectures of univ. profs. and lects in fac. of arts without payment of fees to the Univ. of Toronto except for library, lab supplies, exams and certain other incidentals (Fees for BCom, however, are not entirely paid to the fed coll., some portion is paid to the univ.) The coll. fees, which entitle students to attend degree courses in their respective colls, are \$364 p.a. Students proceeding to BA, BCom or BSc in Univ. Coll. pay all fees to Univ. of Toronto.

**Schedule of annual fees payable to the univ.**  
appl. sci. & engin., men \$654, women \$657; archt., men \$654, women \$629; arts (Univ. Coll.), men \$466 (BA), \$496 (BCom), \$466 (BSc), women \$447 (BA), \$477 (BCom), \$447 (BSc); arts (Victoria, Trinity and St. Michael's), men \$85 (BA), \$212 (BCom), \$95 (BSc), women \$72 (BA), \$209 (BCom), \$72 (BSc), child study, men \$334, women \$316; dent., men \$469 (pre-dent.), \$669 (dentnl), women \$448 (pre-dent.), \$636 (dentnl), instrument fees (dent.), addtl.; dent. surg., \$466, ext. (BA) \$85 per subject; fol., men \$571, women \$558; household sci., \$447; law, men \$498, women \$475; med., men \$465 (pre-med.), \$707 (1st-3rd yrs medical), \$717 50 (4th yr. medical), women \$444 (pre-med.), \$686 (1st-3rd yrs. medical), \$696 50 (4th yr. medical), art as applied to med., men \$459, women \$436; phys. & occupat. therapy - undergrad. course, \$455, teachers' course, \$316, nursing; degree course, \$370, course for grad. nurses, \$440; Ont. Coll. of Educn - teachers' courses, men \$353, women \$230; lib. sch. degree course, men \$209, women \$276; pharm., men \$409, women \$476; phys. & health educn., men \$409, women \$480; soc. work, men \$480, women \$466; music, artist dipl. and licentiate dipl., men \$452 (1st yr.), \$467 (2nd yr.), \$512 (3rd yr.), women \$434 (1st yr.), \$449 (2nd yr.), \$492 (3rd yr.); mus. educn., general mus., men \$407, women \$444 *Other diploma courses*: archt. (town & regional planning), men \$336, women \$318, med. dipl. in anesthesia \$500; dipl. in indust. health \$575; dipl. in med. radiol. \$220 (1st yr.), \$95 (2nd yr.), dipl. in psychiatry \$95 (1st yr.), \$140 (2nd yr.); dipl. in pub. health \$575; dipl. in speech pathol. & audiol., men \$446, women \$408, hyg., cert. in pub. health \$583, dipl. in bacteriol. \$583, dipl. in hosp. admin. \$668, dipl. in vet. pub. health \$583; dipl. in nutrition, \$583; dent. dipl. in dent. pub. health \$275, op. dipl. courses \$375 (1st yr.) \$373 (2nd yr.) *Other degree courses*: BScMed \$250, BScD \$250

**ACADEMIC YEAR** Winter session 2 terms, from end of 3rd wk. in Sept. to mid-May (Michaelmas, 13½ wks., Easter, 15 wks.). The univ. does not operate on a semester system.

**VACATION COURSES** Summer session, beginning of July to mid-Aug. sch. of grad. studies offers courses for credit toward degrees of MA in Engl., MED, EdD and MEd (See also 'University Extension', below)

**SCHOLARSHIPS** Fellowships, scholcs., prizes, bursaries and loans are available in the various colls and facs of the univ., the gift of the univ. and its divs., the prov. govt and other interested bodies.

Many of the scholcs., fellowships, etc., tenable in the sch. of grad. studies are open to grads. of Canadian univs., most of the admission scholcs. are open only to students who write the Ontario grade XIII deptl. exams, with a few awards open to students outside Ontario.

**UNIVERSITY PLACEMENT SERVICE**, 581 Spadina Ave., co-ordinates and complements the employment facilities provided through the various facs and depts. Offered to all grads. and undergrads. of the univ., it provides the means for the registration of those seeking specific full-time employment as well as supplying a centre to which employers may come and from which enquiries may be forwarded to the facs most concerned. Pt.-time and summer employment for undergrads. of the univ. are co-ordinated through this dept.

**RESIDENCES** University Coll. residence for men (183), room and bd. \$650 for session; residence and bd. for women (227), at least \$583 for session. Devonshire House residence for men (200), room only, at least \$250 for session; fac. of music residence for women (34), \$485 for session, Massey Coll. (see p. 381). For the residences of the federated univs., see separate univ. entries.

**UNIVERSITY NAVAL, ARMY AND AIR FORCE COMPONENTS** The armed forces' officers are on the campus, at 110 St. George St. Academic and military trg. is open to Canadian citizens or other British subjects resident in Canada, with the status of 'landed immigrants'. Under the Regular Officer Trg. Plan, undergrads. are paid a salary while they receive up to 4 yrs. of univ. educn. in most facs. Compulsory tuition, dues and fees are paid by the service. Release is optional 3 yrs. after graduation. Separate plans provide for med. students who may join in their 1st and profess. yr. and dent. students in their 1st profess. yr. All the above plans provide for practical trg. and one month of leave during the academic yr. Militia and reserve force trg. is open to undergrads. under other plans.

**STUDENT HEALTH SERVICE** The univ. health service offers a partial but comprehensive med. service for students, incl. a required med. exam. and chest X-ray for all new students and for certain other specified groups each yr. In addn., an out-patient clinic type of service is available to students throughout the acad. yr. for treatment and advice. Infirmary care is offered for minor illness. Extensive coverage is offered for athletic injuries, incl. an out-patient surg. and in-hosp.

treatment where required. These services are covered by a specific fee paid annually by each student at the univ.

**STUDENTS' ADMINISTRATIVE COUNCIL.** directs and administers student activities and publishes by means of a representative citize, which is the recog. official medium of communication between students and the bd. of governors. Membership consists of the pres. or an elected rep. of each student govt. of the colls., fees and schs. of the univ., and of ex-officio members without vote: a chairman, who is a grad. of the univ. of not more than 5 yrs' standing, a salaried officials (sec-treasurer and exec. asst.) who are grads of the univ. apptd. by the bd. after consultation with the students' council; a members of the fac. apptd. by the pres. of the univ., and the editors of the student newspaper and the yearbook.

**HART HOUSE,** the gift of the Massey Foundation in memory of H. Massey, affords all the facilities of a first-rate club for male undergrads. The activities of the house are administered by citizes, on which sit undergrads., grads and members of the fac. The Student Christian Movement has its headquarters in the house; it also contains a wing with the athletic assocn. office, gymnasium, swimming pool, etc., in which phys. trng and recreation for male students are carried on. Annual fee, \$18. Warden: J. McCaffrey. Tel. (hall porter). WA 3-6445.

**STUDENTS' UNIONS.** The Women's Union of Univ. Coll. provides a centre for undergrad women of the coll., particularly those who live off the campus, and is extensively used by both men and women student clubs, dramatic and discussion groups. It contains common-rooms, a lecture hall used for student plays, lectures, meetings and dances, and a large dining-hall where non-resident students and women staff members lunch. *Wykehouse, the Victoria College Students' Union* was opened in 1952. A centre for student social activities, it is located at 150 Charles St. W. and is readily accessible from the main coll. bldg., the library and the residences. The cafeteria and a

most attractive ground-floor common-room are reserved for women students. The other rooms are open to both men and women for meetings of clubs, societies and discussion groups.

**UNIVERSITY EXTENSION.** Courses leading to BA degree in evgs., summer session in arts subjects and in educn.; evg. course in business leading to cert., evg. tutorial non-credit classes in liberal arts and cultural subjects during winter session, evg. non-credit classes in subjects relating to business and industry during winter session; correspondence div. conducts courses for business and professional aims., short refresher courses for high sch. teachers, sec. workers, sch. of nursing for groups of grads and others in sp. fields, educnl. television courses, credit and non-credit, on local television channels.

**PUBLICATIONS.** These include *President's Report*, annual, *Calendar* of colls., fees, schs and insts., April-May, *Bulletins* of the Dept. of Univ. Extension; *Medical Bulletin*, Univ. of Toronto Press books and journals, including *Canadian Journal of Psychology*; *Canadian Journal of Mathematics*, Univ. of Toronto Quarterly, *Canadian Historical Review*, *Canadian Journal of Economic and Political Science*, *University of Toronto Law Journal*; *The Phoenix*, *Canadian Geographer*, *Canadian Journal of Linguistics*, *Canadian Journal of Theology*, etc. Alumni and students' magazines—*Varsity Graduate*, *University of Toronto Medical Journal*, *University of Toronto Faculty of Law Review*, *Kye Yake*, *Torontonian*, *Varsity*, etc.

**UNIVERSITY PRESS.** The Univ. of Toronto Press services the printing needs of the univ. and issues scholarly works, learned journals, serious non-fiction and reference works. It ranks 4th among univ. presses in N. America in no. of books publd. with an output of 90-100 books a yr., and is the leading Canadian publisher in no. of new titles issued annually. The Bookstore erected in 1957, a division of the Univ. of Toronto Press, sells books, pocket books, textbooks, stationery and supplies.

## THE YEAR 1961

**PRINCIPAL FINANCATIONS.** Govt. of Canada, natnl. health grants, \$1,000,017 for grants for res. trng and dent. equipment; Natnl. Res. Council, \$918,876 for res. grants; Med. Res. Council, \$388,833 for res. grants; Defence Res. Bd., \$435,301 for res. grants; Natnl. Fund for Univ. of Toronto and federated colls., \$2,133,000 for bldg. programme; Canada Council, \$1,806,250 for arts and music bldgs.; S. B. Playfair, \$999,281 for Helen Scott Playfair memorial fund for res.; estate of W. Gow, \$367,187 for gen. endowment; municipality of metropolitan Toronto, \$240,000 for bldgs. for schs. of business and soc. work; Ontario Heart Foundation, \$179,871 for res. grants; U.S. govt., \$172,890 for res. grants;

estate of Jessie M. Stewart, \$119,287 as endowment for John Alexander Stewart fellowship; Wellcome Trust, \$100,000 for addn. to Best Inst.; estate of J. E. McAllister, \$93,000 for student aid in appl. sci. and engin.; estate of Mary A. Wainwright, \$90,311 as endowment for schols.; estate of R. D. Bradshaw, \$85,365 as endowment for Bradshaw Ellington Trust for student aid in med.; estate of Helen E. Rogers, \$85,000 as endowment for schols. and bursaries; Atkinson Charitable Foundation, \$79,392 for bursaries and res.; Ontario Cancer Treatment & Res. Foundation, \$78,207 for res. grants; J. P. Bickell Foundation, \$70,358 for res. grants, student awards and Royal Ontario Museum;

Nat'l Sci. Foundation, \$97,007 for 100 grants, Canadian Arthritis & Rheumatism Soc., \$56,331 for 100 grants, Ontario Res. Foundation, \$52,040 for 100 grants, Nat'l Cancer Inst., \$43,665 for 100 grants; anon., \$40,877 for Hanna Memorial fund for support of dept. of med.; estate of J. Nicholson, \$39,208 for dictionary of Canadian biography; estate of Leah M. Samuel, \$33,854 for Royal Ontario Museum, div. of art & archaeol.; Retired Children's Trust Fund, \$30,300 for res.; estate of J. W. Billes, \$30,260 for student awards and med. res.

**MAJOR BUILDING DEVELOPMENTS** *Bldg. completed.* Sidney Smith hall to house Hq. of fac. of arts & sci. and 12 of its depts. (humanities and soc. sci.), law bldg. constructed as addn. to Flavelle house - archt. bldg. (major reconstruction of former dent. bldg.); *Approaching completion* music bldg.; pharma. bldg.; chem. bldg.; Massey Cell (see p. 381); built by Massey Foundation.

**RETIREMENTS** Prof. P. A. Petrie (educnl. methods, O.C.E.), Prof. C. A. Ashley (pol. econ.), Prof. E. H. Cragie (zool.), Assoc. Prof. Christine Kusog-Dunay (maths.), Asst. Prof. F. G. Ewens (mech. engin.), Nettie D. Pállos (nursing), Prof. N. E. McKinnon (hyg.), Assoc. Prof. L. T. Moynan (pol. econ.), Prof. Norma F. Walker (zool.), Assoc. Prof. Maria T. Washat (not as applied to med.), Prof. W. H. Brown (med.); Prof. A. C. Singleton (radiol.); Assoc. Prof. I. W. Johnston (obstet. & gynaeol.); Asst. Prof. A. D. T. Purdy (obstet. & gynaeol.).

**RELOCATIONS** N. H. Taylor (Italian & hispanic studies), A. H. Shephard (psychol.), E. H. Botterell (surg.), H. J. Barrie (pathol.), E. Gouhen (bot.), G. S. Watson (maths.); A. W. M. White (surg.); E. S. Gormson (B & B med. res.); N. L. Kiszock (forestry); H. R. McGinnis (hyg.).

**DEATHS** E. W. McIlenny (prof., hyg.); F. St. G. Spindlove (ap. lectr., art & archaeol.); S. Stykolt (assoc. prof., pol. econ.); R. C. Warren (prof., mech. engin.); J. H. Chang (asst. prof., nat'l sci.).

**HONORARY DEGREES** LL.D. - W. P. Dobson, formerly dir. of res., Hydro-Electric Power Comm.; J. K. Galbraith, American ambassador to India; F. G. Gardiner, chairman, Metro. Toronto council; H. Gaudetroy, dean, École Polytechnique, Montréal; Rev. G. P. Gilman, pres. and vice-chancellor, McM. P. G. Hoffman, managing dir., U.N. Special Funds; J. K. Macdonald, Lt.-Gov., prov. of Ontario; Gen. the Hon. A. G. L. McNaughten, chairman, Canadian section, International B. Commission; J. H. Parkin, founder, Nat'l Astronaut Ex.; C. B. Sessions, prof. emer., Tor.; J. B. Stirling, chan-

cellor, Qc.; Sir Hugh S. Taylor, pres., Woodrow Wilson Nat'l Fellowship Foundation; H. A. Thompson, prof., class archaeol., Inst. for Advanced Study, Princeton; J. Vaner, prof., of econ., Princeton.

## Statistics

### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	8,774	2543
Women	4,093	1273
Total	12,865	3816

Distribution by Faculties: *Appl. sci. & agric.*, 1421; *archt.*, 193; *arts*, 7905; *child study*, 23; *dent.*, 638; *educn.*, 935; *forestry*, 103; *household sci.*, 26; *hyg.*, 56; *law*, 162; *library*, 87; *med.*, 1495; *music*, 141; *nursing*, 358; *pharm.*, 391; *phys. & health educn.*, 153; *sci. tech.*, 95; *town & regional planning*, 22; *grad. studies*, 1700; *univ. extension (business)*, 691. Total 16,681.

*Included in the figures above are —*

Postgraduate students, 1706.

New admissions, 3663 (undergrads only).

Students from other countries, 951. (Countries from which largest numbers came: Commonwealth countries, 455; U.S.A., 312; Asia (excl. Commonwealth), 64; Europe (excl. U.K.), 62; Africa (excl. Commonwealth), 35).

*Excluded from the figures above are —*

Extension, 9705.

**DEGREES AWARDED (1960-61)** Ph.D., 81; Ed.D., 4; D.V.Sc., 1; M.S.D., 2; M.A., 230; M.Com., 5; M.B.A., 32; LL.M., 5; M.A.Sc., 60; M.Ed., 116; M.Sc.F., 4; Mus.M., 4; M.Sc.Pharm., 3; M.S.A., 30; M.V.Sc., 8; M.S.W., 19; M.L.S., 1; B.A., 1075; B.Sc., 119; B.Com., 63; M.D., 144; B.Sc.(Med.), 2; B.A.Sc., 438; B.Arch., 23; B.H.Sc., 35; B.Ed., 190; B.L.S., 79; B.Sc.F., 15; Mus.Bac., 24; D.D.S., 72; LL.B., 42; B.P.H.E., 52; B.S.W., 67; B.Sc.N., 43; B.Sc.Pharm., 65; B.S.A., 113; D.V.M., 49.

**DIPLOMAS AWARDED (1960-61)** *Asst. as appl. to med.*, 1; *asst. (mus.)*, 4; *artist & licensee (mus.)*, 1; *bachelor*, 11; *child study*, 14; *dent. hyg.*, 7; *dent. pub. health*, 4; *hosp. admin.*, 15; *indust. health*, 2; *licenseate (mus.)*, 3; *med. radiol.*, 5; *nutrition*, 4; *orthodontics*, 4; *periodontics*, 1; *phys. & occup. therapy*, 46; *psychiatry*, 17; *pub. health*, 24; *speech pathol. & audiol.*, 6; *town & regional planning*, 2.

**CERTIFICATES AWARDED (1960-61)** *Business*, 85; *hosp. nursing service*, 42; *nursing educn.*, 16; *pub. health nursing gen.*, 65; *pub. health nursing advanced*, 12.



*[Information compiled as at April 1962]***UNIVERSITY OF ST. MICHAEL'S COLLEGE**

Established 1958, previously established as St. Michael's College, 1852  
*(Federated with the University of Toronto)*

Postal Address - Toronto 5, Ontario, Canada

Telephone WA 1-3151

CHANCELLOR—H. G. P. F. FODOR, DD

PRESIDENT—Rev. J. M. KELLY, MA PhD

VICE-PRESIDENT—Rev. G. D. O'GORMAN, MA PhD

REGISTRAR—Rev. B. HENNESSY, MA

PROFESSOR, PONTIFICAL INSTITUTE OF MEDIEVAL STUDIES—Rev. L. K. SHOOK, MA PhD

DEAN, FACULTY OF THEOLOGY—Rev. W. H. PRINCIPLE, MA MSL

LIBRARIAN—Rev. B. J. BLACK, BA MLS

BURGER—Rev. J. S. KELLY, BA

**TEACHING STAFF****ARTS**

See names marked (M) in the consolidated list under Toronto Univ. above

**THEOLOGY**

<b>Canon Law</b>		<b>History of Theology</b>	
Crocker, Rev. R. W., MA JCL	Prof.	Haring, Rev. N., STD MSD	Prof.
Orina, Rev. F. A., BA JCD	Prof.		
<b>Dogmatic Theology</b>		<b>Modern and Contemporary Theology</b>	
Misoney, Rev. D. A., MA STD	Prof.	Belyea, Rev. D. E., MA STD	Prof.
Principle, Rev. W. H., MA MSL	Prof.		
<b>Ecclesiastical History</b>		<b>Moral Theology</b>	
Sheehy, Rev. M. M., MA MSL	Prof.	Hughes, Rev. W. D., MA STL STD	Prof.
		Malley, Rev. E. R., MA STD	Prof.
<b>Ecumenical Theology</b>		<b>Scripture</b>	
Baum, Rev. G. G., MA STD	Prof.	Fonestall, Rev. J. T., BA STL SSL	Prof.

**GENERAL INFORMATION**

St. Michael's Coll. was establd. in 1852 by the Rt. Rev. Armand François, Comte de Charbonnel, second bishop of Toronto, and placed under the direction of the Basilian Fathers. It was incorporated as an instn. of higher learning by the statutes of the province of Canada in 1855. In 1881 St. Michael's was affiliated, by statute of the univ. senate, to the Univ. of Toronto. In the

univ. acts of 1887 and 1904 it was described as a federated theol. coll., but continued independently as a classical coll. for Catholic laymen. When the Univ. of Toronto was reorganized by the Univ. Act of 1906, St. Michael's entered the new univ. federation as an arts coll., preparing students for univ. degrees. In 1954 St. Michael's obtained independent env. establishment for its theol. sch.

and in 1958 was constituted by the legislature of the province of Ontario as a univ. in federation with the Univ. of Toronto.

St. Michael's, in conjunction with the Univ. of Toronto, offers full programmes in arts, sci. and comm. at undergrad level and, independently, in theol. and related studies at postgrad level. The Inst. of Medieval Studies is located on the same campus.

**CONSTITUTION.** The univ. is under the management and admin. of the collegium. The senate has power in all matters of a strictly educational nature not assigned to another body or officer. The pres. is charged with the general oversight of the univ. as a whole.

**UNIVERSITY PRESIDENT.** The univ. is situated on Queen's Park Crescent on a site of 13 acres adjoining the campus of the Univ. of Toronto.

**LIBRARY.** 70,000 vols.

**ADMISSION REQUIREMENTS.** Arts: as for Univ. of Toronto (see Appendix III).

**FIRST DEGREES** (of Univ. of Toronto). BA, BCom, BSc.

**HIGHER DEGREES.** *Awarded by Univ. of St. Michael's Coll.* At Pontifical Inst. of Medieval Studies: MSc (licentiate in medieval studies),

3 yrs. from BA; MSD (doctorate in medieval studies), 2 yrs. from licentiate. Specialization offered in hist. of canon law, hist. of Christian worship, Latin lit., medieval hist., philos., theol., vernacular lit.

**Fees of theol.: STB** (bachelor in sacred theol.), 3 yrs. from BA. MA (theology).

*Awarded by Univ. of Toronto.* MA, PhD.

**FEES.** Arts: tuition fees are the same as those of the Univ. of Toronto (see p. 385).

**ACADEMIC YEAR.** As for Univ. of Toronto (see p. 385).

**SCHOLARSHIPS.** Admission schol., other schol., as for Univ. of Toronto (see p. 385).

**STUDENT RESIDENCES.** Residence facilities provided for Catholic profess. students registered in the Univ. of Toronto, St. Joseph's Coll. and Loretto Coll. provide residence facilities for women students registered in the Univ. of St. Michael's Coll. Accommod. for 415 men and, at St. Joseph's Coll. and Loretto Coll., for 350 women. Fees for bd. and semi-private room, \$110 per month.

**STUDENT SERVICES** incl. a collegiate church and chapel, a dining-hall and a student co-operative cafeteria.

## THE YEAR 1961

**CENTRE OF ECUMENICAL STUDIES** establd.

*Included in the figures above are —*

### Statistics

**STUDENT NUMBERS, 1961-62**

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	773	5
Women	472	5
Total	1245	10

Postgraduate students, 97

New admissions, 482

Students from other countries, 268 (Countries from which largest numbers came: U.S.A., 231; W. Indies Fed., 17; Hong Kong, 8)

**DEGREES AWARDED (1961-62)** *Acts* (conferred by Univ. of Toronto): BA, 152; BA hon., 55

[Information compiled as at June 1962]

## UNIVERSITY OF TRINITY COLLEGE

Founded 1851

(Federated with the University of Toronto)

Postal Address: Toronto 5, Ontario, Canada  
Cables and Telegrams: Trinity College, Toronto  
Telephone: WA 2-8411

CHANCELLOR—G. B. STRATHY, QC, Hon. LL.D.

VICE-CHANCELLOR AND PROVOST—Rev. D. R. G. OWEN, MA O.A.S., BA PhD. Tur., Hon. DD St. John's (Adalt), K.C.N.S. & Wycliffe (Tor.)

CANADA

Vice-PROVOST—G. EDISON, AM Col, PhD Tor.

REGISTRAR AND DEAN OF MEN STUDENTS—A. J. EARP, BA Tor, MA Camb, MLet Camb.

DEAN OF WOMEN STUDENTS AND PRINCIPAL OF ST. HILDA'S COLLEGE—KATHARINE M. DABBOCHI, MA Camb, BD Lond.

LIBRARIAN—ELIZABETH SAUNDERS, BA BLS Tor.

BURSAR—G. O. SHEPHERD, BComm Tor.

## TEACHING STAFF

### ARTS

See names marked (T) in the consolidated list under Toronto Univ. above.

### DIVINITY

[ ] = Part-Time

<b>Christian Education</b>		<b>Moral and Pastoral Theology</b>
Scott, Rev G C C, MA Tor, DD	[Lect]	Fielding, Rev C R., BA K.C.N.S., STD General Theol Sem (on leave) Prof., Dir. of Field Work
<b>Church Music</b>		
Sidgwick, J R L, MA MusB Camb, FRGO	[Lect]	<b>New Testament and New Testament Greek</b>
<b>Dogmatic Theology</b>		Benn, Rev F. W., BA Tor., PhD Chic Prof
Fairweather, Rev E. R., BA McG., MA Tor., ThD U.T.S.(N.Y.)	Assoc Prof	<b>Old Testament, Hebrew and Septuagint Greek</b>
<b>Ecclesiastical History and Liturgics</b>		Newby, Rev. M. T., MA Tor. Prof.
Smith, Rev. W. L., MA Oxon. & Tor	Assoc. Prof	Wolverton, Rev W I, MA PhD Chic
<b>History and Philosophy of Religion</b>		Aust Prof
Edison, G., AM Col., PhD Tor.	Prof	
Owen, Rev D R G., MA Oxon., BA PhD Tor	Lectr	
<b>Homiletics</b>		
Buchner, Rev H W, BA Alia, LTh	Assoc Prof	

### TUTORS

Dabochi, Katharine M., MA Camb,  
BD Lond.  
Fick, Rev M K, MA Tor., STB General  
Theol Sem  
Russell, Rev C A, BA Tor, STB

## GENERAL INFORMATION

The Univ. of Trinity Coll was founded in 1851 by John Strachan, first bishop of Toronto, and received a royal charter in 1852. Degrees were conferred in arts, div, med and music until Trinity Coll federated with the Univ. of Toronto in 1904 and restricted its work to the two facs of arts and div. As an arts coll it forms an integral part of the fac of arts of the Univ. of Toronto and all the courses of that fac. are open to its students, as a theol. coll. Trinity maintains its own fac. of div. and confers the titles and degrees noted below.

**CONSTITUTION.** The coll is governed by the corporation of Trinity Coll and its executive ctee.

INCOME (1960-61) \$381,690

**FACULTIES AND DEPARTS.** Arts, Prof C Lewis (German), div, Rev. H. W. Buchner (homiletics).

**UNIVERSITY FACULTY.** The coll bldg. and men's residence form a quadrangle on Huron Ave., the academic bldg. adjacent, St. Hilda's Coll., the residence for women, is near by. All are within the grounds of the Univ. of Toronto.

**LIBRARY.** 47,500 vols.

**ADMISSION REQUIREMENTS.** Arts: as for Univ. of Toronto (see Appendix III). Div.: 1st degree from a recog. univ.

**FINAL DEGREES** (of Univ. of Toronto). 3 yrs. from 1st degree—BA gen.; 4 yrs. from 2nd degree—BA hon., BComm. Instruction is given by Trinity in classics, Engl., ethics, French, German, oriental

hist., oriental langs., relig. knowledge and in 1st yr hon pol sci & econ., in all other subs., whether in gen. or hon. courses, instruction is given by staff of the Univ. of Toronto.

**HIGHER DEGREES** (of Univ. of Trinity Coll.) 3 yrs after BA (or equivalent)—LTh, STB Trinity also confers the degrees of MTh and ThD (in conjunction with the Toronto Grad Sch. of Theological Studies), and (on the recommendation of the bd of examiners of the Anglican Church of Canada) the degree of BD.

**HONORARY DEGREES** (of Univ. of Trinity Coll.) DLittS, DD.

**RESIDENCE** For men (fees, \$720) Trinity Coll., 175 students For women (fees, \$680) St Hilda's Coll., 120 students.

**FEES** Arts: tuition fees are the same as those of the Univ. of Toronto (see p. 385); incidental coll. fees, \$34.50 Div. tuition, \$212.50.

**ACADEMIC YEAR** As for Univ. of Toronto (see p. 385).

**SCHOLARSHIPS.** Eleven open admission scholarships, offering free tuition, awarded on basis of Ontario grade XIII, or equivalent, 2 postgrad. fellowships of \$500 for study of humanities in grad. sch. of Univ. of Toronto.

**GRADUATE ASSOCIATION** Convocation of Trinity Coll.; executive sec., G. O. Shepherd, BCom.

**STUDENT COUNCIL** Bd of stewards (men), St Hilda's Coll. meeting (women).

**PUBLICATIONS.** *Calendars* of facts of arts and div. annually, *Trinity Univ. Review*, 6 times a yr., *A History of the University of Trinity College, 1852-1952* Ed. by T. A. Reed. (Univ. of Toronto, 1952).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS** Estate of G. Larkin, in excess of \$4,000,000; estate of G. Campbell, \$400,000.

**HONORARY DEGREES** DD—Rev. A. R. Vidler, dean, King's Coll., Camb.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	377	16
Women	314	8
Total	711	24

**Distribution by Faculties** Arts, 681; div., 54. Total: 735.

*Included in the figures above are—*

Postgraduate students (div.), 15.  
New admissions, 236.  
Students from other countries, 35 (Countries from which largest numbers came: U.K., 14; W. Indies Fed., 9).

**DEGREES AWARDED (1960-61).** Arts and comm. (conferred by Univ. of Toronto): BA, 109; BCom, 14. Div. (conferred by Univ. of Trinity Coll.): STB, 7; MTh, 1; BD, 1.

[Information compiled as at April 1962]

## VICTORIA UNIVERSITY

Incorporated 1856

(Federated with the University of Toronto)

Postal Address: Queen's Park, Toronto 5, Ontario, Canada

Cables and Telegrams: Viccollege, Toronto

Telephone: 924-7101

**PRESIDENT AND VICE-CHANCELLOR**—Rev. A. B. B. MOORE, BA MCG, Hon. DD Mont. & Trin. Coll. Tor., Hon. LLD Souk. & McM.

**PRINCIPAL, VICTORIA COLLEGE**—H. N. FRYE, BA Trin., MA Oxon., Hon. DD United Coll. (Mont.), Hon. LLD Can., Hon. DLitt New Br., FRSCan.

CANADA

PRINCIPAL, EMMAUEL COLLEGE—Rev. K. H. COUSLAND, MC, MA Oxon., Hon. DD Mont. & Knox (Tor.)

REGISTERAR—F. A. HARE, MA Tor.

LIBRARIAN—MARGARET V. RAY, BA Tor.

## TEACHING STAFF

### ARTS (Victoria College)

See names marked (V) in the consolidated list under Toronto Univ. above

### THEOLOGY (Emmanuel College)

<b>Christian Education</b>	<b>Old Testament Literature and Exegesis</b>
Guthrie, Rev. J. R., MA BD BEd PhD Edin., STM U.T.S. (N.Y.) Prof.	Dobbie, Rev. R., MA BD Glas., MTh Lond. Prof.
<b>Church History</b>	<b>Philosophy of Religion and Christian Ethics</b>
Cousland, Rev. K. H., MC, MA Oxon., Hon. DD Mont. & Knox (Tor.) Prof.	Joy, Rev. C. D., MA Tor., PhD Edin., BD Assoc. Prof.
<b>Homiletics and Pastoral Theology</b>	<b>Public Speaking</b>
Boyer, Rev. G. W., BA BD Qu., STM U.T.S. (N.Y.) Asst. Prof.	McMullen, Rev. G. A., BA Tor. Prof.
<b>New Testament Literature and Exegesis</b>	<b>Public Worship</b>
Blackman, Rev. E. C., MA BD Camb. Prof.	Kelly, Rev. W. M., MA BD Glas., STM U.T.S. (N.Y.) Prof.
Osborne, Rev. R. E., BA StrG Wisc., BD STM McG. Asst. Prof.	<b>Systematic Theology</b>
	Fennell, Rev. W. O., BA Tor., STM U.T.S. (N.Y.) Prof.

## ADMINISTRATIVE AND OTHER STAFF

Bursar: F. C. Stokes, MA Tor., Dean of Women: Jessie Macpherson, MA PhD Tor.; Sr. Tutor: E. G. Clarke, MA Tor., BD;

Comptroller: K. M. Dymally, BCom Tor.; Supt. of Bldgs. and Grounds: J. B. Scott.

## GENERAL INFORMATION

Originally establd. as the Upper Canada Academy at Cobourg, Ont., in 1836 by charter of King William IV. Granted degree-conferring power in 1841. Facs. of med., sci. and law were contd. along with arts and theol. until 1892, when Victoria, having entered into federation with the Univ. of Toronto, moved to Toronto and agreed to hold in abeyance its power to grant degrees except in theol., arts and sci. students at Victoria receive their degrees from the Univ. of Toronto. In 1928, by act of the legislature of the province of Ontario, Victoria received an amended charter by which it continues in federation with the Univ. of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist and Presbyterian churches in Canada), and includes within itself, under one hd. of regents and one senate, two colls.,

Victoria Coll. in arts and Emmanuel Coll. in theol., the latter formed by the union of the Victoria Univ. fac. of theol. with Union Theological Coll.

UNIVERSITY CAMPUS consists of 15 acres of parkland, academic and residential bldgs. adjacent to Queen's Park and the Univ. of Toronto campus. Facilities include an arts bldg., theol. bldg., library, men's and women's residences, student union, playing field, gymnasium.

LIBRARY 117,000 vols. Special features—Canadian verse and Tennysonianism (C. C. James's collections), Canadian church hist., Erasmus.

ADMISSION REQUIREMENTS Victoria Coll.: as for fac. of arts & sci. of Univ. of Tor. (see Appendix III) Emmanuel Coll.: 1st degree from a recog. univ.

FIRST DEGREES (of Univ. of Toronto). 3 yrs. from st. matric—BA gen., BSc (gen. sci.), 4 yrs. from st. matric—BA hon., BSc hon., BCom. Instrucn. is given by Victoria Coll. in Engl., ethics, French, German, Greek, Greek & Roman hist., Latin, nr. eastern hist., in eastern langs., religious knowledge, in all other subjs., whether in gen. or hon. courses, instrucn. is given by staff of the Univ. of Toronto.

HIGHER DEGREES (of Victoria Univ.). BD, 3 yrs. subsequent to graduation in arts; ThM, full-time 4 yrs. after BD, pt.-time max. of 6 yrs. after registration for the degree; ThD, full-time at least 2 yrs. attendance after BD, pt.-time max. of 6 yrs. after registration for the degree. BRE (bachelor of religious education), 2 yrs. after BA or equivalent degree or 3 yrs. after BD.

HONORARY DEGREES (of Victoria Univ.). DD, DLittS.

DIPLOMAS (of Emmanuel Coll.). Theol., 3 yrs. after 3 or 4 yrs. from st. matric. in arts.

FEES: Arts; tuition, \$364 p.a.; comm.: \$257 p.a., incidental fees, approx. \$90-\$110 p.a., resi-

dence, \$575-\$620 p.a. Theol.: candidates for United Church ministry are not charged tuition fees for the ordinary course, BD, candidates for United Church ministry, \$35; BRE, full-time professional workers in United Church, \$25, others \$200, ThM, \$250, ThD, \$350.

ACADEMIC YEAR. As for Univ. of Toronto (see p. 385).

The Univ. does not offer any 'open' ENTRANCE OR POSTGRADUATE AWARDS.

RESIDENCE. Victoria Univ. men's residences, 89 Charles St. West (264 men); Victoria Univ. women's residences, 95 Queen's Park Crescent and 140 Christie St. West (255 women). See also 'Fees', above.

PUBLICATIONS. Emmanuel Coll. *Calendar* (July), *Victoria Coll. Bulletin* (April); *Victoria Reports* (twice yearly), *Acta Victoriana*, a students' monthly, *A History of Victoria University*. C. B. Sissons. (Univ. of Toronto, 1953).

BOOK BUREAU (coll. bookstore)

## THE YEAR 1961

PRINCIPAL BENEFITFACTORS. Total value of all benefitactions received: \$825,589.

HONORARY DEGREES. DD—Rev. A. R. Cragg, minister, Edmonton; Rev. C. L. Lewis, minister, Windsor; Rev. J. W. E. Newbery, principal, Huntingdon Coll., Sudbury.

### Statistics

#### SYSTEM NUMBERS, 1961-62

	Full-Time	Part-Time
Men	1975	64
Women	897	0
Total	1972	73

Distribution by Faculties. Arts & sci., 1850, ThM, 195. Total: 2045.

Included in the figures above are —

Postgraduate students, 70  
New admissions, 762.  
Students from other countries, 29 (Countries from which largest numbers came: W. Indies, Fed., 8; U.S.A., 6).

DEGREES AWARDED (1960-61). Theol. (conferred by Victoria Univ.): BD, 24; BRE, 5; ThM, 3. ThD, 3. Arts & sci., and comm. (conferred by Univ. of Toronto): BA and BSc, 239, BCom, 25.

DIPLOMAS (1960-61). Theol. (awarded by Emmanuel Coll.) 22.



Land, N. C., MS T U <i>Danvers</i> , PhD Ill	Assoc Prof
Sherbourne, A. N., MS <i>Lakgh</i> , MA PhD Camb	Assoc Prof
Dryman, W. R., MS PhD <i>Tasur</i>	Asst Prof
Fisher, C. P., MASC Tw	Asst Prof
McLaughlin, W. A., BEng Sask, MS Purdue (on leave)	Asst Prof
Scott, J. D., BSc Qw, MS Ill	Asst Prof
Brookes, E. M., BSc Duke	Sp Lectr
Cummins, A. T., BSc Qu	Lectr
Green, R., BSc(Eng) Lond, MS Qu	Lectr
Hendy, V. K., BSc Calc, BSc(Eng) Lond, MSc Qu	Lectr
Meincke, P. H., BSc Mont	Lectr
White, O. L., BSc Malt	(on leave) Lectr
+ Teaching Fellows	

**Engineering, Electrical**

Anthea, R. G., MASC Tar	Prof, Actg, Chairman of Dept
Kesavan, H. K., MS Ill, PhD Mich State	Prof
Wei, L. Y., MS PhD Ill	Assoc Prof
Chow, Y. B., BS Tamsanong C, MS Rhode I (on leave)	Asst Prof
Dufault, G. J., BA Ont, BSc Cal	Asst Prof
Keeler, J. S., BASC Tw	Asst Prof
Meikle, W. N., BASC Tw	Asst Prof
Ellis, J. B., BASC Tar, DIC, MSc(Eng) Lond	Lectr
McGee, W. F., MA Tar	Lectr
Qureshi, A. H., BA Pers	Lectr
Dring, T. H., <i>Aschew</i>	Lectr
Roe, P. H. O., BASC Tar, MSc	Lectr
Van Heeswyk, R. G., Dupling T.H., <i>Delft</i>	Lectr
Vetter, W. J., BASC Tar, MASC	Lectr
+ Teaching Fellows	

**Engineering, Mechanical**

Fallis, W. B., MASC PhD Tar	Prof, Actg, Chairman of Dept
Alpy, S. A., MS Dring <i>Berl</i>	Prof
Church, J. W., BSc Qu, MASC Tw	Assoc Prof
Bruneau, A. A., BASC Tw, PhD Lond	Asst Prof
Brzustowski, T. A., AM PhD Prin	Asst Prof
Davies, R. M., BASC Tar, MSc Stru (on leave)	Asst Prof
LeFevre, A. R., MASC Tw	(on leave) Asst Prof
McPherson, G. D., MSc Ont	(on leave) Asst Prof
Nicoll, W. B., SM M J T, ME Stas (on leave)	Asst Prof
Pennic, G. F., BASC Br. Col, MASC Tw	Asst Prof
Prokaski, K. R., Dupling Polish Univ (Lond)	Asst Prof
Soules, G. N., BASC Tar	Asst Prof
Fleming, G. K., BEng N S T C, MASC Br Col	Lectr

**English**

Thomas, W. K., MA PhD Tw	Prof, Chairman of Dept
--------------------------	------------------------

McCutchan, J. W., AM PhD <i>Vagina</i>	Prof
Cummings, L. A., MA <i>Minnouri</i> , PhD Wash	Asst. Prof. (J)
Martin, W. R., MA Natal	Asst Prof.
Carscallen, J., BA Tar, BLitt Oson.	Lectr
Dust, A. I., MA PhD Ill	Lectr
MacQuarrie, A. M., BA Acad, MA Tw	Lectr
Scott, J. S., MA Br Col	Lectr

**French and Spanish, see also Romance  
Languages**

McKegney, J. C., MA Oregon, PhD Wash.	Assoc Prof., Actg, Chairman of Dept
Walter, Mrs Dorothea, MA Qu	Assoc Prof.
Robertson, H. S., AM PhD Indiana	Asst Prof.
Skryme, R., BA Brst	Lectr

**Geography**

Krueger, R. R., MA IV Ont., PhD Indiana	Assoc Prof., Chairman of Dept
Dunn, A., MA Clark, PhD Mich	Asst Prof
Hooton, J. T., BA Wheaton, MA Northwest n	Asst. Prof.
Officer, E. R., BA Br. Col, MA Pers.	Asst. Prof
Pearson, N., BA Durh	Sp. Lectr.

**German and Russian**

Dyck, J. W., MA <i>Mennou</i> , PhD Mich.	Prof., Chairman of Dept.
Hoer, E., MA Br Col, PhD Mich	Asst Prof.
Levitsky, I. A., MA <i>Bugnia</i> , PhD Duke	Asst Prof
Hoefert-Wewers, S. P., MA Tar.	Lectr

**History**

Cannell, P. G., ED, MA PhD Tar.	Prof., Chairman of Dept.
Arnold, Rev J. L., MA IV Ont	Assoc Prof. (J)
MacKirdy, K. A., MA Br Col, PhD Tar	Assoc Prof
Ross, A. W., MA Wales	Asst. Prof. (R)
Wynne, R. E., Drjar <i>Freeman</i> , ED MA Alia.	Asst. Prof.
O'Connor, Rev J. S., BA W. Ont	Lectr (J)
Rolph, Mrs Ruth M., BA To	Lectr

**Mathematics**

Stanton, R. G., MA PhD Tw	Prof., Chairman of Dept
Beiman, G., MA PhD Tw.	Prof.
Fryer, K. D., MA PhD Tw.	Prof.
Spriett, D. A., MA PhD Tw	Prof
Tutte, W. T., MSc MA PhD Camb, FRSCan	Prof.
Davis, H. F., SM PhD M I T.	Assoc Prof.
McKernan, M. A., MA <i>Loyola</i> , PhD Illinois Tech Inst	Assoc Prof.
Semple, R. J., MA Tw, PhD Prin	Assoc Prof
Sugfried, Rev. C. L., BA W Ont, MSc Mich	Assoc Prof. (J)
Wentham, D. G., MA PhD Tw.	Assoc Prof.
Beaumont, C. F. A., BA <i>McM</i> , MA Tar.	Asst. Prof.



Graham, J. W., MA *Tor*  
 Kerr-Lawson, A., BA *Tor*, SM *Chic*  
 Cowan, D. D., BAsC *Tor*, MSc  
 Lawson, J. D., BAsC *Tor*, MSc  
 Mullen, R. C., BA *W Ont*, MA  
 McIntosh, H. I., BA *Tor*, FSA  
 Reed, R. B., BAsC *Tor*, MSc  
 Balkauskas, K., BAsC *Tor*, MSc

Asst. Prof  
 Asst. Prof  
 Lectr  
 Lectr  
 Lectr  
 Lectr  
 Lectr

### Philosophy

Burgener, R. J. C., MA PhD *Tor*  
 Assoc. Prof., Actg. Chairman of Dept  
 Hergott, Rev. C. A., MA *St Louis*,  
 STD *Grog*  
 Adamczewski, Z., AM *Col*, PhD *Hav*  
 Armow, L., BA *Br Col*, PhD *Iand*  
 Sheridan, Rev. P. B., MA *W Ont*,  
 JCD *Grog*, PhD *Fla*

Prof. (J)  
 Assoc. Prof  
 Asst. Prof  
 Asst. Prof (J)

### Physics

Cowan, J. A., MA PhD *Tor*  
 Prof., Chairman of Dept  
 Reesor, G. E., MA *McM*, PhD *Tor*  
 Aziz, R. A., MA PhD *Tor*  
 Boswell, F. W., MA PhD *Tor*  
 Dagg, I. R., MS *Penn State*, PhD *Tor*  
 Snyder, R. A., BSc PhD *W Ont*  
 Brodie, D. E., MSc PhD *McM*  
 Ellenton, H. K., BSc *W Ont*, MA *Tor*  
 Isenor, N. R., MSc PhD *McM*  
 Lum, C. C., MA *Nebraska*, PhD *Tor*  
 Ord, J. L., MS PhD *Ill*  
 Rochester, M. G., MA *Tor*, PhD *Utah*  
 Woolner, K. A., BSc *Land*  
 3 Teaching Fellows, 1 Lab. Asst.

Assoc. Prof.  
 Assoc. Prof  
 Assoc. Prof  
 Assoc. Prof  
 Assoc. Prof  
 Asst. Prof  
 Asst. Prof  
 Asst. Prof  
 Asst. Prof  
 Asst. Prof  
 Asst. Prof

### Political Science

Qualter, T. H., BA *N Z*, PhD *Leed*  
 Assoc. Prof

### Psychology

Benton, W. H., MA *Sask*, PhD *McG*  
 Prof., Actg. Chairman of Dept  
 Banks, R. K., MA PhD *Tor*  
 Vogel Sprout, Mrs. Muriel D., MA  
 PhD *Tor*

Lectr  
 Lectr

### Religious Knowledge

Mayet, Rev. W. B., PhD STD *Grog*  
 McKibben, Rev. J. T., BA *W Ont*,  
 LTh *Hav*

Asst. Prof. (J)  
 Lectr. (R)

### Romance Languages, see also French and Spanish

Kieffer, Rev. M. I., MA *McG*,  
 JCD *Grog*  
 Finn, Rev. J. R., MA *Tor*, PhD *Ill*  
 Rakston, Rev. Z. T., MA *Laval*,  
 PhD *C.U.A.*

Prof. (J)  
 Assoc. Prof. (J)  
 Asst. Prof. (J)

### Russian, see German and Russian

### Sociology

Hugh, N. H., MS PhD *Corn*  
 Prof., Chairman of Dept  
 Scott, W. G., BA *W Ont*, MA *Tor*  
 Brown, Rev. W. I., BA *W Ont*

Asst. Prof  
 Lectr. (J)

### Spanish, see French and Spanish

## ADMINISTRATIVE AND OTHER STAFF

Business Manager: A. B. Gellatly, BA *W Ont*,  
 Dir. of Univ. Extension and Adult Educ.: G.  
 Campbell, BA *Br Col*, MA *Tor*, Dir. of Ath-  
 letics: C. A. W. Totzke, BA *W Ont*, Dir. of  
 Computing Centre: J. W. Graham, MA *Tor*,  
 Dir. of Co-ordination and Placement: A. S.  
 Barber, Dir. of Information Services: J. D.

Adams, BA *Tor*, Dir. of Music: P. J. Beag,  
 Devel. Manager: J. O. Hemphill, Supt. of  
 Bldgs. and Grounds: E. M. Brookes, BSc *Dalh*,  
 Actg. Dean of Women: Mrs. Dorothea Walzer,  
 MA *Qu*, Asst. Registrar: D. P. Robertson,  
 BComm *Manit* (Admissions), K. R. Hymmen,  
 MAsC *Tor* (Records and Student Aid)

## FEDERATED COLLEGE

St. Joseph's College, Waterloo, Ont. R.C.  
 church-related liberal arts coll., affiliated with  
 Univ. of Ottawa 1947, entered into fed. with

Univ. of Waterloo 1960. Offers undergrad pro-  
 grammes in arts. Pres.: Rev. C. L. Siegfried.

## AFFILIATED COLLEGES

CONRAD GIBBEL COLLEGE, Waterloo, Ont.  
 Monastic coll., affiliated with Univ. 1961.  
 Principal

RENNISON COLLEGE, Waterloo, Ont. Anglican  
 liberal arts coll. Incorporated 1950, affiliated

with Univ. 1960. Co-educational and residential.  
 Principal: A. W. Rees

St. Paul's College, Waterloo, Ont. United  
 Church residential coll. and student centre,  
 affiliated with Univ. 1961. Principal: ..

## GENERAL INFORMATION

Incorporated as a non-denominational instn offering undergrad. and grad courses in arts, engin, and sci. Classes commenced in July 1957 with the intro of the co-operative engin programme. In March 1959 a private bill was approved by the legislative assembly of the province of Ontario incorporating the Univ of Waterloo as a degree-granting instn. The univ became a member of the Natl Conference of Canadian Univs and Colls in June 1961, and of the Assoc of Univs of the British Commonwealth in Nov 1961.

Location Waterloo, Ont (pop 21,665), twin city of Kitchener (pop 74,846)

CONSTITUTION Under the terms of the Univ of Waterloo act, the univ is governed by a bd of govrs., which has jurisdiction over the business affairs of the univ, and the senate, which is responsible for the academic policy. The bd of govrs consists of 36 members, incl the chancellor, the poes, the mayors of Waterloo and Kitchener, and the warden of Waterloo county, and a membr apptd by the lt-govr-in-council. The remaining members are apptd by the bd. The senate consists of the chancellor, vice-chancellor and vice-pres of the univ, the principal or hd of each federated and affiliated coll, the dean of each fac or sch. of the univ, the librarian, the chairman of the bd of govrs, the registrar, the dir of extension, 4 reps. of the fac of arts of each federated coll, 4 reps of the sci fac, and 4 of the engin fac. 2 reps of each affiliated coll, the principals of 6 secondary schs, 6 reps of the univ alumni, 3 of the alumni of each federated coll and 2 of the alumni of each affiliated coll.

INCOME (1961-62) Total income (operational), \$1,645,575 (tuition and other student fees, 36.8 per cent; govt grants, 56.5 per cent (federal, 14.8 per cent; prov, 36.5 per cent; municipal, 5.3 per cent), other sources, 6.7 per cent)

FACULTIES AND DEANS See p. 394

UNIVERSITY PHYSICIAN Campus of 230 acres, in N.W. section of Waterloo, includes chem-chem engin., phys. and maths, engin., and arts bldgs., all completely air-conditioned. Athletic facilities are located at Seagram Stadium, and include a fully equipped gymnasium, a quarter-mile track, and a football field. Additional teaching bldgs., residences, an auditorium and a student union bldg are to be completed within the next few yrs. and a \$1,500,000 libr. bldg. will be opened in 1964. St. Jerome's Coll has 3 bldgs. on the univ. campus. teaching and admin., a men's residence with accomm. for 100, and a women's residence with accomm. for 55 under supervision of ach. sisters of Notre Dame. Remson Coll has on univ. campus an admin. bldg., a men's residence and a women's residence, each with accomm. for 40 students.

LIBRARY 40,000 vols., 18,000 of which are in

sci and engin., subscribes to 1000 current journals

ADMISSION See Appendix III

FIRST DEGREES 3 yrs from sr matric—BA gen., BSc gen., 4 yrs from sr matric—hons BA (in econ., Engl., Engl. & others, French & others, geog., German & Russian, hist., math., philos. & lit., pol sci., psychol.), hons BSc (in chem., chem. and biol., maths and phys.), 4 academic (3 calendar) yrs from sr matric—BAsc (in chem., civil, electr., mech engin.)

HIGHER DEGREES MA (in German, hist., maths), 1 yr beyond hons BA, MSc (in biol., chem., maths, phys.), 1 yr beyond hons BSc, MASc (in chem., civil, electr. and mech engin.), 1 yr beyond BAsc, PhD (in civil, electr. and mech engin., maths, phys.), 3 yrs beyond 4-yr bachelor's degree

HONORARY DEGREES DLitt, LL.D, DSc

FEES Undergrad arts and science, \$470.50 p a; engin.-pre-engin \$545.50, yr 1 \$275 per 4-month term, other yrs \$326 per 4-month term

ACADEMIC YEAR Arts, sci, pre-engin Sept to May; engin yrs 1-4 alternating 4-month periods of study and planned work (co-operative course)

SUMMER COURSES (1st wk in July to 3rd wk in Aug.) Univ. post-degree programme for voc sch teachers, hons courses open only to applicants with bachelor degree. St. Jerome's: undergrad courses (gen) for credit towards BA

ENTRANCE SCHOLARSHIPS 1st yr—free tuition and incidental fees yr I Univ scholar—free tuition and incidental fees (Open to students applying for entry to any fac, and for those proceeding to advanced yrs). Natl. scholar—free tuition and incidental fees, plus \$1000 p a. Maths—\$3000 (\$500 in yr. I, \$800 in each of the 3 succeeding yrs.)

POSTGRADUATE SCHOLARSHIPS AND FELLOWSHIPS Teaching fellowship—\$475 per month Natl Res Council postgrad scholrps, and post-doctorate fellowships Queen Elizabeth II Overseas scholrps, \$2500 Woodrow Wilson Natl Fellowship Foundation, \$1500 plus dependency allowances for wife and children Tuition and fees for the fellow Imperial Oil grad res fellowships, \$4000 each (\$1000 p a for max of 3 yrs) plus \$900 if thesis contd. during summer months. Consolidated Mining and Smelting Co grad res. fellowships, \$2000. Steel Co of Canada grad. res fellowship in metall., \$2000

PUBLICATIONS Sept. *Calendars* for each of facs of arts, sci, engin and grad studies.

UNIVERSITY BOOKSHOP 1000 titles (text-books and gen.); located in engin. bldg

## THE YEAR 1961

## Statistics

STUDENTS NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1127	5
Women . .	67	12
Total	1204	17

*Included in the figures above are:—*

Postgraduate students, 42.

New admissions, 367

Students from other countries, 21. (Countries from which largest numbers came: Africa, 9, U.K., 6).

Distribution by Faculties: Arts, 210, *engin.*, 846, *sci.*, 123; *grad. studies*, 42 Total, 1221

DEGREES AWARDED (1961-62) BA, 36, BSc, 19, BASc, 71, MA, 1, MSc, 21, MASc, 3

# WATERLOO LUTHERAN UNIVERSITY\*

Founded 1911, incorporated 1913

Postal Address: Waterloo, Ontario, Canada

Cables and Telegrams: Waterloo Lutheran University, Waterloo, Ontario

Telephone: Sherwood 4-8141

CHAIRMAN OF THE BOARD OF GOVERNORS—Rev J M ZIMMERMAN, BA W Ont.

PRESIDENT—Rev W J VILLAUME, BA Wagner, BD STM Luth.Theol.Sem., Phil., MS Col., PhD Hartford Sem

ACADEMIC DEAN—Rev. L. H. SCHAUS, BA BD W Ont., MA Col., Hon. DD Luth.Theol.Sem

REGISTRAR—J M KOPAS, BA W Ont.

LIBRARIAN—Rev E R W SCHULTE, BA BD W Ont., BLS ThM Tor

## TEACHING STAFF

[I = Part-Time]

### Biology

MiscLubch, D A, BSc PhD Tor Assoc. Prof

Clerk, J M., MA Mount Prof  
Honeyford, B N, BA PhD Tor Assoc. Prof.  
Appelbo, Jane, BA Qw, BLitt Oxon., MA Lectr  
Boyd, Evelyn M., BA Grundl, MA Chic,  
PhD Cal  
Schultz, Nayda, BA W Ont., MA Tor Lectr

### Business Administration, Economic and Political Science, and Sociology

Ovesgaard, H. O J., BA Mount, MS PhD Col. Prof., Hd. of Dept

Dunn, Rev. G F, BA BD W Ont., MA Tor Assoc. Prof

Panola, R., BA Minn., MS PhD Wis Assoc. Prof.

Stewart, M. D., BA BCom Alta, MA Tor, PhD Mich. State Assoc. Prof

Aun, K, LLB Tarn, JD Hamburg, MA Chic. Asst. Prof.

Canell, G E., BA MBA W Ont., Asst. Prof.

Gren, Rev. H A, BA W Ont., MA Hove of Luth Theol Sem., Phil Asst. Prof

Hesley, P B, BA W Ont., MBA Detroit, MA Mich. Asst. Prof

Brandon, Esther J., BA W Ont., MA Col. Lectr.

Fuller, J. C E, BSA MBA W Ont. Lectr.

Hall, J. T., BCom Tor, CA Lectr.

Punchin, J., BA W Ont., CA Lectr.

### Classics

Gwathlin Jr, W E, BA Wis Jewell, MA Indiana, PhD Pres., LLB Missouri Prof., Hd. of Dept.

Little, Rev. A. B, BA BD W Ont., STM STD Chic. Luth Theol Sem., MA Tor.

Berry, D M, MA Mount, Assoc. Prof Lectr

### English

Roy, Flora, MA Sask, PhD Tor Prof., Hd. of Dept

### Geography

McMurry, J H., BA Minn., MA PhD Prof., Hd. of Dept.

Kasson, P. P., BA Paton, MA Ban., PhD Indiana Assoc. Prof

Keuper, H. P., BS Carroll, MS Clark Asst. Prof.

Harris, S. A., MSc Lond Asst. Prof

### Geology

Dry, J. C., MA W Ont. Lectr.

### German

Reiske, H., MA PhD Tor Assoc. Prof, Hd. of Dept

Nabert, K. E., MA Tor Assoc. Prof

Hodgson, Mrs. Helen, MA Tor Lectr

### Greek, see Classics

### Hebrew

Wagner, Rev N E, BA Sask., BD Luth Theol Sem, Sask, MA Tor Assoc. Prof.

Teigen, Rev. R. C., BA Concordia (N D), BD Luth Theol Sem, Mount, MTh Pres Assoc. Prof

### History

Montgomery, Rev. J W, BA Coen., BLS MA Calif., BD STM Wittenberg, PhD Chic. Assoc. Prof., Hd. of Dept

\* Member of the Association of Universities of the British Commonwealth

- Durst, Rev. G. F., BA BD *W Ont.*, MA *Tw* Assoc. Prof.  
 Calder, L. D., MA *B. Col* Asst. Prof.  
 Heck, W. H., BA *W Ont.*, MA *Qu* Asst. Prof.  
 Evans, Mrs. Anne M., BA *W Ont.*, MA *Tor* Lectr.
- Latin, see Classics
- Library Science  
 Schultz, Rev. E., BA BD *W Ont.*, BLS  
 ThM *Tor* Lectr.
- Mathematics  
 Sweet, F., BSc *Almon.*, MA *Tw* Asst. Prof.  
 Subas, Mrs. Katrina, MSc *Latre* Lectr.
- Military Studies  
 Clark, Major J. M.  
 (Office Commanding Waterloo De-  
 tachment)  
 Ryan, Capt. J. M. (and 1/c Detachment)  
 Tomlinson, Capt. J. R.  
 (R.S.O., Univ. of Western Ontario  
 Contingent)
- Music  
 McClain, C., BA *Wester*, MA *Conn.* Lectr.
- Philosophy  
 Langen, Rev. R. B., BD MA *W Ont.*  
 Assoc. Prof., Hd. of Dept.  
 Little, Rev. J. F., BA BD *W Ont.*, MTh  
 MA PhD *Penn.* Assoc. Prof.  
 Lewis, Rev. C. M., BA *Dal.*, MA *Tw.*  
 ThM *Penn.* Lectr.  
 Stewart, Rev. D., BA *W Ont.* Lectr.  
 Chapman, T. H., MA *W Ont.* Lectr.
- Physical and Health Education  
 Haggstrom, W. A., BSc MEd *Mass.* Asst. Prof.
- Psychology  
 Mougenon, D. F., BA *St. Olaf*,  
 MS *Penn State* Asst. Prof., Hd. of Dept.  
 Anderson, C. W., BEd *Sask.*, MS  
 PhD *McG* Asst. Prof.  
 Detimer, Ruth, BA *W Ont.* Lectr.
- Religious Knowledge  
 Dolbeer, Rev. M. L., BA *Gettysburg*,  
 BD *Wittenberg*, ThD *Harvard*  
 Asst. Prof., Hd. of Dept.
- Lewas, Rev. C. M., BA *Dal.*, MA *Tor.*,  
 ThM *Penn.* Lectr.  
 Tegen, Rev. R. C., BA *Concordia (N.D.)*,  
 BD *Luth. Theol. Sem., Minn.*, MTh  
*Penn.* Lectr.
- Romance Languages  
 Taylor, N. H., MA PhD *Tor*  
 Asst. Prof., Hd. of Dept.  
 Alvarez, M. R., LicL *Valladolid*,  
 MA *W Ont.* Asst. Prof.  
 Bertram, Lorea, MA PhD *Tw* Asst. Prof.  
 Scully, T., MA *Tw* Asst. Prof.  
 Stewart, Miss Ilse E., BA *W Ont.*,  
 MA *Tor* Lectr.
- Sociology, see Bus. Admin.
- Zoology  
 Dagg, Miss Anne, MA *Tw* Lectr.
- THEOLOGY
- Church History  
 Housel, Rev. J. R., BA *Gettysburg*, BD  
*Luth. Theol. Sem., Phil.*, MA *Penn.*,  
 Hon. DD *Muhlenberg* Prof.
- Liturgics and Church Architecture  
 Durst, Rev. G. F., BA BD *W Ont.*,  
 MA *Tor* Lectr.
- New Testament  
 Leopold, Rev. U. S., PhD *Bail* Prof.  
 Schultz, Rev. E., BA BD *W Ont.*, BLS  
 ThM *Tw.* Lectr.
- Old Testament  
 Tegen, Rev. R. C., BA *Concordia (N.D.)*,  
 BD *Luth. Theol. Sem., Minn.*, MTh *Penn.*  
 Assoc. Prof.  
 Wagner, Rev. N. E., BA *Sask.*, BD *Luth.*  
*Theol. Sem., Sask.*, MA *Tor* Lectr.
- Practical Theology  
 Glebe, Rev. D. J., BA *W Ont.*,  
 MA *Boston*, BD *W Ont.* Asst. Prof.
- Systematic Theology  
 Heck, Rev. W., BA Hon. DD *Wittenberg*,  
 BD *Hawana Div. Sch.*, MA PhD *Ns*  
*branks* Prof.

## ADMINISTRATIVE AND OTHER STAFF

Asst. to Pres.: Arlette R. Pederson, BA  
*Angostura*, MA *Chic* Dean of Students: D. F.  
 Mougenon, BA *St. Olaf*, MS *Penn State* Dean  
 of Women: Esther J. Brandon, BA *W Ont.*, MA  
*Cal* Chaplain: Rev. M. L. Dolbeer, BA *Gettys-*  
*burg*, BD *Wittenberg*, ThD *Harvard* Business

Manager: Tammie Giesbrecht, Dn. of Informa-  
 tion and Alumni Relns.: R. V. Heermanssen, Dn.  
 of Athletics: R. Buendorf, MA *Mass.* Dir. of  
 Student Activities and Placement: W. A.  
 Haggstrom, BSc MEd *Mass.*

## CONSTITUENT AND AFFILIATED INSTITUTIONS

WATERLOO UNIVERSITY COLLEGE The arts coll. of the Univ.

WATERLOO LUTHERAN SEMINARY The sch. of theol. of the Univ. Pres—Rev. J. R. Houser, BA Gettysburg, BD Luth Theol. Sem., Phil., MA Penn., Hon. DD Mülhausen, Dean—Rev. U. S. Leupold, PhD Boil.

MINNOCENTE BRETHREN COLLEGE OF ARTS, Winnipeg, Manitoba (tel. Lenox 3-2147) Founded 1944 by the Canadian Conference of the Mennonite Brethren Church as a jr. arts and theol. coll. Affiliated 1961 Pres—Rev. J. A. Toews, BTh Tobo, BA Sask., BD United, MA Manit.

## GENERAL INFORMATION

On July 11, 1910, as a result of a mutual agreement between the Canada synod and the synod of Central Canada, a bd. of management was organized to establish a Lutheran Theol. Seminary in Canada. The town of Waterloo was selected as the location and the Evangelical Lutheran Seminary of Canada was formally opened on Oct. 30, 1911, and incorporated under the laws of the prov. of Ontario in 1913.

Facilities for pre-theol. educ. were establd in 1914. For 13 yrs. courses leading to a bacc. were given in Waterloo Coll. Sch. In 1923 the sch. offered a 1-yr. arts course beyond sr. matric. In 1924 this venture was expanded into the third of Waterloo's educ. units, the Waterloo Coll. of Arts, offering a 4-yr. arts course. Emphasis having been shifted to higher educ., the prep. courses of the Coll. Sch. were reduced and finally abandoned in 1929.

In 1925 the fac. of arts under the name of Waterloo Coll. became affiliated with the Univ. of Western Ontario. 5 yrs. later Waterloo Coll. was granted the right to offer courses leading to the BA honors degree.

With the purpose of expanding the programme of higher educ. at Waterloo, particularly in sci., a non-denominational bd. of govs. was organized and in June 1936 this bd. establd. the associate fac. offering courses in sci. and engin. In this way sci. facilities were developed with the assistance of prov. grants not available to denominationally controlled univs. in Ontario. The associate fac. pioneered the first co-operative engin. programme in Canada and continued its devel. with Waterloo Coll. until 1959 when it severed its connection and received a prov. charter, becoming the Univ. of Waterloo.

Also in 1959, the Evangelical Lutheran Seminary of Canada applied for a revision of its charter changing the corporate title to Waterloo Lutheran Univ. and giving the instn. univ. powers and degree-granting rights. By mutual agreement, the affiliation of Waterloo Coll. with the Univ. of Western Ontario was terminated when the new charter became effective on July 1, 1960. There are two distinctive units controlled by the univ.: (i) Waterloo Univ. Coll., which offers both gen. and hon. programmes in arts, leading to BA degree for men and women of all faiths; (ii) Waterloo Lutheran Seminary which educates

men for the ministry. In August 1961, the Mennonite Brethren Coll. of Arts in Winnipeg, Manitoba, affiliated with the univ.

CONSTITUTION The members of the bd. of govs. are apptd. by the evangelical Lutheran synod of Canada with 10 members for the Canada synod, 4 for the Nova Scotia synod and 2 for the Alumni. In each case, Lutheran laymen comprise half the representatives. Also sitting *ex officio* are the pres. of the evangelical Lutheran synod of Canada and the pres. of the univ. The bd. is responsible for all univ. matters but has delegated academic responsibilities to the senate. The senate, composed of bd. and fac. representation, elected city and county officials, prominent citizens of various faiths, high school principals and alumni, reports to the bd. of govs.

INCOME (1960-61) Total operating income, \$513,674. (Of the non-residential income the sources were: fees, 43 per cent.; federal govt. grant, 32 per cent.; endowment, 5 per cent.; Lutheran synod and bd. of higher educ., 22 per cent.; other income, 2 1/2 per cent.)

FACULTIES AND DEANS Arts, Rev. Dr. L. H. Schuss (academic dean); theol., Rev. Prof. U. S. Leupold (N. Test.)

UNIVERSITY PRECINCT The campus comprises 25 acres in the northern part of Waterloo in the twin cities of Kitchener (pop. 74,846) and Waterloo (pop. 21,665). In 1961 a multi-million dollar development programme was begun and since then 6 new bldgs. have been completed with more under way.

LIBRARY 40,000 vols.

ADMISSION The univ. is able to admit students at 4 levels; either to the 1st yr. of the degree programme on the basis of sr. matric. or equivalent standing, or to a pchm. yr. equivalent to Ontario sr. matric. on the basis of jr. matric. or equivalent standing. See Appendix III.

FIRST DEGREES BA—3 yrs. from sr. matric., 4 yrs. from jr. matric. or pchm. yr. (honors, 4-5 yrs.) Honors may be taken in bus. admin., classics, econ., Engl., geog., geog. & planning, hist., mod. langs. (French, German, Spanish), philos., pol., psychol., sociol. and certain combinations of these subjs.

**HIGHER DEGREES** BD—3 yrs. and thesis beyond BA. Plans for MA studies are under consideration.

**HONORARY DEGREES** DD, DLitt, LL.D.

The university does not award **EXTERNAL DEGREES**.

**DIPLOMAS** Dipl. of seminary—3 yrs beyond BA but no thesis.

**CERTIFICATES** Cert. of seminary—3 yrs. (BA not needed for admission).

The univ. does not have a **STUDY LEAVE** arrangement at present.

**FEES** Annual tuition (incl lab and gen fees) BA, \$420; BD, \$105; prelim yr., \$520.

**ACADEMIC YEAR** Sept to May, a terms of 15 wks each, separated by Christmas vac.

**EXTENSION.** Undergrad courses are conducted in the evenings and on Saturdays locally and in neighbouring centres throughout academic yr.

**SUMMER SCHOOL.** Undergrad courses in a 6-wk session.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS.** Most scholaps. are open for competition each yr on basis of exams. of prov. of Ont. The univ. also has a no. of awards and bursaries available to deserving students from any area.

**A PLACEMENT SERVICE** is available to assist the graduating class and alumni secure positions for which they are qualified. These services are also available to students who desire pt-time and summer employment to assist with univ. expenses.

**GRADUATES.** Both Waterloo Univ Coll and Waterloo Lutheran Seminary have alumni associations with annually elected officers. The alumni nominate members to the univ.'s bd. of govts and senate.

**RESIDENCE.** Accommod. available for 197 men and 102 women in 4 univ. residences. Room and bd., \$525. Univ. approved off-campus housing available.

**DEFENCE TRAINING.** Waterloo Univ Coll contingent, C O T C C O.; Major J M Clark.

**STUDENT UNION.** Bldg under construction. Student ctee to be established working in co-operation with div. of student activities.

**PUBLICATIONS.** Calendar (April) free on request; prospective student leaflets, *Core* (students) (weekly); *Waterloo Campus* (alumni) (quarterly); *Keystone* (students), yearbook pamphlets and leaflets, *Chiaroscuro*, annual literary magazine, *Waterloo Scroll* (seminary students) (annual).

**UNIVERSITY BOOKSTORE.** On campus, open throughout yr.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs completed: women's residence. Approaching completion: theatre-auditorium, student union, dining-hall, men's residence.

**RESIGNATIONS.** E. J. Barnes (classics), to doctoral studies, Tor.; Jean G. Briggs (French), to doctoral studies, Tor.; D. Erb (geol.), to doctoral studies, McG.; A. Diem (geog.), apptd. asst. prof., Waterloo; R. R. Krueger (geog.), apptd. asst. prof., Waterloo; Mary K. Lane (psychol.), to doctoral studies, Lond.; R. Officer (geog.), apptd. asst. prof., Waterloo.

**HONORARY DEGREES.** DD—J. A. F. Schulze, Landes-Supt., W. Germany. LL.D.—R. A. Allen, vice-pres., W. Ont.; G. H. Hees, federal minister of trade & commerce; U. K. Kekkonen, pres. of Finland. DLitt—H. MacLennan, author and prof. of Engl.

### Statistics

**STUDENT NUMBERS, 1960-61**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	719	69
Women	149	82
Total	868	151

**Distribution by Faculties.** Arts, 999; Theol. 20. Total: 1019.

*Included in the figures above are:—*

New admissions, 511.

**Students from other countries, 21** (Countries from which largest numbers came: U.S.A., 7; W. India Fed., 5; Br. Guiana, 4).

**DEGREES AWARDED (1960-61).** Arts: BA, 77; BA hons., 13. Theol.: BD, 4.

**DIPLOMAS AWARDED (1960-61).** Dipl. of seminary, 5.

**CERTIFICATES AWARDED (1960-61).** Cert. of seminary, 1.

# UNIVERSITY OF WESTERN ONTARIO\*

Founded 1828

Postal Address: London, Ontario, Canada  
Cables and Telegrams: Western, London, Ontario  
Telephone: London GE 9-1681

VISITOR—His Honour THE LIEUTENANT-GOVERNOR OF ONTARIO

CHANCELLOR—V. P. CHRYNIN

CHAIRMAN OF THE BOARD OF GOVERNORS—Lt.-Col. D. B. WILSON, MC, Hon. LLD *New Br*

PRESIDENT AND VICE-CHANCELLOR—G. E. HALL, AFC, MSA MD PhD Tw., Hon. DSc *Laval*, Hon. LLD *Amherst*, *Qu*, *Manit* & *Tor*, FRSCan

VICE-PRESIDENT—R. A. ALLEN, MA *Tor*, PhD *Chic*, Hon. LLD *Wash*

REGISTERAR AND SECRETARY OF SENIORS—J. K. WATSON, MA *McM* & *Tor*, PhD *Tor*, FCIC

LIBRARIAN—J. J. TALMAN, MA PhD *Tor*, Hon. LLD *Wat*, FRSCan

COMPTROLLER AND SECRETARY OF BOARD OF GOVERNORS—R. B. WILLIS, MA, FCIS

DEANS—ARTS AND SCIENCES—F. STIELING, BA *McM*, AM PhD *Mich*, MA; R. J. USTUN, MA *Tor*, PhD, Principal of Univ. Coll. (Geophys.), D. G. G. KENN, BA *McG*, PhD *Lond*, Principal of Middlesex Coll. (Hist.), BUSINESS ADMINISTRATION—F. W. P. JONES, BA; ENGINEERING—LA.-Col. R. M. DILLON, MC, BA SM *M.I.T.*; GRADUATE STUDIES—R. A. ALLEN, MA *Tor*, PhD *Chic*, Hon. LLD *Wash* (German); LAW—Hon. I. C. RAND, BA Hon. DCL *Mt. All*, LLB *Harv*, Hon. LLD *Dal*, *New Br*, *Qu*, *Tor* & *Cal*, MEDICINE—O. H. WARWICK, BA *Mt. All*, MA *Oxon*, MD CM *McG*, MRCP, FRCPCan, COLL. OF MUSIC—C. VON KUSTER, MusBac *Tor*; NURSING—R. CATHERINE ATKIN, BA BN *McG*, MA *Chic*; DEAN OF MED.—T. L. HOSKIN, MA *Northwestern*; DEAN OF WOMEN—LEOLA E. NEAL, PhD *Tor*, MA (Psychol.)

## TEACHING STAFF

(† = Part-Time)

### Astronomy, see Maths.

### Botany

Hickman, C. J., MSc PhD *Bur*, Prof.  
McLarty, D. A., PhD *Cal*, BA Assoc. Prof.  
Wilson, D. G., MA *Qu*, PhD *Wat* Assoc. Prof.  
McKeon, W. E., PhD *Tor*, MSc Assoc. Prof.  
Cook, F. S., BA PhD *Tor*, Assoc. Prof.  
Walden, D. B., MSc PhD *Corn*, Asst. Prof.  
Andres, W. A., MSc PhD *McG*, †Hon. Lectr.  
Richardson, L. T., MA PhD *Tor*, †Hon. Lectr.  
Minshall, W. H., MSc PhD *McG*, †Hon. Lectr.  
Good, N. E., BA *Tor*, PhD *Calif*, †Hon. Lectr.  
2 Instrs., 1 Preceptor, 6 Demos

Ladd, D. R., DBA *Harv*, Assoc. Prof.  
Leighton, D. S. R., DBA *Harv*, Assoc. Prof.  
Tham, D., DBA *Harv*, Assoc. Prof.  
Nicholson, J. T., MBA *Harv*, Assoc. Prof.  
Waugh, W. R., BA Asst. Prof.  
Lundberg, C. C., BA MBA *Wash*, Asst. Prof.  
6 Lectrs., 5 Instrs.

### Chemistry

Pattison, F. L. M., MA PhD *Camb*, Prof.  
Siverts, C., BSc PhD *New Br*, MSc Prof.  
PhD *McG*, Prof.  
Bradley, D. C., DSc PhD *Lond*, Prof.  
De Mayo, P., MSc PhD *Lond*, Prof.  
Sukava, A. J., MSc *Manit*, PhD *McG*, Assoc. Prof.

### Business Administration, School of

Jones, F. W. P., BA Prof.  
Thompson, W. A., MBA *Harv*, Prof., Assoc. Dean  
Taylor, J. C., BA, FCA Prof.  
Ready, R. K., MBA DCS *Harv*, Prof.  
Wettlaufer, J. J., MBA Pdp., Assoc. Dean

Howell, W. C., MSc PhD Asst. Prof.  
King, J. F., BSc PhD *New Br*, Asst. Prof.  
Graham, D. M., PhD *Brooklyn Polytech*, Asst. Prof.  
MSc Asst. Prof.  
Baldwin, H. W., MA *Sask*, PhD *Chic*, Asst. Prof.

\* Member of the Association of Universities of the British Commonwealth



Bidmott, D. R., MSc <i>Mant</i> , PhD <i>Mech</i>	Asst Prof
Lozanes, J. W., MA PhD <i>Tor</i>	Asst Prof
Stothies, J. B., MSc PhD <i>Mech</i>	Asst Prof
Willis, C. J., MA PhD <i>Camb</i>	Asst Prof
Burns, J. W., MSc <i>Qu</i> , FCIC	Lects
Spencer, E. Y., MSc <i>Alta</i> , PhD <i>Tor</i> , FCIC	Hon. Prof
Carroll, K. K., MSc <i>Tor</i> , PhD	Hon. Lectr
Miles, D. M., MSc <i>Alta</i> , PhD <i>McG</i>	Hon. Lectr
Thorn, G. D., MA <i>Qu</i> , PhD <i>McG</i> .	Hon. Lectr

2 Lectrs, 18 Demrs

## Classics

Raymond, A. E., MA <i>Tor</i> , PhD <i>Chc</i>	W Sherwood Fox Prof
Ralph, J. D., BA <i>Qu</i> , PhD <i>Chc</i>	Prof
Gorbu, D. E., PhD <i>Tor</i> , MA	Asst. Prof
Pemberton, R. E. K., MA <i>Class</i>	Lectr.
1 Lectr.	

Economic and Political Science and  
Sociology

Innes, M. K., BA <i>Acad.</i> , AM PhD <i>Harc.</i>	Prof
Mayo, H. B., MA DPhil <i>Oxon</i>	Prof.
Reuber, G. L., AM PhD <i>Harc</i>	Prof
Wonnacott, R. J., PhD <i>Harc</i>	Assoc Prof.
Kelson, R. N., PhD <i>Duke</i>	Assoc Prof.
Madden, J. J., PhD <i>Camb</i>	Assoc Prof.
Petchenik, S. G., PhD <i>Lond</i> , MA	Assoc Prof
Lyons, P. V., DPhil <i>Oxon</i>	Asst Prof
Duncan, K. J., MA <i>Tor</i>	Asst Prof
McIntyre, J. A., MA <i>Tor</i>	Asst Prof
Sansom, T. R., BA <i>New Br.</i> , PhD <i>Lond</i>	Asst Prof
Mamalakos, M., PhD <i>Calif</i>	Asst Prof
Mann, W. E., PhD <i>Tor</i> .	Asst. Prof

## Engineering Science

Dillon, Lt.-Col. R. M., MC, BA SM <i>M.I.T.</i>	Prof.
Lauchland, L. S., MSc <i>Tor</i>	Prof.
Keena, J. L., BSc <i>Tor</i> , PhD <i>Iowa</i>	Abitibi Assoc Prof.
Foreman, J. E. K., MME <i>Corn.</i>	Assoc Prof.
Foucher, M. P., DIC, MSc <i>Lond</i>	Assoc. Prof
Emmerson, G. S., MSc(Eng) <i>Lond</i> .	Assoc. Prof.
Olson, A. T., MSc <i>Bryn.</i>	Asst Prof.
Bulawa, W., MSc <i>Sask.</i> , PhD <i>McG</i>	Asst. Prof.
Stewart, J. W., MS <i>Mich.</i>	Asst. Prof
Chess, G. F., BSc <i>Tor</i> , MEng <i>McG</i>	Asst Prof.
Davis, W. H., BSc <i>Tor</i>	Asst. Prof.
Devonport, A. G., MA <i>Camb</i> , MA Sc <i>Tor</i>	Asst. Prof
Soderman, L. G., DIC, BSc <i>Man</i>	Asst Prof
2 Lectrs, 5 Demrs	

## English

MacKinnon, M. H. M., MA PhD <i>Tor</i>	Prof.
Conron, A. B., DSO, PhD <i>Harc.</i> , MA	Prof.

Klinck, C. F., MA PhD <i>Col</i>	Prof.
Woodman, R. G., BA <i>Br Col</i> , MA <i>Mant</i> , PhD <i>Tor</i>	Prof
Buckley, G. E., BA <i>McAll.</i> , AM <i>Col</i>	Assoc Prof
Atkinson, W. E. D., BA <i>Camb</i> , PhD <i>Chc</i>	Assoc Prof
Graham, J. W., MA PhD <i>Tor</i> .	Assoc Prof
Berry, H., MA PhD <i>Nebraska</i>	Assoc Prof.
Hanser, D. R., MA PhD <i>Johns H</i>	Assoc Prof
Reaney, J., MA PhD <i>Tor</i>	Assoc Prof
Statford, P. C., DUParis, BA	Asst Prof
Bandeen, Elisabeth, AM PhD <i>Rudolphe</i>	Asst. Prof
Bates, R. G. N., MA PhD <i>Tor</i>	Asst. Prof.
Sanborn, C. E., MA PhD <i>Tor</i>	Asst Prof.
Fleck, P. D., MA PhD <i>Belf</i>	Asst Prof.
Waterston, Elizabeth, MA <i>Bryn Mawr</i> , PhD <i>Tor</i>	Lects
5 Lectrs, 2 Insts	

## French, Italian and Spanish

Torrens, R. W., AM <i>Harc</i> , PhD <i>Corn.</i>	Prof.
Coilm, W. E., L&SL <i>Toulouse</i> , MA	Prof.
Shervill, R. N., PhD <i>N Carolina</i>	Prof
Bennetton, N. A., PhD <i>Johns H</i>	Prof
Montgomery, F., DUParis, MA	Assoc. Prof
Metford, J. S., MA <i>Br. Col.</i> , DUParis	Assoc Prof
Casaubon, T. J., BA <i>Lypel</i>	Asst Prof
Creighton, D. G., MA <i>Tor</i> , PhD <i>Col.</i>	Asst. Prof.
Helles, L. M., MA PhD <i>Wic.</i>	Asst Prof.
Sanders, J. B., MA <i>Mant</i> , DUParis	Asst Prof
6 Lectrs, 3 Insts, 1 Asst	

## Geography

Pleva, E. G., MA PhD <i>Minu.</i>	Prof.
Pucker, R. W., MA <i>Camb.</i>	Assoc. Prof.
Langvet, O. P., CandPhil <i>Oslo</i>	Asst. Prof.
Whibell, C. F. J., BA MSc PhD <i>Lond</i>	Asst Prof

4 Lectrs, 1 Proceptor, 10 Assts

## Geology

Reavely, G. H., MA	Prof.
Suffel, G. G., MSc <i>Qu.</i> , PhD <i>Stun</i>	Assoc. Prof.
Dacimosa, A., MNatS <i>Latvia</i>	Assoc. Prof.
Winder, C. G., PhD <i>Corn</i> , BSc	Assoc. Prof
Boone, G. M., MA <i>Broun</i> , PhD <i>Yale</i>	Asst. Prof.
Kramer, J. R., BSc <i>M.I.T.</i> , MS PhD <i>Mich</i>	Asst Prof
1 Proceptor, 4 Demrs	

## Geophysics

Beck, A. E., BSc <i>Lond</i> , PhD <i>A.N.U.</i>	Assoc Prof
Uffen, R. J., MA <i>Tor</i> , PhD	Lectr.
Carmichael, C. M., MSc PhD	Lectr
1 Lectr, 6 Assts	

## German

Kalbfleisch, H. K., MA <i>N.Y.</i> , PhD <i>Mich.</i>	Prof.
Tracy, G. L., MA PhD <i>Wic</i>	Assoc. Prof.

Allen, R. A., MA *Tor*, PhD *Chic*,  
Hon. LLD *W'at Luth*  
2 Lects., 2 Instrs.

**Hebrew**

Jackson, J. J., AB BD *Harv*

**History**

Ferguson, W. K., MA PhD *Cow*,  
Hon. LLD, FRSCan

J. B. Smillie Memorial Prof.  
Keri, D. G. G., BA *McG*, PhD *Lond* Prof.  
Overton, R. C., AM PhD *Harv* Prof.  
Halderston, W., MA PhD *Cow* Assoc. Prof.  
Gwynne-Timothy, J. R. W., MA *Tor*,  
DPhil *Oxon* Assoc. Prof.  
Wilson, G. A., MA *Dal*, PhD *Tor* Assoc. Prof.  
Stockdale, W. H., MA *Albany*,  
PhD *N Y* Asst. Prof.  
Tuckett, A. V., MA *Tor*, PhD *Harv* Asst. Prof.  
Maize, S. F., MA PhD *Chic* †Lectr.  
McLaughlin, J. P., BA *Qu*, PhD *Lond* †Lectr.  
Raymond, A. E., MA *Tor*, PhD *Chic* †Lectr.  
Tulman, J. J., MA PhD *Tor*,  
Hon. LLD *W'at*, FRSCan †Lectr.  
Hitchins, F. H., PhD *Penn*, MA †Lectr.  
2 Lectrs.

**Italian**, see French

**Journalism**

Wild, J. L., MA *Mick*, BA Prof.  
Beattie, E. J., BA *Manit*, BEd *Tor* Assoc. Prof.  
7 Lectrs. †

**Law**

Rand, Hon. I. C., BA Hon. DCL *Mt All.*,  
LLB *Harv*, Hon. LLD *Dal*, *New Br*,  
*Qu*, *Tor*, & *Cal* Prof.  
Mackay, R. S., LLB *Tor*, LL.M. *Cal* Prof.  
Gow, J., LLB PhD *Aberd.* Prof.  
Johnston, D. M., MA LLB *St. And*,  
MCL *McG*, LL.M. *Yale* Asst. Prof.  
5 Lectrs.

**Mathematics (Pure and Applied) and Astronomy**

Magge, G. R., MS PhD *Chic* Prof.  
Cole, R. H., MA PhD *W'at* Prof.  
Weilau, W., AB PhD *Calif* Prof.  
Blackwell, J. H., MSc PhD Prof.  
Cross, G., MA *Dal*, PhD *Br Col* Assoc. Prof.  
Hart, J. P., MA PhD *Tor* Assoc. Prof.  
Sanders, J., MA *Qu*, PhD *Sys* Assoc. Prof.  
Tulman, J. D., PhD *Prin*, MSc Assoc. Prof.  
Ali, M. M., MSc *Dacca*, MS *Mick*,  
PhD *Tor* Asst. Prof.  
Lee, C. N., MA PhD *Virginia* Asst. Prof.  
McKay, D. O., MA PhD *Buffalo* Asst. Prof.  
5 Lectrs., 2 Instrs.

**Medicine**, see below

**Music, College of**

von Kuster, C., MusBac *Tor* Pro.  
Paslow, Kathleen Pro.  
Rosa, A., BA Pro.  
McKellar, D., MusBac *Tor* Assoc. Pro.  
McIntosh, J. S., MusBac *Tor*, MM *Rock* Asst. Pro.  
Munn, H. Asst. Pro.  
Terry, E., BA BEd MMus *Tor* Asst. Pro.  
1 Lectr., 1 Instr.

**Nursing, School of**

Atkin, R. Catherine, BA BN *McG*,  
MA *Chic* Des.  
Horn, E. M., BSc MA *Cal* Asst. Pro.  
Asst. Pro.  
23 Lectrs., 2 Instrs.

**Philosophy**

Johnson, A. H., MA PhD *Tor*, FRSCan Pro.  
Bruce, J. A., PhD *Lond*, MA Assoc. Pro.  
Dwyer, J. W., AM PhD *Brasov* Assoc. Pro.  
Henry, W. C., PhD *Tor*, MA Assoc. Pro.  
Johnson, H. J., PhD *Chic* Assoc. Pro.  
Robinson, P. R., PhD *Lond*, MA Asst. Pro.  
Angela, P. A., MA PhD *Cal* Asst. Pro.  
Block, I., MA PhD *Harv* Asst. Pro.  
French, S. G., MA *Rosh*, PhD *Virginia* Asst. Pro.

3 Lectrs.

**Physical Education**

L'Heureux, W. J., MA *Mach* Pro.  
Farr, J. R., BSc AM *Cal* Assoc. Pro.  
Berms, Mrs. Elfrida M., MM *Lutwa* Assoc. Pro.  
Yuhask, M. S., MS PhD *Ill* Assoc. Pro.  
Pillsworth, W. J., MA *N Y* †Lectr.  
3 Lectrs., 2 Instrs.

**Physics**

Forsyth, P. A., MA *Seak*, PhD *McG*,  
FRSCan Pro.  
Brammer, E., MA *Tor*, PhD *McG* Pro.  
Nicholls, R. W., DSc PhD *Lond* Pro.  
Durnford, A. M. I. A. W., PhD *Tor*,  
MA Assoc. Pro.  
Fraser, P. A., MSc *W'at*, PhD Assoc. Pro.  
Hay, D. R., PhD *McG* Assoc. Pro.  
Tull, E. H., MSc Asst. Pro.  
Carmichael, C. M., MSc PhD Asst. Pro.  
Ferguson, H. I. S., MSc PhD Asst. Pro.  
Rose, G. S., BSc PhD *Bum* Asst. Pro.  
Fulford, J. A., BSc PhD Asst. Pro.  
Allen, R. L., MA *Mt All* †Lectr.  
Blackwell, J. H., MSc PhD †Hon. Lectr.  
MacDonald, J. C. F., MA *Br. Cal*,  
PhD *Tor* †Hon. Lectr.

Bock, A. E., BSc Lond, PhD A N U

{Hon Lectr

3 Lectrs, 1 Instr, 9 Demis.

**Psychology**

Turner, G., MA PhD Tor.

Prof

Wright, Mary, MA PhD Tor.

{Assoc. Prof.

Neal, Leola E., PhD Tor., MA

Assoc. Prof.

Paul, J., MA PhD Tor.

Assoc. Prof.

Havelka, J., MA BSc, MSc McG.,

Assoc. Prof.

PhD Missau

Schroder, M. M., PhD McG., MA

Assoc. Prof.

Gardner, R. C., MSc PhD McG

Asst. Prof.

McClelland, W. J., MA Tor., PhD Lond

Asst. Prof.

Taylor, F. W. R., MA PhD Tor.

Asst. Prof.

Teghtsoonian, R., MA Tor., PhD Harv

Asst. Prof.

6 Lectrs

**Russian**

Ignatieff, L., MA PhD Mich

Prof.

Izyumov, M. S. Helan, BA Moscow

Lectr.

2 Instrs }

**Secretarial Science**

Gallespie, Mary, AM Col.

Prof

Chapman, Mrs. Elaine, BA

Asst. Prof.

Walker, Mrs. Roma, AM Cal.

Asst. Prof.

1 Lectr., 1 Asst

**Spanish, see French****Zoology**

Brown, A. W. A., MBE, BScF MA

Prof

PhD Tor.

Battie, Helen, PhD Tor., MA

Prof.

Judd, W. W., MA PhD Tor.

Assoc. Prof.

Scott, D. M., BSc PhD McG

Assoc. Prof.

Stinson, R. H., BA McM., PhD Tor.

Assoc. Prof.

Booms, T. K. R., MA Br. Col.,

Asst. Prof.

PhD Rutgers

McMillan, D. E., PhD Tor., MSc

Asst. Prof.

Kennedy, M. H. A., MA Br. Col.,

Asst. Prof.

PhD Glas

Kennedy, W. A., BA PhD Tor.

{Hon. Prof.

Chofurka, W., BSc Manit., MA Manitoba,

{Hon. Lectr.

PhD Harv (on leave)

Colhoun, E. H., BSA Tor., PhD Camb

{Hon. Lectr.

Monro, H. A. U., MSc McG.

{Hon. Lectr.

Lawrie, A. H., MA Tor.

{Hon. Lectr.

Tibbles, J. J., MSc PhD W. A.

{Hon. Lectr.

Bond, E. J., BSA Tor., PhD Lond

{Hon. Lectr.

Steele, J. E., MSc PhD Sask.

{Hon. Lectr.

1 Preceptor, 6 Assts, 9 Demis

**MEDICINE****Anesthesia**

Spoerel, W. E. G. A., MD Pra.,

Asst. Prof.

FRCPCan

Growse, J. M., MD CM Qu.

Asst. Prof.

4 Sr Assts, 8 Instrs

**Anatomy**

Skinner, H. A., MB Tor.

Prof.

von Hochstetter, A. H. C., MD Vicus

Prof.

Bartelsk, D. L., MD Acad

Res. Prof.

Cass, D. H., MBE ChB Lev

Asst. Prof.

5 Instrs

**Bacteriology and Immunology**

Muiray, R. G. E., MD CM McG.

Prof.

MA Camb.

Robinson, C. F., MD Harv

Prof.

Fitz-James, P. C., MD PhD

Assoc. Prof.

Campbell, E. W. R., MD CM McG

Asst. Prof.

Duncan, I. B. R., MB ChB Glas.

Asst. Prof.

Bakewell, A., MA McM., PhD

Asst. Prof.

Hannay, C. L., PhD Lond

{Hon. Lectr.

2 Assts

**Biochemistry**

Rossiter, R. J., BSc W. Aust., DM

Prof.

MA DPhil Oxw, FRIC

Stewart, H. B., PhD Tor. &amp; Camb.

Prof.

Stuckland, K. P., PhD

Assoc. Prof.

Heagy, F. C., PhD

Asst. Prof.

McMurray, W. C. C., BSc PhD

Asst. Prof.

Spencer, E. Y., PhD Tor.

{Hon. Lectr.

Dorrick, J. B. D., PhD

{Hon. Lectr.

Carroll, K. K., MA Tor., PhD

{Hon. Lectr.

1 Lectr., 7 Assts

**Biophysics**

Burton, A. C., MA PhD Tor., FRSCan

Prof

Inch, W. R., BSc Qu., PhD

Hon. Lectr.

2 Assts.

**Medical Ethics**

Robinson, J. B. C., MD MSc

{Hon. Lectr.

**Medical Jurisprudence**

Ross, C. J. F

Lectr.

**Medical Research**

Collip, J. B., CBE, MA PhD Tor., MD Alta.

Hon. MD Lond, Hon. DSc Alta, Harv.

&amp; Oxw., Hon. LLD Manit., Qu., Alta.

&amp; McG., FRCPCan, FRCP, FRSCan,

FACP, FRS

Prof., Hd. of Dept.

Paterson, J. C., MD BSc(Med) Tor.

Prof.

Murray, E. G. D., OBE, MA Camb.

FRCS

Guest Prof.

Carroll, K. K., MA Tor., PhD

Assoc. Prof.

Phunkett, E. R., MD PhD

Asst. Prof.

Swartz, D. P., MD MSc, FRSCan

Asst. Prof.

Dorrick, J. B. D., MA Br. Col., PhD

Asst. Prof.

Rossiter, R. J., BSc W. Aust., DM MA

DPhil Oxw., FRIC

Hon. Lectr.

Stevenson, J. A. F., MA MD CM McG.

Hon. Lectr.

Rathbun, J. C., MD Tor., FRCPCan

Taylor, N. B. G., MD Tor., PhD Hon Lectr  
 McAlpine, H. T., BA MD Hon Lectr  
 3 Assts

**Medicine**

Bevan, F. S., BA MB Tor., FRCPCan Prof  
 Manning, G. W., MD MA PhD Tor., FRCPCan Assoc Prof.  
 Lewis, J. A., MD, FRCPCan Asst Prof  
 Bartram, E. A., MD Asst Prof  
 Hession, B. L., MD, FRCPCan Asst Prof  
 Shalpe, W. C., MB Tor. Asst Prof  
 5 Assts, 28 Instrs, 2 Lectrs, 7 Sr Teaching Fellows, 3 Res Assts

**Microscopic Anatomy**

Barr, M. L., MSc MD, FRSCan Prof  
 Buck, R. C., MD MSc PhD DPH Lond. Prof.  
 Carr, D. H., MB ChB Lond. Asst Prof.  
 Soltau, H. C., PhD Tor. Asst Prof  
 Robenow, C. F., MD Hamling Hon Lectr  
 1 Lectr

**Obstetrics and Gynaecology**

Kinch, R. A. H., MB BS Lond., FRSCan Prof.  
 Walters, J. H., BA MD, FRSCan Asst Prof.  
 Swartz, D. P., MD MSc, FRSCan Asst Prof.  
 Johnson, F. L., MD Tw., FRSCan Hon Asst Prof  
 4 Sr Assts, 1 Instr, 4 Sr Teaching Fellows

**Ophthalmology**

Dween, C., MD DipOph McG. Assoc Prof  
 Thompson, C. A., BA MD CM McG. Asst Prof  
 Ballantyne, J. R., MD Tw., FRSCan Asst Prof  
 1 Sr Assoc, 1 Instr

**Otology, Rhinology and Laryngology**

Greenway, R. E., MD, FRSCan Assoc Prof  
 Rounthwaite, F. J., BSc MD CM McG., FRSCan Asst Prof  
 1 Sr Assoc, 4 Instrs

**Pediatrics**

Rathbun, J. C., MD Tor., FRCPCan Prof.  
 Campbell, Mrs Margaret K. P., MD Tor. Asst Prof.  
 Denison, A. G., MD Asst Prof.  
 Valentine, G. H., MB ChB Brst Asst Prof.  
 1 Instr, 1 Sr Assoc, 3 Sr Teaching Fellows, 1 Asst.

**Pathological Chemistry**

Neufeld, A. H., MSc PhD Mont., MD CM McG., FCIC Prof  
 Pearce, R. H., MSc PhD Assoc. Prof

Brownstone, Y. S., MSc Mantr., PhD McG

Barton, W. B., MD, FRCPCan Asst Prof  
 Meltem, D. B., BSc Mantr., MD, FRCPCan Asst Prof

McLaurie, T. D., BA MD, FRSCan Hon Lectr

Toogood, J. H., MD Tw., DIM McG Hon Lectr  
 4 Res Assts

**Pathology**

Fisher, J. H., MSc MD, FRCPCan Prof  
 Smart, M. S., MD Asst Prof.  
 Malone, R. G. S., MD BCh Belf Asst Prof  
 3 Lectrs, 1 Sr. Fellow

**Pharmacology**

Gowdey, C. W., DPhil Oxon., MSc Prof  
 2 Instrs, 1 Dema, 1 Asst

**Physical Medicine and Rehabilitation**

1 Lectr, Prof

**Physiology**

Stevenson, J. A. F., MA MD CM McG. Prof.  
 Savary, G. W., MD Odessa, MSc MD CM McG. Prof.  
 Sequin, J. J., MSc PhD Asst Prof.  
 Dyson, C., MD DO McG. Hon Lectr.  
 Manning, G. W., MD PhD Tw., FRCPCan Hon Lectr  
 2 Lectrs, 5 Res Assts

**Psychiatry and Preventive Medicine**

Hobbs, G. E., BA MD Tor., MPH Mich Michael Francis Fallon Prof.  
 Buck, Carol, DPH Lond., MD PhD Prof.  
 Metcalfe, E. V., MD DPsych Tor. Asst Prof.  
 Tullmann, W. A., MD MSc Asst Prof.  
 Wanklin, J. M., BA PhD Asst Prof.  
 Wackman, J. M., MD CM Qw Asst Prof.  
 2 Sr Assts, 7 Lectrs, 16 Instrs, 2 Demas, 3 Res Assts

**Radiology, Diagnostic**

Copstake, G. G., BA Comb, DMRD Edu Asst Prof.  
 Hauch, P. P., MD Asst Prof.  
 Hill, M. B., MD CM Qw Asst Prof.  
 2 Sr Assts, 5 Instrs, 1 Sr Teaching Fellows

**Radiology, Therapeutic**

Lott, J. S., BA MD Assoc Prof.  
 Hogg, F. C., MD PhD Asst Prof.  
 Inch, W. R., BSc Qw, PhD Asst Prof.  
 MacDonald, J. C. F., MD Br Col., PhD Tor. Asst Prof.  
 McCredie, J. A., MB MCh BAO Belf., FRCS, FRCS(Ed), FRSCan Hon Lectr.

Plunkett, E. R., MD PhD 4 Lects., 1 Instr., 2 Res. Fellows	Hon. Lectr	Callaghan, V. A., MD, FACS Kennedy, J. C., MD, FRCSCan Duke, C. G., MD MSc, FRCSCan McAninch, L. N., MD, FRCSCan, FACS	Asst. Prof. Asst. Prof. Asst. Prof. Asst. Prof.
<b>Surgery</b>		Coles, J. C. G., BA MD MSc, FRCSCan McFarlane, R. M., MD MSc, FRCSCan	Asst. Prof. Asst. Prof.
McLachlin, A. D., DPhil Oxon., MS Tw., MD DSc, FRCSc, FRCSCan	Prof.		
Grace, A. J., MA BM BCh Oxon., FRCSc, FRCSCan, FACS	Assoc. Prof.		
Ross, C. C., OBE, MD Mount., FRCSEd	Asst. Prof.	1 Sr. Assoc., 10 Instra. (Surg.), 1 Sr. Teaching Fellow	Asst. Prof.

### ADMINISTRATIVE AND OTHER STAFF

Dn. of Univ. Health Services, R. J. Bowers,  
BA MD. Dn. of Extension & Summer Sch.  
Dept. J. A. McIntyre, MA Tw. Dir. of  
French-English Summer Sch. at Trois-Pistoles,  
Que. T. J. Casaubon, BA Local Dns. of

Placement. N. M. Armstrong, BA (Sch. of  
Bus. Admin.); B. G. Wells, BA (Asst. to Dean  
of Men) Warden of Spencer Hall  
Warden of Medway Hall Dr. W. C. Henry

### AFFILIATED INSTITUTIONS

HEURON COLLEGE OF ARTS, London, Ont. (tel.:  
GE 8-7224) (Anglican) Founded 1863. Pro-  
vides courses in Anglican theol. as well as in arts.  
Awarded BD degree. For men and women. Actg.  
Principal—Rev. J. G. Morden, BA BD DTh  
26 other teachers.

ST PETER'S SEMINARY AND CHRIST THE KING  
COLLEGE OF ARTS, London, Ont. (tel.: GE 2-1824  
and GE 4-6821) (R.C.) Founded 1912,  
affiliated 1923. Provides a number of courses

leading to BA of Univ. For men only. Rector—  
Mgr. A. P. Mahoney, Hon. LLD. Dean—Rev.  
L. A. Wemple, Ph.D. *Found. Athos Angelicus*, BA  
24 other profs. and instr. in arts subjs.

UNSWINE COLLEGE OF ARTS, London, Ont.  
(tel.: GE 2-8353) (R.C.). Affiliated in 1919.  
Provides a number of courses leading to BA of  
univ. For women only. Dean and Prof. of  
French—Mother Marie, PhD Tw. 18 other  
profs. and instr. in arts subjs.

### GENERAL INFORMATION

Incorporated by an act of the provincial legisla-  
ture in 1878 as the 'Western University of  
London, Ontario', in connexion with the Church  
of England, the univ. has become, under the pro-  
visions of amending acts of 1908, 1923 and 1955,  
absolutely undenominational in its govt., which  
is under provincial and municipal control. It  
consists of 7 divs. of the univ. proper—the fac. of  
arts and sci. (University Coll., Middlesex Coll.,  
Coll. of Music), the fac. of grad. studies, the fac.  
of engin. sci., the fac. of law, the fac. of med., the  
sch. of nursing and the sch. of bus. admin.—as  
well as the affiliated instrs. listed above.

**CONSTITUTION.** The univ. senate is responsible  
for academic affairs, while the bd. of governors  
controls financial affairs. The bd. of governors  
is partly apptd by the lt.-governor-in-council,  
partly by the London city council, partly by the  
univ., and partly elected. The senate is partly  
univ. admin. & fac. members, ex officio; partly  
elected by fac. members, secondary sch., prin-  
cipals and univ. grads., and partly apptd by out-  
side bodies, e.g. bds. of educn. and nearby city  
and county councils. The president and vice-  
chancellor is chairman of the senate and a member  
of the bd. of governors.

**INCOME (1960-61)** \$7,081,763, incl. \$1,142,512  
for 128 and \$1,035,648 for ancillary enterprises.  
Principal sources (excl. ancillary enterprises):  
federal govt., 17.8 per cent.; provincial govt.,  
20.1 per cent.; municipal, 1.3 per cent.; 100  
grants, 19.3 per cent.; other gifts and grants, 1.4  
per cent.; student fees, 34.3 per cent.; endow-  
ment income, 1.4 per cent.; other sources, 4.2  
per cent.

**FACULTIES AND SCHOOLS.** See above (for deans,  
see p. 403).

**UNIVERSITY PRECINCT.** Campus consists of  
more than 500 acres along Thames River in N.  
London. Fac. of med. is in a hosp. centre on  
South St. Each affiliated coll. has its own campus  
close to north precinct. Plans call for a basic  
med. sci. bldg. on north campus soon. It is also  
planned to keep a good deal of space open for  
playing fields.

**LIBRARIES** of univ. proper: 300,000 vols. plus  
several thousand pamphlets. Barnett collection  
contains many rarities dealing with  
Canadian and American hist.

**LABORATORIES** J. B. Collip med. res. lab.,  
cancer res. lab.

TEACHING HOSPITALS in London. Victoria, St Joseph's, St Mary's, War Memorial Children's, Bethesda, Ontario, Beck Memorial San., Westminster (Veterans), Ontario H., nr St Thomas, Ont.

ADMISSION. See Appendix III. Admission to the med. sch. is usually not open to non-Canadian students because of limited facilities.

FIRST DEGREES 3 yrs. (4 for hon.) from a matric—BA, BSc, 4 yrs. from a matric—BEd; 5 yrs from a matric—LLB, BScN (nursing), 6 yrs from a matric—MD.

Hons. courses represent both gen. and sp. educ. as well as higher standards. Hons. may be taken in bio., bus. admin., chem., classics, compar. lit. incl. Russian, econ., Engl., French, geog., geol., German, hist., journalism, Latin, maths (pure, appl., statistical, astronomical, actuarial), med. langs., music, philos., phys. & health educ., phys. (general, geophys., radiophys. & electronics), pol. sci., psychol., sociol., and combinations of these subs. Univ. and Middlesex Colls. offer all except bus. admin., which is available in a sep. sch., St Peter's Coll. offers hons. philos., Coll. of Chast. the King offers a few arts hons. courses, Uxaline Coll. offers most of the arts hons. courses but none in natural sci., Huron Coll. offers some hons. work.

Attendance on part of the classes (in arts only) may be dispensed with by permission of the senate, but all students must have attended lectures in the univ. for the equivalent of 2 yrs. before they graduate.

HIGHER DEGREES 1 yr. from hons. BA or BSc, or 2 yrs from ord. BA or BSc—MA, MSc, MBA, MScN, LL.M.; 5 yrs of clin. & grad. study (open only to holders of FRCP(C) or FRCS(C))—MChS; 3 yrs of grad. work in arts, business admin., sci. or med. depts.—PhD.

The MA may be taken in classics, econ. & pol. sci., Engl., geog., German, Hebrew, hist., maths & astron., philos., psychol., romance langs. The MSc may be taken in bacteriol. & immunol., biochem., biophys., bot., chem., geol., geophysics, med. res., microscope anat., pharm., phys., physiol., sociol. The PhD may be taken in almost all subjects in which master's degrees are available.

HONORARY DEGREES. DCL, LLD, DSc, DLit, MEd, DD.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Bus. admin., journalism, pub. health nursing (DPHN), nursing educ. (DNE), nursing service admin. (DNSA), each course 1 yr., for grads in respective fields, music (pedagogy), 2-yr. course in Coll. of Music.

FEES. Annual arts and sci., \$465; bus. admin., \$490, law, \$500; engin. sci., \$550, med., \$675, nursing, \$465, grad. studies, \$345 (arts and sci.), \$490 (bus. admin.).

ACADEMIC YEAR. Sept 12-May 15 (approx.)—year varies from 32 to 36 wks. among the various facs. and schs.

CORRESPONDENCE AND EXTENSION WORK in winter sessions in some general course subs., offered mainly for teachers and other adult students, either as credit courses towards degrees or as non-credit cultural courses. No degree may be earned entirely in the extension and correspondence div., without attendance at winter or summer sessions. Adult educ. is under the control of the summer sch., correspondence and extension dept.

THE SUMMER SCHOOLS (approx. 1600 students) offer a 7-wk. course at Trois-Pistoles, Que., in French for English-speaking students, and in English for French-speaking students, and a 6-wk. course at University Coll. in standard arts & sci. subs. of the gen. course (for BA) as well as hons. work in Engl., geog., hist. and maths for teachers with degrees who are working for certain teaching certs.

2 summer courses, each of 1 month's duration, in marketing and in management trig. at executive level, for about 200 men.

THE ALUMNI ASSOCIATION assumes some responsibility for the placement of grads. In addition, the asst. to the dean of men supervises a placement service for summer and for permanent employment, and sch. of bus. admin. and engin. sci. fac. have their own placement bureau.

STUDENT RESIDENCES. Spence Hall, London Township (for 104 women), Midway Hall and a new men's residence (not yet named) (for 600 men), Brescia Hall (100 Uxaline Coll. women), Huron Coll. (400 men and women in various residences), Chast. the King Coll. residences for 180 men, St Peter's Coll. (150 men), fraternity houses and sorority houses for men and women above the freshman level, the United Church residences accommodate 300 men and women, Newman House 15 men, and Lutheran Student Centre 10 men.

THE DEPT. OF MILITARY STUDIES offers trg. in the univ. naval trg. div., at the R.C.A.F. univ. reserve trg. plan or the Canadian officers' trg. corps.

THE UNIVERSITY HEALTH SERVICES provide free med. service for students daily, at the campus health centre, and the univ. physician and his staff are on call to visit students in their residences. A group health insurance fee pays for special services.

PUBLICATIONS. *Arts and Science Announcement (May)*; *Med. School Announcement (Aug)*; *The Business Quarterly*; *Medical Journal*, *Uxaline Gazette* (once a week during term); *Oscanderina* (May); *Admission Handbook* (April); *School of Business Admin. Announcement (March)*; *Facs. of Law Announcement (May)*; *Facs. of Graduate Studies Announcement (May)*; *Directory of Student Handbook (Nov.)*; *Facts* (student literary publica., Dec. and April); *Freshman Handbook* (Sept.); *Alumni Gazette* (6 times a year).

FIRST. *These Sixty Years* Prof. W. F. Timblin (University, 1938). *Waters*, 1878-1933 J. J. & R. D. Talman (University, 1953).

## THE YEAR 1961

**PRINCIPAL BENEFICIARIES** National Cancer Inst., \$60,000 for spec. apparatus for cancer res. lab.; anon. donor, \$60,000 for spec. capital purposes.

(Total value of all benefactions received (incl. grants from outside foundations for 1961, etc., but not incl. govt. grants): more than \$1,500,000)

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed: Richard Ives sch. of bus. admin. bldg. library, addnl. greenhouse for Wough bot. res. bldg. Approaching completion: addition to gen. library (Lawson memorial library), addition to Univ. Coll.

**RETIREDMENT** Helen M. B. Allison (registrat.); Mrs. Dorothy Stauchett (warden, Spencer Hall); Prof. H. M. Thomas (hist.).

**RESIGNATIONS** Brigadier the Hon. H. F. Gregg (warden, Medway Hall); Prof. J. D. Ralph (classics), but continuing as prof.; Prof. J. K. Watson (chemistry), on transfer to registration; Asst. Prof. F. M. Kelly, Jr. (Engl.); Prof. Edith M. McDowell (nursing), post-retirement resignation; Prof. J. Cook (music).

**DEATHS** Prof. D. Ives (prof. & hd., econ. & pol. sci.); Dr. I. H. Smith (prof. & hd., therapeutic radiol.).

**HONORARY DEGREES** DCL—Dean E. N. Griswold, Harvard law sch. DSc—H. B. Spelman. LLd—E. C. LeBel, pres., Assum.; Mrs.

Josephine S. Niblett, benefactress of law sch.; J. W. Horsey, member of bus. sch. advisory ettee.; P. B. Papachristidis, philanthropist; J. W. Monro, fed. minister of health & welfare.

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time*	External*
Men	1252	1322	354
Women	1463	760	176
Total	4715	2082	530

Distribution by Faculties: Arts & sci., 5098; bus. admin., 138; engin., 228; grad. studies, 448; law, 96; med., 241; nursing, 178. Total - 7327.

Included in the figures above are —

Postgraduate students, 448.

New admissions, 2,492.

Students from other countries, 172 (Commonwealth, 82; U.S.A., 38; Europe, 31).

**DEGREES AWARDED (1960-61).** Arts & sci. BA, 466; BA (hons.), 123; BSc, 4; BSc (hons.), 36; BEd (hons.), 15. Bus. admin.: BA (hons.), 57. Grad. studies: PhD, 10; MSc, 18; MScN, 1; MBA, 74; MA, 13. Med.: MD, 57. Nursing: BScN, 38.

**DIPLOMAS AWARDED (1960-61)** Bus. admin., 15; journalism, 1; music, 4; nursing, 140.

\* All other part-time students are intra-mural or as attendants at summer sessions. The external students are not included in the part-time figures.

# CEYLON

University of Ceylon (p. 412)

Vidyānāth University of Ceylon (p. 419)

Vidyodaya University of Ceylon (p. 421)



# UNIVERSITY OF CEYLON§

Founded 1942 by incorporation of Ceylon Medical College (1870) and  
Ceylon University College (1921)

Postal Address (Registrar) Peradeniya, Ceylon

Cables and Telegrams . University, Peradeniya

Telephones—

Colombo . Colombo 8349

Peradeniya . University Exchange Kandy

CHANCELLOR—H E. THE GOVERNOR-GENERAL OF CEYLON

PRO-CHANCELLOR—THE MINISTER OF EDUCATION

VICE-CHANCELLOR—SIR NICHOLAS AITTGALLI, LMS Hon DSc LLD, FRCS, FRCOG

REGISTRAR—W A. JAYAWARDANA, MA

LIBRARIAN—S C. BLOK, BA Lond., FLA

ACTING BURAR—G E. PERERA, BA

## TEACHING STAFF

[\*—Hd. of Dept.]

### Agriculture

- Chandrimatne, M. F., BSc PhD Lond. \*Prof.  
Williams, D. W., BSc Ohio State, MSc Ill.,  
LLD Austen Coll., IngAgric Saltile Prof  
Baptist, B. A., BSc Lond., PhD Camb.  
(Agric. Zool.) Lectr.  
Wikiremanayake, V. E. A., BSc(Agr) Bom.,  
MSA Tor. (Agric. Engin.) Lectr  
Kaiyapa, F. S. C. P., PhD Lond., DipAgricChem  
Leeds, BSc (Agric. Chem.) Lectr  
de Silva, P. L. G., BVSc  
(on leave) (Animal Husb. & Vet. Hyg.) Lectr.  
Seneviratne, S. T., MScAgron PhD Calif.,  
BSc(Agric) (Agron.) Lectr  
Jegaratnam, T., MSA Tor., BA  
(Agric. Econ. & Farm Managmt) Lectr.  
Sameerawara, I. St. E., MSA Penn. State,  
MSc Penn., PhD Manit., BSc(Agric)  
(Agric. Bot.) Lectr  
Appadurai, R. R., MS Texas Agric.,  
PhD Lond., BSc(Agric) (Agron.) Lectr  
Karanayegoda, H., MS Texas Agric.,  
BSc(Agric) Asst Lectr

Anatomy, see Medicine

### Archaeology

- Panunvatane, S., CBE, PhD Ley., Hon DLitt  
Prof.  
Vimalananda, T., MA Cole., PhD Lond. Lectr  
Prematilake, P. L., BA Asst Lectr

### Botany

- de Silva, B. L. T., MSc PhD Lond. \*Prof.  
Abeywickrama, B. A., BSc Lond.,  
PhD Camb. Lectr  
Dasanayake, M. D., MA Camb., PhD Manc.,  
BSc Lectr.  
Tharubai, M. S., PhD Lond., BSc Lectr.  
De Fonseka, R. N., PhD Lond., BSc Lectr  
Cooray, M. H. V., BSc Asst Lectr.

### Chemistry

- Fonseka, E. L., MSc PhD Lond., FRIC \*Prof.  
Sultan Bawa, M. U. S., DIC, PhD Lond.,  
BSc Lond. & Ceyl. Lectr.  
Seywardena, P. P. G. L., PhD Camb., BSc Lectr.  
Wannigama, G. P., PhD Camb., BSc Lectr.  
Thirunamachandran, V. T., BSc  
PhD Lond. Asst Lectr  
Percira, Mrs W. P. Dany, MSc  
(on leave) Asst. Lectr.  
Ramakrishna, R. S., DPhil Oxon., BSc  
Asst Lectr  
Rodrigo, R. G. A., BSc (on leave) Asst Lectr.  
Ariyaratne, J. K. P., BSc (on leave) Asst Lectr  
Solvaratnam, M., BSc (on leave) Asst. Lectr  
Thirunajagan, P., BSc Asst Lectr  
Canagaratne, S. G., BSc Asst Lectr

### Classics

- Amarasinghe, C. W., BA Lond., MA Camb.  
\*Prof

§ Member of the Association of Universities of the British Commonwealth



Saikat, A. K., MA PhD DLitt <i>Patna</i>	
Jayatilake, K. N., MA Camb., BA Lond & Ceyl.	(on leave) Lectr
Hingett, H. B., DPhil Oxon., BA	Lectr
Nannakkara, G. D. K., BA	Asst Lectr

**Physics**

Mallayagannan, A. W., OBE, MA PhD Camb., BSc Lond	*Prof
Appapūla, V., BSc PhD Lond.	Reader
Baliga, S. P., MA <i>Madr</i>	Reader
Muttucumarana, T. de S., DIC, BSc PhD Lond.	Lectr.
Kannanara, M. L. T., PhD <i>Maur</i> , BSc	Lectr.
Thambayahpillai, T., PhD <i>Maur</i> , BSc	Lectr.
Dissanayake, G. A., PhD Camb., BSc	Lectr.
Dahanayake, C., PhD <i>Brist.</i> , BSc	Lectr.
Fernando, P. C. B., BSc PhD Lond	Lectr.
Kunaratnam, K., BSc (on leave)	Asst Lectr
Jayarajna, C. W., BSc (on leave)	Asst Lectr
Jayaweera, K. O. I. F., BSc	Asst Lectr

**Sanskrit**

Wijesekera, O. H. de A., MA PhD Lond., DipOS <i>Sch. of O. &amp; A. Studies (Lond)</i>	*Prof.
Tilakasing, J., PhD Lond., BA	Lectr.
Jayasuriya, M. H. F., DU <i>Paris</i> , BA	Lectr.
Gunasirige, B. A. S., DU <i>Paris</i> , BA	Lectr.
Kurukkal, K. K., PhD <i>Poon</i> , MA	Asst Lectr.
Sundaramoorthy, G., BA <i>Amass</i>	Asst Lectr.

**Sinhalese**

Hettiaratchi, D. E., BA PhD Lond., MA PhD Ceyl.	*Prof
Saratchandra, E. R., MA PhD Lond	Prof.
Aripapala, M. B., BA PhD Lond.	Lectr.
Wijayarajna, D. J., BA PhD Lond.	(on leave) Lectr.
Fernando, P. E. E., MA PhD Lond.	Lectr.
Sri Ramenandala, M., MA PhD Lond	Lectr.
Kulasinga, A. S., DU <i>Paris</i> , BA	Lectr.
Silva, M. H. P., BA Lond., MA	Lectr.
De Silva, M. W. S., MA Lond., BA	Lectr.
De Saram, D. D., MA Lond.	(on leave) Asst Lectr
Rajasingum, M. A. D. A., BA	(on leave) Asst. Lectr
Wijayawardana, G. D., BA	(on leave) Asst Lectr
Dissanayake, R. R. W. D. M. J. B., BA	Asst Lectr

**Sociology**

Penna, R., BSc PhD Lond	Prof.
Jayasinga, D. L., BA <i>Syd</i> , PhD Lond.	Asst Lectr
Obeyesekere, G., BA	Asst. Lectr

**Tamil**

Kannapputhipallai, K., BA PhD Lond., Vidvan <i>Amass</i>	*Prof
Chelvanayagam, V., BA Lond., MA <i>Amass</i>	Lectr

Vethasanathan, S., PhD Lond., MA	Lectr.
Sathasivam, A., DPhil Oxon., MA	Lectr.
Tharangayarajasingham, S., BA	Asst Lectr
Velupillai, A., BA	Asst Lectr
Kalasapathy, K., BA	Asst Lectr

**Veterinary Science**

McGaughey, C. A., MA Camb., MSc	
DVSM <i>Maur</i>	*Prof
Brito-Babapulle, L. A. P., BSc (VetSc) Lond., DTVM <i>Edu</i>	
(Compar Anat & Vet Pharmacodynamics)	Lectr.
Seneviratna, P., PhD Lond., BVSc <i>Madr</i>	
(Vet. Med. & Parasitol)	Lectr
Jayasingho, J. B., PhD <i>Abad</i> , BVSc	Lectr
Wijewansa, E. A., PhD Lond., BVSc	
(Vet Pathol & Bacteriol.)	Lectr
de Silva, P. L. G., PhD Lond., BVSc	
(Animal Husbandry)	Lectr
Kodituwakku, G. E., DTVM <i>Edu</i> , PhD Lond., BVSc	(Clin. Vet. Surg.) Lectr
Fernando, S. T., BVSc	(on leave) (Vet Parasitol., Materia Medica & Therapeutics) Asst Lectr.
Fernando, S. D. A., BVSc	(on leave) Asst. Lectr

**Zoology**

Fernando, W., BSc PhD Lond.	*Prof
Cruick, H., BSc PhD Lond.	Lectr
Costa, H. H., BSc	Asst. Lectr.
Atudipragasam, K. D., BSc	Asst Lectr
Modder, W. W. D., BSc	Asst Lectr
Sethanathan, A. H., BSc	Asst Lectr
Breckenridge, W. R., BSc	Asst Lectr
Ratnayake, W. E., BSc	Asst Lectr

**DENTISTRY****Anaesthetics**

Vanniasingham, T. W., MB BS, FFARCS	Visiting Lectr.
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**Anatomy and Histology**

Wass, M. J., PhD <i>Manc.</i> , LMS	
(Gen. & Dent. Anat.)	Prof.
Jayawardana, F. L. W., PhD <i>Edu</i> , MB BS	(Gen. Anat.) Lectr.

**Bacteriology**

Chapman, T. E. D., PhD <i>DipBact Lond.</i> , MB BS	*Prof.
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**Dental Surgery**

Dissanayake, S. B., BDS, FDSRCS	
(also Orthodont.)	*Prof
Bartlett, G. C., MB BS, FDSRCS	Lectr.
Tillekanne, L., DSc <i>Pau</i> , LDS	Asst. Lectr.

**Medicine, General**

Obeyesekere, H. I., MD Lond., MB BS, MRCP	Visiting Lectr.
Weerasekera, P., MB BS, MRCP	Visiting Lectr

**Operative Dental Surgery and Orthodontics**

Dissanayake, S. B., BDS, FDSRCS (Dent Surg) Prof  
 Bartlett, G. C., MB BS, FDSRCS Lectr.

**Pathology**

Dissanayake, S. B., BDS, FDSRCS (Dent P.) Prof  
 Coomay, G. H., OBE, MD Lond. (Gen. P.) Prof  
 Bartlett, G. C., MB BS, FDSRCS (Dent. P.) Lectr.  
 Tennakoon, G. E., PhD Lond, MB BS (Gen. P.) Lectr.  
 Pinnabidike, R. G., PhD Lond, MB BS (Gen. P.) Lectr.

**Pharmacology**

Bibale, S. W., PhD Edin, MB BS \*Prof.  
 Kottegoda, S. R., BSc Lond., DPhil Oxon., MB BS Lectr.

**Physiology**

Koch, A. C. E., BSc Oxon, LMS \*Prof.  
 Baptist, N. G., BSc PhD Lond., FRIC (Biochem.) Reader

**Lecturers**

Wataon, R. S. S., PhD Lond, MB BS (Physiol)  
 Dissanayake, V., DPhil Oxon, MB BS (Physiol)  
 Wilmunayake, T. W., PhD Glas., MB BS (Biochem.)  
 Wijesundera, S., BSc DPhil Oxon., BSc Lond & Ceyl (Biochem.)  
 Karunaratnam, M. C., BSc Lond, PhD Edin. (Biochem.)  
 Janaz, H. D. W., BA Camb, LMS (Physiol.)  
 Hoover, Prof. A. A., BSc PhD Lond (Biochem.)  
 Nesarajah, M. S., MB BS (Physiol)

**Prosthetic Dental Surgery**

Bambaradeniya, K., LDS Lectr, Acctg Hd.  
 Savundranayagam, A., BDS, FDSRCS Ed Lectr.

**Surgery, General**

Sirwardene, M. H. G. K., MB BS, FRCS Visiting Lectr  
 Joseph, P. A. P., MB BS, FRCS Visiting Lectr

**ENGINEERING****Civil Engineering**

Perera, E. O. E., BSc Lond, BA Camb \*Prof  
 Sivaprasadarupilla, T., BSc BSc(Eng) Lond Lectr  
 de Silva, H. B., BSc MSc(Eng) Lond. Lectr.  
 Selvanayagam, P., DIC, BSc(Eng) Lectr.  
 Arumugam, K., BSc(Eng) PhD Lond Lectr.

**Electrical Engineering**

Paul, R. H., MA Camb, BSc Lond, MIEE \*Prof  
 Fernando, W. M. G., MSc(Eng) Lond. Lectr  
 Jayasekera, W. P., BSc(Eng) PhD Lond. Lectr.  
 Gunewardena, J. A., BScEngin, MIEE Asst Lectr.

**Mathematics**

Bartholomew, E. F., MSc Lond., PhD Camb. Lectr

**Mechanical Engineering**

Chinnappa, J. C. V., BE Madr., DIC, MSc(Eng) PhD Lond Prof  
 Mahalingam, S., BSc(Eng) PhD Lond Asst Lectr  
 Kusuppu, U. S., BSc (on leave) Asst Lectr  
 Jayatilake, C. L. V., BSc(Eng) Asst Lectr  
 Naguleswaran, S., BSc(Eng) Asst Lectr

**MEDICINE****Anaesthetics**

Lucas, A., LMS, FFARCS Visiting Lectr  
 Atiyagalle, D. C. M., LMS, FFARCS Visiting Lectr  
 Fernando, J. L. C., LMS, FFARCS Visiting Lectr

Richards, J. R., LMS, FFARCS Visiting Lectr  
 Ponnambalam, S., LMS, FFARCS Visiting Lectr  
 Perera, B. S., MB BS, FFARCS Visiting Lectr.  
 Gunaratne, C. M. H., MB BS, FFARCS Visiting Lectr.

Atiyagalle, L. M. V., MB BS, FFARCS Visiting Lectr.

**Anatomy**

Wase, M. J., PhD Manc, LMS \*Prof.  
 Jayawardene, F. L. W., PhD Edin, MB BS Lectr  
 Palle, W., DPhil Oxon., MB BS Lectr.  
 Jayatilake, A. D. P., MB BS Lectr  
 Navaratnam, V., MB BS Lectr.  
 Sumanasinghe, D. D., MB BS Lectr.  
 Bandaranayake, R. C. D. W. D., MB BS Demr.  
 Jayasekera, L. A. G., MB BS Demr.  
 Karunanathan, V., MB BS Demr.  
 Weemasinha, P. A., MB BS Demr.  
 Vijayaragavan, A., MB BS Demr.  
 Atanaliya, U., MB BS Demr.

**Bacteriology**

Chapman, T. E. D., PhD DipBact Lond., MB BS \*Prof  
 Aisselarsinghe, S. N., MB BS Lectr.  
 Abheyanatne, Miva Nalin, MB BS Lectr

**Biochemistry**

Hoover, A. A., BSc PhD Lond. \*Prof.  
 Baptist, N. G., BSc PhD Lond., FRIC Reader  
 Wilmunayake, T. W., PhD Glas., MB BS Lectr  
 Karunaratnam, M. C., BSc Lond, PhD Edin. Lectr.  
 Wijesundera, S., DPhil Oxon, BSc Oxon, Lond & Ceyl. (on leave) Lectr

**Visiting Lecturers**

Jegatheesan, K. A., PhD  
 Jayasinghe, J. C. N., PhD  
 Wickremasinghe, R. L., PhD  
 Wijesinghe, G. S., PhD

Senthushanmuganathan, S., PhD  
Watson, D. J., PhD

### Dermatology

Chelvarajah, T., LMS, MRCP Visiting Lectr

### Forensic Medicine

Fernando, H. V. J., MD Lond., MB BS \*Prof  
Rasasinghe, H., MB BS, MRCP Lectr  
Jayawardene, C. H. S., MB BS MA PhD Lectr  
Kodigoda, N., MB BS Lectr  
Abeywickrama, A. G., MB BS Temp. Lectr

### Infectious Diseases

Goonetilleke, C. V., LMS Visiting Lectr

### Leprosy

de Fonseka, P. J., LMS Visiting Lectr.

### Medicine

Ragunathan, K., MD LMS, MRCP \*Prof.  
Jayawardene, R. P., LMS MD MRCP Prof  
Wijekoon, Y. R. M. W. B., MB BS Registrar  
Peris, O. A., MB BS Res. Asst.  
Ratnayake, V. T., MB BS Registrar  
Gumwardena, D. A., MB BS Res. Asst.

Visiting Lecturers (Ward Classes, Tutorials,  
Clin. Med. & Pre-Clin. Med.)

Handy, G. R., OBE, MD Lond., LMS, MRCP  
Wilson, J. R., MD Lond., MRCP  
Medonza, M. O. R., MD, MRCP  
Attigalle, D. J., MD, MRCP  
Tharabellakumbura, R. S., MD, MRCP  
Wijesinghe, W., MD, MRCP  
Ratnayake, G. S., MD, MRCP  
Charumugam, D., MB BS, MRCP  
Goonewardena, P. E., MB BS, MRCP  
Peris, E. V., MD, MRCP

### Obstetrics and Gynaecology

Ranasinghe, D. A., LMS, FRCS, FRCOG \*Prof.  
Srinivasan, A., LMS, FRCS, FRCSEd, FRCOG Prof.  
Visvanathan, T., MB BS MOG, FRCSEd Lectr.  
Kumaraswami, H., Registrar  
Rajaratnam, P. D., LMS, FRCS, FRCOG Visiting Lectr.

Sivakulasingam, R., MB BS Res. Asst.  
Fernando, E. M., MB BS Res. Asst.  
Amarasingham, J. L., MB BS Tutor  
Talwatte, D. B. B., MB BS Tutor

### Ophthalmology

Devaditya, K. J. L. de S., LMS DOMS Visiting Lectr.  
Vythilingum, K., LMS DOMS, FRCS Visiting Lectr.  
Sivakumaran, P., LMS DOMS, FRCS Visiting Lectr

Pararajasegaram, R., DO Lond., LMS,  
MRCPed, FRCS, FRCSEd Visiting Lectr.  
Thambur, S. V., DOMS Visiting Lectr

### Orthopaedics

Silva, F., LMS, FRCS Visiting Lectr.  
Peris, R. B. J., MB BS, FRCS, FRCSEd  
Rasnayagun, V., MB BS, FRCS Visiting Lectr

### Otology, Laryngology, Rhinology

Rustomjee, R. C. J., LMS, FRCS Visiting Lectr  
Rasnayagun, V., LMS, FRCS Visiting Lectr

### Pædiatrics

de Silva, P. C. C., MD Lond., LMS, FRCP \*Prof.  
Gomes, W. J., MB BS, MRCP Lectr.  
Somadasa, D. A., MB BS Registrar  
Wijesundara, C. de S., MB BS DCH Tutor  
De Silva, Miss C. I., MB BS Res. Asst.

### Parasitology

Sivalingam, V., LMS, MRCP \*Prof.  
Dissanayake, A. S., PhD Lond., MB BS BSc Lectr  
Jayawardene, Miss Gladys L., PhD Lond., LMS Visiting Lectr.

### Pathology

Coutay, G. H., OBE, MD Lond \*Prof.  
Tennakoon, G. E., PhD Lond., LMS Lectr.  
Attigalle, Mrs Daphne, PhD Lond., MB BS Lectr  
Gunasirige, N. D., MD Edin. Lectr  
Yoganathan, Miss Mangayakumari, PhD DCP Lond., MB BS Lectr  
Panabakke, R. G., PhD Lond., MB BS Lectr.  
Ratnayake, W. D., MD DCP DPH Lond., MRCP Visiting Lectr  
Fernando, A. G., MB BS Demr.  
Seneviratne, E. M., E., MB BS Demr.

### Pharmacology

Babile, S. W., PhD Edin., MB BS \*Prof.  
Kottegoda, S. R., BSc Lond., DPhil Oxon., MB BS Lectr  
Lionel, N. D. W., MB BS, MRCP (on leave) Lectr.  
Balasubramaniam, K., MB BS Demr.  
Jayasingh, K., MB BS Temp. Lectr.

### Pharmacy

Bathurathana, N., BPharm Lond., BSc Lectr.  
de Silva, K. T. D., BSc Asst. Lectr.

### Physiology

Koch, A. C. E., BSc Oxon., LMS \*Prof.  
Watson, R. S., PhD Lond., MB BS Lectr.  
Bastayake, V., DPhil Oxon., MB BS Lectr.  
Jansz, H. D. W., BA Camb., LMS Lectr.  
Fonseka, C. C., MB BS Lectr  
Heemachchi, E. S. G., MB BS Lectr.  
Seneviratne, K. N., MB BS (on leave) Lectr.

Nesanyah, M. S., MB BS	(on leave) Lectr.	Yogasunderam, Y., MB BS	Tutor
Jayasinghe, B. P. P., MB BS	Demr.	De Zoysa, M. H., MB BS	Res. Asst.
Ramsingam, M., MB BS	Demr.	Xavier, J. T., MB BS	Registrar
Gunasaratnam, M., MB BS	Demr.	Maheswaran, S. K., MB BS	Registrar
Perera, L. D. D., MB BS	Demr.		

**Psychological Medicine**

Abeyawardene, A. L., LMS DPM

Visiting Lect.

**Public Health**

Abhayaratne, O. R. R., DrPh Haru.,

DPH Edin., LMS

de Fonseka, T. E. J., DPH PhD Lond.,

MB BS

\*Prof.

Ferreira, M. A., DPH Lond. &amp; Haru.,

DCH MB BS

(on leave) Lectr.

Weerasinghe, H. D., DPH Edin., MB BS

(on leave) Lectr.

**Radiology and Electro Therapeutics**

Peiris, Q., LMS

Visiting Lectr.

Fernando, H. K. T., MB BS

Visiting Lectr.

Jayasanne, D. D. A., MB BS Lond., LMS

Visiting Lectr.

**Surgery**

Paul, M. A., MS Lond., MRCP, FRCS

\*Prof.

de Fonseka, C. P., MS, FRCS

Prof.

Navaratne, R. A., MB BS, FRCS

Lectr.

Maheswaran, K., MB BS

Res. Asst.

Visiting Lecturers (Ward Classes, Tutorials,  
Clin. Surg., Pre-Clin. Surg. & Oper. Surg.)

Samarasinghe, G. S., LMS, FRCS

Cebrenal, S. A., MB BS, FRCS

Anthonis, P. R., LMS, FRCS

Bartholomew, L. N., MBE, LMS, FRCS

Austin, L. D. C., LMS, FRCS

Goonewardena, D. F. de S., LMS, FRCS,

FRCSed

Maso, C. J. L., LMS, FRCS

Perera, G. N., MB BS, FRCS

Samarasinghe, A. P., LMS, FRCS

Paul, A. T. S., LMS, FRCS, FRCSed

Jayasekera, K. G., LMS, FRCS

Peiris, T. D. H., MB BS, FRCS

Niles, N. A. J., LMS, FRCS

**Tuberculosis**

Wilson, J. R., MD Lond., MRCP

Visiting Lectr.

Senanayake, H. S. G. O., DCH DPH

Visiting Lectr.

Richard, A. M. D., TDD Madr., LMS

Visiting Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrars: M. D. G. Abeyaratne, BA,  
L. W. Madugalle, BA; G. J. Wijetunga, BA.  
Asst. Bursar: G. E. Peiris, BA. Admin. Asst.:  
W. M. A. Wijeratne Banda, BA. Univ. Med.  
Officers: H. P. A. Wijetunga, DTM&H Lond.,  
MB BS; M. S. Udumala, MB BS; E. H. C.  
Alles, MB BS DTM&H. Asst. Librarians:

K. D. Somadasa, MS Col., BA Lond., Mrs.  
Violet de Souza, BA DipLib Lond.; H. A. I.  
Goonetilleke, BA DipLib Lond., DipLibSci Madr.;  
S. Murugavel, BA. Dir. of Phys. Educn.:  
L. D. P. Abeyaratne, Instr. in Phys. Educn.,  
Shanti de Abrew, BA.

**GENERAL INFORMATION**

The Univ. was founded in 1942 by incorporation of the Ceylon University Coll., establd. in 1921, and the Ceylon Medical Coll., establd. in 1870. It occupies temporarily the premises of the two colls. in Colombo, but new bldgs. are being erected in Peradeniya, 4 mls. from Kandy, on the banks of the Mahaweli-ganga below the Royal Botanic Gdns. The facs of agric., arts, oriental studies and vet sci moved to Peradeniya in 1952, the general admin. in 1953 and the dental sch. in 1954. When the whole univ. is moved there it will become entirely residential. More land will be required for the facs. of med. and new facs. The main bldgs. are being erected to a plan formulated by Sir Patrick Abercrombie and C. Holliday.

**CONSTITUTION.** The corporation known as the Univ. of Ceylon (establd. under the Ceylon Univ. ordinance no. 20 of 1942) consists of the chancellor (the governor-general), the pro-chancellor (the minister of education), the vice-chancellor, the court, the council and the senate. Financial and

legislative control is vested in the court, which consists of the chancellor, pro-chancellor, vice-chancellor, members of the council, profs and other hds. of depts., reps. of the facs., gads., parliament and other bodies and certain nominated members. The council is the exec. body of the univ. In academic matters it acts on the advice of the senate, which in many matters acts on the recommendation of the facs.

Income (1960-61). Total, Rs. 11,191,709 (govt. grant, Rs. 9,123,410, fees and other sources, Rs. 2,050,299).

**FACULTIES AND DEPARTMENTS.** Agric. & vet. sci., Prof. C. A. McQuay (vet. sci.); agric., Prof. H. A. Passé (Engl.); agric., Prof. E. O. E. Perera (civil engin.); med., Prof. O. R. R. Abhayaratne (pub. health), oriental studies, Prof. K. Kanapathipillai (Tamil); sci., Prof. B. L. T. de Silva (bot.).

**LIBRARY.** Main libr. (now in Peradeniya) 140,000 vols.; sectional libs. attached to facs.

The univ. makes a grant to the Ceylon med. libr., which is used as libr. of fac. of med.

**LABORATORIES.** Sci. labs in Thurstan Rd., Colombo, and at Peradeniya, med. labs. in Kynsey Rd., Colombo, and at Peradeniya; dent. labs in Peradeniya.

**HOSPITALS.** Colombo General H., De Soysa H. and Castle Street H. for Women, Lady Ridgeway H. for Children and the Dental Inst. are teaching hosp. Med. students also use the Med. Res. Inst. and the Kalutara Public Health Centre.

**ADMISSION.** No one is eligible for admission to a degree course unless he has passed the entrance exam. of the univ. or an equivalent exam. The prelim. exam., which is held with the Ceylon Higher Sch. Cert. exam. in Dec. each yr., is treated as an entrance exam. Candidates for the prelim. exam. must have passed the (Ceylon) General Cert. of Educn. (ordinary level) exam. Min. age of admission to univ., 17 yrs.

**FIRST DEGREE.** 3 yrs.—BA gen., BSc gen., BScAgric, LLB; 4 yrs.—BA spec., BSc spec. BA spec. may be taken in Arabic, Buddhist civilisation, econ., geog., Greek, hist., Latin, matha., Phil., philos., Sanskrit, Sinhalese, social, Tamil, western classical culture, western classics; BSc spec. in bot., chem., matha., phys., zool.; 5 yrs. from univ. entrance exam. or 4 yrs. from first exam.—BDS; 6 yrs. from prelim. exam. or 5 yrs. from first exam. (which may be taken from sch.)—MB BS.

**HIGHER DEGREE.** MA or MSc, a yrs. PhD, 2 yrs. Degrees of DLitt, LLD, DSc, MD, MS, MOG for grade. of the univ. only.

**HONORARY DEGREE.** DLitt, DSc, LLD, MA.

**EXTERNAL DEGREE.** awarded in arts and sci. only. Duration of courses same as for internal degrees.

**DIPLOMAS.** Educn., 1 yr., anesth., 9 mos., child health, 6 mos.; med. & surg., 1 yr.; obstet., 6 mos.; tropical med. & hyg., 6 mos.; tuberculous dis., 6 mos.

**PRINCIPAL BENEFACTIONS.** Rs. 207,293.56 for vet. sci. bldg. from Canadian aid, Rs. 504,158.88 for work in facs. of agric. and engin. from U.S. and

**REIGNATIONS.** Dr. N. Patricius Fernando (med.); Dr. S. Arisaratnam (hist.); Dr. K. S. Gangadharan (maths.); B. Mendes (philos.); V. A. Muringesampillay (law); Fr. X. S. Thangayyan (educn.); Dr. U. Pathiyagoda (bot.); Dr. D. Chang (Engl.); P. H. de S. Wikramaratna (civil engin.).

#### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3084	24
Women	1537	10
Total	4621	34

**CERTIFICATION.** 1-yr. course provided for higher cert. in dent. surg.

**FEES** (Rs. 13 = £1). No tuition, exam. or degree fees for citizens of Ceylon who are not repeating courses or exams. For others, tuition fees are: arts, Rs. 150; sci., Rs. 225; med., Rs. 225. Every student pays a registration fee of Rs. 30 p.a.

**ACADEMIC YEAR.** 3 terms. July to Sept., Oct. to Dec., Jan. to March.

**THE LANGUAGE OF INSTRUCTION** in all facs. is English, but courses in Sinhalese and in Tamil are given in those langs.

**POSTGRADUATE AWARDS.** Hilda Obeyesekere res. fellowships (one or more), annual value not less than Rs. 4800, E. W. Gunaratne res. fellowship in Theravada Buddhism, Rs. 3000 for 3 yrs.

**RESIDENCE.** Colombo for men—College House (tel. Colombo 781835), Bloemfontein (tel. Colombo 91780), for women—Women's Hostel (tel. Colombo 91291). Warden of residences, Dr. E. H. C. Alles. Fees for all Colombo residences, Rs. 85 per month.

**PERADENYA** (tel. Univ. Exchange Kandy, unless otherwise stated) for men—Arunachalam Hall (tel.: ext. 234), warden, Dr. M. H. F. Jayasunya, Jayatilaka Hall (tel.: ext. 233), warden, J. D. Dhirasekera; Marie Hall (tel.: ext. 252), warden, Dr. B. A. Baptista, Juma Petrus Hall (tel.: ext. 230), warden, Dr. K. N. Jayatilake, Marcus Fernando Hall (tel.: ext. 209), warden, Dr. P. Senewiratne, for women—Hilda Obeyesekere Hall (tel.: ext. 225), warden, Miss Kamalath Mathaparanam, Ramanathan Hall (tel.: exts. 261, 279), warden, Mrs. Vajna Cooke, Sanghamitta Hall (tel.: ext. 242), warden, Dr. Ram Aluvihare. Fees for all Peradeniya halls of residence, Rs. 220 per term.

**PUBLICATIONS.** *Colombo* (annual), Rs. 5, *Annual Report of the Council* (not for sale).

**UNIVERSITY PRESS** undertakes most printing work of the univ. Supervisor: H. B. Perera.

## THE YEAR 1961

**Distribution by Faculties.** Agric., 19, arts, 2414, engin., 191; law, 22; med., 1011, nat., 977, vet. sci., 21. Total: 4655.

*Included in the figures above are:—*

Postgraduate students, 94.  
New admissions, 1802 (incl. 698 external).  
Students from other countries, 7.

**DEGREES AWARDED (1960-61).** Agric., BSc (Agric), 10. Arts, BA, 311; MA, 5. Engin., BSc (Engin), 42. Law, LLB, 17. Med., MB BS, 115, MD, 3. Sci., BSc, 126. Vet. sci., BVSc, 3. Total number of first degrees awarded, 623.

**DIPLOMAS AWARDED (1960-61).** DipEd, 71; DTM&H, 3.

# VIDYALANKARA UNIVERSITY OF CEYLON§

Founded 1959

Postal Address: Kelaniya, Ceylon  
Cables and Telegrams: University, Kelaniya, Ceylon  
Telephone: Colombo 6849

CHANCELLOR—H E, THE GOVERNOR-GENERAL OF CEYLON  
PRO-CHANCELLOR—THE MINISTER OF EDUCATION  
VICE-CHANCELLOR—VEN. K. PANNASARA, LL.D. Ceyl.  
REGISTRAR—W F. ARDAYARDON, MA Ceyl.  
ACCOUNTANT—A PANDYARATNE

## TEACHING STAFF

[† = Part-Time, \* = Hd. of Dept.]

### Buddhist Studies

Sari Sivoli, Ven. B  
Buddhadatta, Ven. P  
Chandawimala, Ven. R  
Dhammawansa, Ven. K  
Suddhanta, Ven. B  
Gunasaratna, Ven. M  
Amarasinghe, Ven. W., MA Ceyl.  
Vijayapala, D. G. O., BA Lond., MA Ceyl.  
Gunaratana, Ven. P., BA Ceyl.  
Gunatilleke, R. A., BA Ceyl.  
Karunadasa, Y., BA Ceyl.  
Marasinghe, M. J., BA Ceyl.  
Coorey, H. S., BA Ceyl.

\*Prof. Ariyaratne, G. P., MA Alld.  
Prof. Summanee, A. M. G., BA Lond.  
Prof. Attigalle, R. C. L., BA Ceyl.

\*Lectr.  
Asst. Lectr.  
† Lectr.

### Geography

Peera, M. P., MA Ceyl.  
de Silva, G. L. R., BA Lond.  
Gunawardena, R. S., BA Ceyl.  
Abersekera, D. G., BA Ceyl.

\*Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Hindi

Kausalyayana, Ven. A.

\*Prof.

### History

Ray, H. C., MA Cale., PhD DLitt Lond.  
Liyantegunage, A., BA Ceyl.  
Anders, W. M. D. D., BA Lond. & Ceyl.

\*Prof.  
Asst. Lectr.

### Economics

Kolegama, J. B., DPhil Oxon.  
Ratnakara, T., BA Ceyl.  
Mendis, L. P., BA Lond. & Ceyl.  
Dhamasena, K., BA Ceyl.  
Kausalyayana, K. P. V., BA Ceyl.  
Rasaputram, W., BA Ceyl.  
Karandawala, P. B., BA Ceyl.  
Uswatte Aratchi, G., BA Ceyl.

\*Prof.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.  
† Lectr.  
† Lectr.

Kannangara, P. D., BA Ceyl.  
Renuwella, G. S., BA Ceyl.  
Kotikawala, D. A., BA Ceyl.

Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Mathematics

Kodikara, M. C., MA PhD  
Wickramaratne, S. B. P., BA Ceyl.  
Somadasa, H., BA Ceyl.

\*Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Education

Dissanayake, K. W., BA Lond., BEd Melb.

\*Lectr.

Alagiyawanna, K. L. V., MA LL.D. Lond.  
Ratnasara, Ven. H., BA Ceyl., MA Col.

Lectr.  
Asst. Lectr.

Wasinghe, D. M. E. S., BA Ceyl.

Asst. Lectr.

### Pali

Pannasakara, Ven. K.  
Premaratana, Ven. E.  
Dhammaloka, Ven. H., BA Ceyl.  
Gunasekara, A. H. S., BA Ceyl.  
Jayasuriya, A. A., BA Ceyl.

\*Prof.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

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Philosophy		Sinhalese	
Sankhyayana, Pdr. R. de Silva, P., BA Ceyl	*Prof Asst Lectr	Pannakitti, Ven. K. Siddhartha, Ven. M. Sumanajoti, Ven. D. Jayasekara, A., MA Calc. Tillekaranne, M. P., BA Ceyl Kalanagoda, L., BA Lond. & Ceyl.	*Prof. Lectr. Lectr. Lectr. Asst. Lectr. Asst. Lectr.
Sanskrit			
Sastri, S. B., DPhil Leyp. Ratnasena, Ven. M., BA Ceyl Kekulawala, S. L., BA Ceyl.	*Prof Lectr. Asst Lectr.		

## ADMINISTRATIVE AND OTHER STAFF

ASSISTANT REGISTRAR. H. M. Tissera, BA Ceyl

LIBRARY Librarian: Ven. N. Pannakara  
Dep. Librarian: Ven. M. Panasseri. Asst. Librarians: Ven. P. Aranda, T. G. Piyadasa, BA Calc., P. A. Piyasena, BA Ceyl.

HEALTH SERVICE Hon. Univ. Med. Officer: V. T. Perera, MB BS Ceyl.

RESEARCH DEPT. Dir.: Ven. Y. Pragnanama, LL.D Ceyl. Res. Assts.: S. G. M. Weerasingha, PhD; K. C. Perera, BA Ceyl., H. T. Basnayake, BA Ceyl., A. Weerasingha, BA Ceyl.

EXAMS BRANCH. Supt. of Exams: K. D. de Lamerolle. Dep. Supt. of Exams: Ven. G. Pannaratana. Asst. Supt. of Exams: Ven. P. Mahinda.

## AFFILIATED INSTITUTIONS

Affiliated to the univ. are 15 Pirivenas (inns. of oriental studies) whose students are eligible to sit the exams. of the univ. as internal students.

## GENERAL INFORMATION

The Vidyalandara Pirivena had from small beginnings in 1873 gradually developed into an important seat of learning which produced several eminent scholars. In recognition of the contribution made to the cause of educn. and natl. culture during 84 yrs., the Pirivena was raised to univ. status as the Vidyalandara Univ. of Ceylon which was establd. on Jan. 1, 1959, by act of parliament.

The univ. is situated in a suburb 6 miles N. of Colombo, the capital of Ceylon.

CONSTITUTION. The chancellor, pro-chancellor, vice-chancellor and the members for the time being of the court, the council and the senate form the corporation known as the Vidyalandara Univ. of Ceylon.

INCOME. At present the univ. has no endowments and is financed by an annual govt. grant.

FACULTIES. Arts, Buddhist studies; languages; philosophy. A fac. of sci. is planned for 1964-65.

UNIVERSITY PRECINCT. There is no room for development in the present precinct of about 10 acres of land, pt. of which is low-lying and unsuitable for bldg. purposes. The bldgs. for the sec. fac. are therefore being constructed in a spacious block of land about a mile distant from the present precinct.

LIBRARY. About 20,000 vols. The sci. depts. will have a sep. library.

THE LANGUAGE OF INSTRUCTION is Sinhala. English is taught as a 2nd lang. to all students who have not passed in the subj. at the exam. for the Ceylon General Cert. of Educn.

STUDENTS. There are 743 students at present in the univ., about 25 per cent. of whom are provided with residential accomm. in hostels. 36 students have after a 3-yr. course of study passed the final exam. held for the 1st time and were eligible to receive the BA degree at the gen. convocation in Sept. 1962.

# VIDYODAYA UNIVERSITY OF CEYLON

Founded 1959

Previously Vidyodaya Pirivena, established 1873

Postal Address : Gangodawila, Nugegoda, Ceylon

Cables and Telegrams : Vidyodaya University, Nugegoda, Ceylon

Telephone : Nugegoda 395

PATRON—Ven P. SRI SARANANKEARA Maha Nayaka Thero, Ven. Y DHAMMARATANA Maha Nayaka Thero

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF CEYLON (ex officio)

PRO-CHANCELLOR—THE MINISTER OF EDUCATION (ex officio)

VICE-CHANCELLOR—Tilputaka Vagilewarscharya Ven. W. SORATA Nayaka Thero, Hon. DLitt Vidyal. & Ceyl

REGISTERAR—D. J. KUMARAGE, MBE, BA Lond

LIBRARIAN—Ven W. AMARAMOLI Nayaka Thero

## TEACHING STAFF

[ ] = Part-Time ; \* = Hd of Dept., 'Maha Nayaka Thero', 'Nayaka Thero' and 'Thero' = religious titles

<b>Anthropology</b>		<b>Burmese</b>	
Deraniyagala, P. E. P., MA Camb., AM Hare, Hon DSc	*Prof	1 Visiting Lectr	
1 Visiting Lectr.		<b>Economics, Public Administration and Business Administration</b>	
<b>Archaeology</b>		Muketu, K. P., LLB MA Calc, PhD Heidel	*Prof
Sorata Nayaka Thero, Ven. W., Hon. DLitt Vidyal. & Ceyl	*Lectr	De Silva, D., BSc Indiana, MSc Ill.	Lectr
Aryasinghe, A., BA Lond., MA Ceyl.	Lectr	Tillakaratne, S., BA Ceyl	Lectr
Calders, L.	†Lectr.	Salgado, M. R. P., BA Ceyl, PhD Camb.	1 Lectr
1 Visiting Lectr		Tillakaratne, W. M., BA Ceyl, PhD Lond.	1 Lectr.
<b>Ayurveda</b>		Samaraswera, D. E. A. S.	†Lectr.
Wickramaratna, G. P., Ayurveda Chakravarti	*Prof	Karunatilaka, H. D. B., BA Ceyl	Asst. Lectr.
		Perera, K. A. D., BA Ceyl	Asst. Lectr
<b>Buddhism : Mahayana</b>		De Silva, K. T. R., BA Ceyl.	Asst. Lectr
Ananda Maitriya Maha Nayaka Thero, Ven. B	*Prof	Munasinghe, K. A., BSc(Econ) Lond	Res Asst.
Sobitha Thero, Ven K., BA Lond., MA Bas.	Lectr	8 Visiting Lectrs	
<b>Buddhism : Theravada</b>		<b>Education</b>	
Wimaladhamma Nayaka Thero, Ven P	*Prof	Hewage, L. G., BA Lond., MA Ceyl.	*Lectr.
Gunasiri Thero, Ven. M., BA Lond	Lectr	Arampatia, D., MA Ceyl	Lectr.
4 Visiting Lectrs.		<b>English</b>	
<b>Buddhist Civilization</b>		Gonsalves, L. L. K., BA Lond	*Prof.
Khemawansa Thero, Ven G., BA Ceyl	*Visiting Lectr.	Gunawardena, A. J., BA Ceyl	Asst. Lectr.
Weerasinghe, D. A., BA Ceyl	Asst. Lectr.	Goonatilaka, D. C. R. A., BA Ceyl.	Asst. Lectr.
		8 Tutors	
		<b>Geography</b>	
		Perera, P. D. A., BA Ceyl.	*Lectr.

† Member of the Association of Universities of the British Commonwealth

Perera, N. P., BSc Ceyl. Asst. Lectr  
Attanayake, S. C. A. B., BA Ceyl. Asst. Lectr  
1 Visiting Lectr

**Hindi**

2 Visiting Lectrs

**History**

Purussastana Nayaka Thero, Ven. H. \*Lectr  
Ellawala, H., BA Ceyl., MA Ban. Lectr

(on leave)

Edirisingha, G. C., BA Lond. Lectr

Dassanayake, K. M. W. S., BA Lond., LLB Ceyl. Lectr

Perera, B. C., BA Ceyl. Lectr

Vedago, D. A., BA Lond. Lectr

Rohanadeera, M., BA Lond. & Vidyod. Lectr

Sumanawimala, D., BA Ceyl. Asst. Lectr

Kotalawala, D. A., BA Ceyl. Asst. Lectr

Wickremaratna, L. A., BA Ceyl. Asst. Lectr

4 Visiting Lectrs

**Jyotish**

1 Visiting Lectr

**Mathematics**

Samaratna, K. T. S., BSc Ceyl. Asst. Lectr

1 Visiting Lectr

**Pali and Pali**

Pannasekita Maha Nayaka Thero, Ven. K. \*Prof. Lectr

Perera, K. J., MA Ceyl. Lectr

Indaratana Thero, Ven. W., BA Ceyl. Asst. Lectr

Perera, L. P. M., BA Ceyl. Asst. Lectr

5 Visiting Lectrs, 3 Tutors

**Philosophy: Indian**

Vignanesa Nayaka Thero, Ven. P., PhD Camb. \*Prof.

Abhayasinghe, S. Asst. Lectr

Gosaratana Thero, D., MA Madras. Asst. Lectr

**Philosophy: Western**

Shahdeen, A. M. M., BA Ceyl. \*Visiting Lectr

1 other Visiting Lectr

**Sanskrit and Philosophy**

Palihawadana, M., MA Ceyl. \*Lectr

Rajapetara, T., MA Ceyl. Lectr

Weerasingha, S., BA Ceyl. Asst. Lectr

3 Visiting Lectrs

**Science**

Goonewardena, D. C., BA MSc Lond., DipEd Owa. \*Prof.

Nanayakkara, G. N., BSc Lond. Lectr

Ramanayaka, V. K. A., BSc Ceyl. Asst. Lectr

Perera, H. W., BSc Ceyl. Demr

**Sinhala**

Wimalabuddha Thero, Ven. B., BA Ceyl.

(on leave) \*Prof. Lectr., Actg. Hd.

Sumanawimala, A. V., MA Ceyl. Lectr.

Kangaherachchi, T. B., BA Ceyl. Lectr

Vitarana, V. H., MA Lond. Lectr

Narasimha, D. F., MA Lond. Lectr

Ratnapala, B. N., BA Ceyl. Asst. Lectr.

5 Visiting Lectrs, 1 Tutor

**Tamil**

Uwase, M. M., MA Ceyl. \*Visiting Lectr.

3 other Visiting Lectrs

**ADMINISTRATIVE AND OTHER STAFF**

Dep. Registrar: H. W. Gunasekera, JP. Dir. of Exms.: A. W. Kalunsekke. Asst. Registrar: B. H. Dassanayake, BA Ceyl. Asst. Dir. of Exms.: K. F. G. Wijayasekera, BA Ceyl. Supt. of Exms.: N. P. S. Sumanasekera, BA Lond. Asst. Librarian: Ven. M. Sumanayaka Thero, W. B. Darshana Thero, BA Ceyl. (on

leave), P. Abeysekera, BA Ceyl.; D. L. Kuuppu, BA Lond. Dir. of Research: Ven. P. Jinaratna Nayaka Thero. Res. Assts.: Ven. T. Pavanakitti Thero, Ven. H. Dharmadasa Thero; Ven. G. Sumanakara Thero. Accountant: A. Abeyaratne. Asst. Accountant: L. H. Buddhadasa.

**AFFILIATED INSTITUTIONS**

(together with names of Principals)

Sri Lanka Vidyalyay, Colombo 10 (Ven. B. Wimalawansa Thero); Samarasiri Pirivena, Kandy (Ven. A. Rajaguru Sri Wipasha Anandayaka Thero); Vidyaloka Pirivena, Galle (Ven. A. Nandadasa Thero); Vidyavandana Pirivena, Gampaha (Ven. G. Wimalaratana Thero); Sri Dharmapala Pirivena, Bellana (Ven. B. Gnanawimala Thero); Nalanda Pirivena, Horana (Ven. H. Pannaratana Nayaka Thero); Sri Sumanayaka

Pirivena, Matugama (Ven. O. Wajragunasa Thero); Vidyantika Pirivena, Kamburupitiya (Ven. N. Ratnapala Thero); Vidyavandana Pirivena, Baddegama (Ven. N. Sumanas Thero); Vidyavandana Pirivena, Dikwella (Ven. D. Wimaladasa Thero); Shastralankara Pirivena, Palimatalawa (Ratnade Anandadasa Thero); Vidyachodaya Pirivena, Polgahawela (Ven. K. Sri Ratanaajothi Nayaka Thero); K/Sri Vidyatilaka

Parvanna, Weuda (Ven U Pemasanda Thero), Sudharmasankara Parivana, Diyatalawa (Ven D Sumanasara Nayaka Thero); Sri Sudharmasara Parivana, Haliela (Ven K Sumanasara Thero), Sri Rasesasara Parivana, Baddegama (Ven G Saranankara Thero), Sri Sudhartha Parivana, Mirissa (Ven K Sri Nirva Nayaka Thero), Jayamalavahara Parivana, Matara (Ven K Dewamanda Thero), Vidyadeva Parivana, Mahima (Ven B Panyasanda Thero), Rupa Asana Jeta Parivana, Pelmadulla (Ven H. Dharm-

marakkhita Thero), Sri Buwinnakola Parivana, Gampola (Ven K Gnanananda Thero), Shastredaya Parivana, Sandalankara (Ven T Dharmasanda Thero); Shastredaya Parivana, Ambalangoda (Ven A Dharmakulasala Thero), Sri Vidyajaya Parivana, Galle (Ven P Padamajothi Thero), Mahanuwara Mahavahara Parivana, Kandy (Ven H Sri Sumanasara Thero), Sri Indrasara Parivana, Kerdikawala (Ven K Panyasanda Thero), Subhadrasara Parivana, Nugegoda (Ven G Anonadhasa Thero)

## GENERAL INFORMATION

The Vidyodaya Univ of Ceylon came into existence on Jan. 1, 1959, on the enactment of the Vidyodaya and Vidyasankara Univs Act No. 45 of 1958. The Univ was formally inaugurated on Feb. 18, 1959, at a ceremony presided over by the chancellor of the Univ. The nucleus of the Univ was Vidyodaya Parivana of Mahagankanda, Colombo, which was founded in 1873 by the late Ven Hikkadure Sri Samanagala Nayaka Thero with the assistance of the Vidyodaya Sabha formed to promote and disseminate the knowledge of Buddhism and oriental authors among both Ceylonese and foreigners. This instn was for 86 yrs the premier seat of Buddhist and oriental learning in Ceylon. It was in recognition and appreciation of the work done by this instn that it was raised to Univ status in 1959.

**CONSTITUTION.** The corporation known as the Vidyodaya Univ of Ceylon is made up of the chancellor, the pro-chancellor, the vice-chancellor, the council and the senate. *Ex officio* the govt.-general of Ceylon is chancellor and the minister of education is pro-chancellor. The vice-chancellor is an eminent Buddhist scholar appointed by the chancellor on the recommendation of the court. He is the principal executive and academic officer of the Univ. Financial and legislative control is vested in the court. The council and the senate are the exec and academic bodies respectively.

**INCOME.** (1960-61) Total Rs 3,264,811 (govt grant, 96.9 per cent; other sources, 3.1 per cent).

**FACULTIES AND DEANS.** *Actg.* Prof. P. E. P. Deraniyagala (anthropol.), *Buddhism*, Ven. Prof. P. Wimaladhamma Nayaka Thero (B. Theravada); *lang.*, Ven. Prof. K. Pannasakera Maha Nayaka Thero (Pali & Prakrit), *philos.*, Ven. Prof. P. Vajraguna Nayaka Thero (p.: Indian), *sci.*, Prof. G. P. Wickramaratne (Ayurveda).

**UNIVERSITY PRECINCT.** In Oct. 1961, the Univ moved to its new campus of about 33 acres at Gangodawila, about 8 miles from Colombo. (More land is being acquired to bring the total to 50 acres.) Bldg operations had begun about a yr earlier and several bldgs. are nearing com-

pletion. The bldg programme may take about 5 yrs to complete.

**LIBRARY.** 25,000 vols.

**LABORATORIES.** Bot., chem., phys.

**ADMISSION.** Applicants for admission must sit the Univ. entrance exam. for which those with (Ceylon) General Cert of Educn. (ordinary level) or equivalent are eligible to appear. Those who have passed the inter. exam. as internal students of a recognized Univ. may be admitted to the gen. degree course. Min. age of admission to Univ., 17 yrs. Only males are admitted as internal students.

**FIRST DEGREE.** 3 yrs. from Univ. entrance—BA gen., 4 yrs. from Univ. entrance—BSc, BA hon.

**Subjects for BA gen.:** anthropol., archaeol., Ayurveda, Buddhistharmas, bus. admin., Ceylon hist., econ., Engl., geog., Hindi, Indian hist., Indian philos., Jyotish, maths., Pali, physiol., pol., Prakrit, pub. admin., Sanskrit, Sinhala, sociol., Tamil, western philos., world hist. **Subjects for BSc:** appl. maths., bot., chem., geog., phys., pure maths.

**BA hon.** may be taken in archaeol., Buddhistharmas, bus. admin., econ., hist., Pali, pub. admin., Sanskrit, Sinhala, western philos.

**HIGHER DEGREE.** 2 yrs.—MA in Buddhistharmas, Pali, Sanskrit, Sinhala, Ph.D.

**HONORARY DEGREE.** Agamas Chakravarti, Ayurveda Chakravarti, D.Litt., DSc, Ph.D., MA.

**RESEARCH.** There is a sp. res. dept. and res. assis. are attached to certain depts. of study. Reference to res. activities undertaken during yr. is made in vice-chancellor's annual report to Univ. court.

**STUDY LEAVE.** There is provision to grant study leave of up to a yrs. for officers and teachers during period of probation. Thereafter, one term of study leave for every 11 terms of service.

**FEES.** Tuition free to all students. Registration fee of Rs. 15 payable by internal students annually and by external students for each exam.

Exam. fees payable by external students for every exam., internal students only after 1st attempt  
Also union fees and lab. fees

USUAL LANGUAGE OF INSTRUCTION is Sinhala, but there are facilities for non-Sinhala candidates to study certain subjs. in English.

### THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed:* 'Sri Ganeswara Mandira' (a 3-storeyed classroom block)

RESIGNATIONS *DI, A. W. P. Guruge* (admin. asst. to vice-chancellor; prof. of Sanskrit), *S. F. de Silva* (dean, fac. of arts, prof. of hist.); *D. M. Herikachchi* (prof. of educn.).

HONORARY DEGREES *D.Litt.*—*H. E. Sithu* Dr. Hen Aung, formerly vice-chancellor of Univ. of Rangoon, minister plenipotentiary & envoy extraordinary of union of Burma in Ceylon, Dr. C. W. W. Kannangara, former minister of educn.

#### Statistics

##### STUDENT NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>	<i>External</i>
Men	877	228	213
Women	—	—	148
Total	877	228	361

DEGREES AWARDED (1961-62). Arts, 10; Buddhism, 12; lang., 11.

# EAST AFRICA

<i>Kenya</i>	University of East Africa (p. 426)
<i>Tanganyika</i>	Royal College, Nairobi (p. 428)
<i>Uganda</i>	University College, Dar es Salaam (p. 431)
	Makerere University College (p. 433)

# UNIVERSITY OF EAST AFRICA

Postal Address: P.O. Box 44, Entebbe, Uganda, East Africa

Cables and Telegrams: University, Entebbe

Telephone: Entebbe 881

CHAIRMAN OF THE PROVISIONAL COUNCIL—Sir DONALD MACGILLIVRAY, GCMG, MBE

VICE-CHANCELLOR DESIGNATE—Sir BERNARD DE BUNSEN, CMG, MA Oxon

REGISTERAR DESIGNATE—L. M. YOUNG, MA S.A., PhD Camb

## CONSTITUENT COLLEGES

*The following instns. will be associated in the Univ. of E. Africa as constituent colls. —*

*Kenya*—ROYAL COLLEGE, NAIROBI see p. 428.

*Tanganyika*—UNIVERSITY COLLEGE, DAR ES SALAAM: see p. 431

*Uganda*—MAKERERE UNIVERSITY COLLEGE: see p. 423.

## GENERAL INFORMATION

The creation of a Univ. of E. Africa was first proposed in 1958 by the working party on higher education in E. Africa led by Dr J. F. (now Sir John) Lockwood, master of Balliol Coll., Univ. of London. After acceptance in principle by the Inter-University Council for Higher Education Overseas, the 3 E. African govts and the coll. councils, the proposal was confirmed by the white papers issued by the E. African govts in 1959 and by the quinquennial advisory cttee. on higher education in E. Africa (1960). Great interest was also expressed by the conference on E. African education called at Princeton, New Jersey, in December 1960, by the American Council on Education, which gave the scheme its full support.

A provisional council has been functioning since June 1961, with the object of establishing an examining and degree-granting Univ. of E. Africa, consisting of the existing colls. (about which information is given below on pp. 428-437): the Royal Coll., Nairobi; the Univ. Coll., Dar es Salaam; Makerere Univ. Coll. This council is fully supported by the 3 univ. colls. and by the govts of Kenya, Uganda, Tanganyika and Zanzibar; by the Inter-University Council for Higher Education Overseas; and by the Africa Liaison Cttee. of the American Council on Education.

It is hoped that the Univ. of E. Africa will come into being on July 1, 1963, by an enactment of the central legislative assembly of the E. African common services organisation. The univ. will award its own degrees, the standard and recognition of which will be safeguarded in a number of ways.

The constituent colls. will retain their respective identities and will make their own academic appts., though with univ. representation in the selection of profs., readers and hds. of depts. In general, the colls. will remain responsible for the teaching and res. work of the univ., while enjoying and benefiting from a broader academic assocn.

The secretary to the provisional council and registrar designate of the univ. is occupying office at present in Entebbe, provided by the Uganda govt.

**CONSTITUTION** The constitution of the univ. has not yet been finally adopted, but the following is the form proposed.

The univ. will consist of the chancellor, vice-chancellor, principals of the constituent colls., council, senate and convocation (in which grad. of the univ. will predominate); the members of the councils of the constituent colls.; certain officers of the univ. and of its colls., the profs., lects. and other teachers of the constituent colls., and the students of those colls.

The chancellor, to be elected by a constituency comprising convocation and the councils of the univ. and its constituent colls., to be hds. of the univ. and, as such, to be empowered, in name of univ., to confer all degrees. The vice-chancellor, chosen for a 3-yr. term from among principals of constituent colls., to be *ex-officio* chairman of senate and to exercise gen. supervision over academic affairs of univ.

The govt. of univ. to be vested in a council with lav. representation from the 3 E. African

territories, the councils of the constituent colleges and academic representatives from the academic bodies of the colleges. Council to appoint members from univ. and educn. orgns. outside E. Africa, and convocation eventually to elect 3 members.

The senate, responsible for academic matters, to consist of the principals of the constituent colleges, the deans of the univ. facs. and members elected by the college academic bodies.

**ADMISSION** (see also separate colleges). For registration as candidates for 1st degrees of the univ., min. requirements will approximate to those of British univs. and include passes at advanced level in 2 subs. in G.C.E. or its equivalent, with particular groupings of 'A' level passes for admission to certain professional schools. Provision will also be made for 'mature age' entry for selected candidates over age of 25.

**FIRST DEGREES** (see also separate colleges). BA—3 yrs.; BSc—3 yrs. For either of these degrees,

candidates will offer 3 subs. in the 1st yr. Thereafter, there will be 3 alternative routes to the degree: (a) 2 subs. in each of the 2nd and 3rd yrs., or (b) 2 subs. in 2nd yr. and 1 sub. in 3rd yr., or (c) 1 sub. in both 2nd and 3rd yrs. Honours will be awarded to any candidate attaining a prescribed standard in the final exams, whatever the type of curriculum.

The structure of 1st degrees in the professional schools (agric., educn. and med. at Makerere Univ. Coll.; engin., archit. and vet. sci. at the Royal Coll.; law at the Univ. Coll., Dar es Salaam) is under consideration.

**HIGHER DEGREES**. Provision will be made for master's degrees, for a PhD in all facs., and for 2nd doctorates.

**DIPLOMAS, CERTIFICATES, ETC.** The univ. will itself award dipl. and certs. in certain fields, but the constituent colleges will retain the right of making other college awards of this nature.



## KENYA

[Information compiled as at 14/6/62]

## ROYAL COLLEGE, NAIROBI\*

Founded 1961

Postal Address P.O. Box 30197, Nairobi, Kenya, East Africa

Cables and Telegrams Rotocen, Nairobi, Kenya

Telephone Nairobi 27741

VISITOR—SIR PATRICK RENISON, KCMG

CHAIRMAN OF COUNCIL—SIR PHILIP ROGERS, CBE

PRINCIPAL—J. M. HYSLOP, MA DSc Glas, PhD Camb

VICE-PRINCIPAL—H. P. GALLS, OBE, BA PhD Lond., DipEd Camb., FRHistS

TREASURER—J. R. INDER

REGISTRAR—R. B. EUSTACE, MA Camb

FINANCE OFFICER—J. R. TOVILL

LIBRARIAN—D. A. R. KEMP, BA Durh, FLA

## TEACHING STAFF

Accountancy		Chemistry	
Ellmer, R. E., MA Camb	St. Lectr.	Roberts, P. A., PhD Lond.	Prof., Hld. of Dept
Alderson, J. A.	Lectr.	Harbin, G. A., BSc Lev.	Lectr.
		Desai, N. C., MSc Bom., PhD Lond.	Lectr.
		Odhumbho, D., BSc Brest	Asst. Lectr.
Architecture		Civil Engineering	
le Breton, T. P.	St. Lectr.	Jones, R., PhD Leeds, MICE	Prof., Hld. of Dept
Price, J. C. B., BA Lond.	Sr. Lectr.		
Morgan, D. L. D.	Lectr.	Vivian, C. P., BSc(Eng) Lond.	St. Lectr.
Munday, M. G.	Lectr.		St. Lectr.
Waldock, B. D.	Lectr.	Campbell, P. A., BSc Rand	Lectr.
Bull, E.	Lectr.	Agnew, S. C., BSc(Eng) Lond., MSc Leeds	Lectr.
Art		Domestic Science	
Haynes, J.	Sr. Lectr.	Ricketts, Eva, BSc Lond.	Sr. Lectr.
Baynes, Mrs. U.	Lectr.	Ward, Audrey	Lectr.
Croxford, M.	Lectr.	Desai, Mrs. Sumitra N., MA Med Bom., PhD Lond.	Lectr.
Botany		Griffiths, Mrs. Margaret J.	Lectr.
Issac, W. E., BSc PhD Wailes	Prof., Hld. of Dept.	Green, Mrs. Mary	Lectr.
Otieno, N. C., MSc PhD Camb	Lectr.		
Business Administration		Economics	
Rodgers, W. C., MA Edu.	Sr. Lectr.	Krishna, K. G. V., BA Mysr, MA Bom.	Lectr.
Roche, J. C., MCom Birm	St. Lectr.	Etherington, D. M., BSc(Econ) Rhodes, MSc Camb	Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

<b>Electrical Engineering</b>		<b>Mathematics</b>	
Summonds, R. K., BSc(Eng) <i>Lead</i> , MIEE	Sr Lectr	Sears, D. B., DSc <i>Rand</i> , DPhil <i>Oxon</i>	Prof Lectr
Wolfendale, E., BSc(Eng) <i>Lead</i> , MIEE	St Lectr	Williams, A. D., BSc <i>Lead</i>	Lectr
Bhagwat, P. G., BSc(Eng) <i>Lead</i>	Lectr	Alala, M., MA <i>St And</i>	Lectr
		Reuch, N. J., MSc <i>N Z.</i>	Lectr
<b>English</b>		<b>Mechanical Engineering</b>	
Wing, G. D., MC, MA <i>Durb</i>	Sr Lectr	Judson, C. A., BSc <i>Leeds</i> , MIMechE	Prof
Wright, E., MA <i>Lead</i>	Sr Lectr	Lamond, S. R., BSc(Eng) <i>Lead</i>	Sr Lectr
Wallwork, Mrs Jean F., BA <i>Manc</i>	Lectr	Allesop, A.	Lectr
Danny, N. V. E., BA <i>Rand</i>	Lectr	Fazel, R. F., BSc <i>St And</i>	(on leave) Lectr
<b>Geography</b>		<b>Physics</b>	
Morgan, W. T. W., MSc(Econ) <i>Lead</i> , PhD <i>Northwestern</i>	Sr Lectr	Hunter, A. N., BSc PhD <i>Lead</i>	Prof
Bullock, R. A., MA <i>Belf</i>	Lectr	Raja, P. K. S., BSc <i>Madr</i> , MSc	Sr Lectr
Ogendo, R. B., BSc <i>Abend</i>	Lectr	Mall, P. E., BA <i>Oxon</i>	Lectr
<b>Geology</b>			Lectr
Loupelane, I. S., BSc PhD <i>Bust.</i>	Prof Lectr	<b>Public Administration</b>	
<b>History</b>		Hannagan, A. St J., MA <i>Dab</i> , LLB	Sr Lectr
Gale, H. P., OBE, BA PhD <i>Lead</i> , DipEd <i>Canb</i> , FRHistS	Prof	Waruihu, S. N., BA LLB <i>Wales</i>	Lectr
Murgom, G. H., MA <i>Oxon</i>	(on leave) Lectr	<b>Quantity Surveying</b>	
Kieran, J. A., BA <i>Leu</i>	Lectr	Nelms, R. H.	Sr Lectr
Mengat, J., MA <i>Oregon</i>	Asst Lectr	Jones, J. T. E.	Lectr
<b>Land Surveying</b>		<b>Zoology</b>	
Williams, H. S., BSc(Eng) <i>Rand</i>	Sr Lectr	Kettle, D. S., DSc <i>Lead</i>	Prof
Hartog, P., BSc(Eng) <i>Rand</i>	Lectr	Coo, M. J., BSc <i>Lead</i>	Lectr
Oliver, J. G., BSc <i>Nott</i>	Lectr	Sale, J. B., BSc <i>Lead</i>	Lectr

## ADMINISTRATIVE AND OTHER STAFF

**LIBRARY** Dep. Librarian: C. Smith, FLA.  
**HALLS OF RESIDENCE** Dean of men's halls: W. C. Rodgers, MA *Edin* Warden of women's halls: Miriam Janisch, OBE, MA *Canb* Warden of men's halls: Prof. I. S. Loupelane, BSc PhD *Bust*; C. P. Vivian, BSc(Eng) *Lead*; M. J. Coo, BSc *Lead*  
**GAMES TUTOR**: R. W. Cooper.

**ADMINISTRATION** Asst Registrar: Louise McI. Smith, BSc(Econ) *Lead*, MA *McGill*.  
 Bursar: H. S. Adams, MC, Accountant: A. I. Maclean Asst Bursar: D. C. Owens Cateress: Jane Dalton

**MEDICAL STAFF** Med. Officer: H. M. T. MacDonald, MB ChB *Edin* Nursing Sister: Mrs Unity Coo

## GENERAL INFORMATION

The Royal Coll., Nairobi (incorporating the Gandhi Memorial Academy) was founded in 1934 as the Royal Tech. Coll. of E. Africa and became the second inter-territorial univ. coll. in E. Africa in Jan. 1961. There is no distinction of race or creed.

It is situated in Nairobi (pop. 250,000), the capital of Kenya.

The Royal Coll. is an autonomous body governed by its own coll. council. It is at present

in a scheme of spec. relationship\* with the Univ. of London and offers grad. degrees of that univ. in arts and soc. as well as the BSc(Eng).

For proposed assocn. in Univ. of E. Africa, see p. 426

**INCOME.** Total for yr. ending June 30, 1962, was £449,285 (Rockefeller grants, 0.8 per cent., Colonial Development & Welfare grants, 23.3 per cent., govt. grants, 61.4 per cent.; investment

\* For a note on these 'special relationship' arrangements, see p. 1074

income, 2.6 per cent., endowments, 0.3 per cent., fees, 10.4 per cent.; rents receivable, 1.1 per cent.; donations, 0.1 per cent.)

**FACULTIES AND DEANS.** *Art & archt.*, J. Baynts (art); *archt.*, G. D. Wang (Engl.), engr., Prof. C. A. Judson (mech. engl.); *sci.*, Prof. A. N. Kumbi (phys.), *spec. professional studies*, R. E. Elhies (accty.)

**UNIVERSITY PRINCIPAL.** Campus is situated on edge of centre of Nairobi and includes such new bldgs as a main library, sci. bldg. for phys. and chem., a civil engin. bldg. and an admin. block.

**LIBRARY.** 50,000 vols.

**ADMISSION.** (See also p. 427) Entry to faculties of arts, engin. and sci. is at higher school certificate or G.C.E. (principal or advanced) level with a min. of 2 advanced or principal level passes in selected subj. in accordance with the requirements of the Univ. of London. Students are not normally allowed to enrol as 'occasional students' or 'auditors'.

**FIRST DEGREE.** (See also p. 427) Courses are provided for BA, BSc and BSc(Eng), honours being awarded at end of 3-yr. courses.

For BA gen. degree, students take any 3 of the following subj. for 3 yrs.: econ., Engl., geog., hist., maths. The BSc gen. degree requires students to take 3 of the following subj. in their 1st yr.: bot., chem., geog., geol., maths., phys., zool. Having passed pt. I exam. at end of 1st yr., candidates then take 2 of their 3 subj. for 2nd and 3rd yrs. of course. All BSc(Eng) students take maths., strength of materials and structures, mechanics of machines, engin. drawing, mechanics of fluids, appl. heat, appl. electr. in their 1st yr. and then divide into civil, electr. and mech. engin. specializations for remaining 2 yrs.

**HIGHER DEGREE.** No facilities for higher degrees at present.

**OTHER COURSES.** Students are admitted at Cambridge Overseas Sch. Cert. level with 5 credits, 1 of which must be in Engl. lang., to depts. of art, archt., dom. sci., land surv. and quantity surv. Students of art take a 3-yr. Royal Coll. dipl. course, those in dom. sci. art entered for a teachers' dipl. recognized by Univ. of Manchester while those in archt., land and quantity surv. are entered for the exams of appropriate professional instns.

**RESEARCH.** Activities are at present confined to the academic staff.

**STUDY LEAVE.** is granted where it is possible for temp. replacements to be found.

**FEES.** Residence, £125 p.a. Tuition, £42 p.a. (arts and sci.); £51 p.a. (engin.). They are covered by govt. bursaries from the 3 E. African territories.

**ACADEMIC YEAR.** Oct. to June, 3 ten-wk terms. By 1966-67 it will run from May to March with long vac. in July-Sept.

**STUDENT RESIDENCES.** 4 men's halls of residence house 400 men students and Lady Sydney Hall houses 100 women students (Address & tel. no. for main coll.; for dean and students, see 'Admin. and Other Staff', above.) The coll. is predominantly residential.

**STAFF RESIDENCES.** Academic staff are housed in flats or houses owned or rented by the coll.

**HEALTH SERVICE.** Med. scheme for staff and students and an infirmary staffed by a full-time nursing sister. (For med. staff, see 'Admin. and Other Staff', above.)

**STUDENTS' UNION.** takes considerable interest in internat. student affairs and a very active student welfare cttee. as well as a wide range of student sporting and soc. activities.

**PUBLICATIONS.** *Calendar*; *Annual Report*.

## THE YEAR 1961

**PRINCIPAL DONATIONS.** Rockefeller Foundation, \$107,500 for chem. res., sci. equipment and res. periodicals; Ford Foundation, \$54,000 for library material.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. approaching completion: library; admin. office; flats to women's halls of residence; fourth men's hall of residence; maintenance workshop and store; sci. bldg. (chem. and phys.).

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	344	8
Women	73	11
Total	417	19

Distribution by Faculties/Departments. *Arts*, 57; *sci.*, 19; *engin.*, 115; *land surv.*, 10; *art*, 23; *archt.*, 32; *quantity surv.*, 8; *pub. admin.*, 13; *Chartered Inst. of Secretaries*, 36; *dom. sci.*, 34.

**DIPLOMAS AWARDED (1960-61)** Engin., 13; dom. sci., 5.

# TANGANYIKA

[Information compiled as at 7/6/62]

## UNIVERSITY COLLEGE, DAR ES SALAAM\*

Founded 1961

Postal Address: P.O. Box 9184, Dar es Salaam, Tanganyika, East Africa

Cables and Telegrams: Univcol, Dar es Salaam

Telephone: Dar es Salaam 20377

CHAIRMAN OF PROVISIONAL COUNCIL—The Hon. A. Y. A. KARIMJEE, CBE

PRINCIPAL-DESIGNATE—R. C. PRATT, BA McG, BPhil Oxon.

REGISTERAR—H. L. SNAITH, MA St Aust.

BURSAR—A. KNOX, TD

LIBRARIAN—H. HOLDSWORTH, MA Leeds, FLA

### TEACHING STAFF

#### Law

Weston, A. B., LLB W Aust, BCL Oxon. Prof.  
Twining, W. L., MA Oxon, JD Chic. St. Lectr.  
McAuslan, J. P. W. B., BA BCL Oxon. Lectr.

#### Political Science

Kimble, D., OBE, BA R'dg., PhD Lond. Prof.

#### EXTRA-MURAL STUDIES

Slee, A. T. C., BSc Lond., MA S.A.,  
PhD Cape T. Sr. Res. Tutor  
Temu, P. F., BSc Lond. Organizer

### ADMINISTRATIVE AND OTHER STAFF

Asst. Librarian: M. C. G. Wro, FLA; R. Temu.

### GENERAL INFORMATION

The Univ. Coll., Dar es Salaam, was established under the Univ. Coll., Dar es Salaam (Provisional Council) Ordinance, 1961. The first students from the 3 E. African mainland territories were admitted in Oct. 1961. Dar es Salaam (pop. 125,000) is the capital of Tanganyika.

**CONSTITUTION** The coll. is governed by a provisional council consisting of a chairman, vice-chairman, the principal-designate, 2 members appointed by the Inter-University Council for Higher Education Overseas, 2 members by the Tanganyika Higher Education Trust Fund Bd of Trustees, 3 members by the principal-designate

from amongst the academic staff of the coll., 3 members by govt.-gen. of Tanganyika, 3 members by govt. of Kenya, 3 members by govt. of Uganda, 1 member by British Resident, Zanzibar, and such addnl. members, not exceeding 3, as govt.-gen. of Tanganyika may appoint. The ordinance provides for an academic cttee. The functions of the provisional council include the planning, construction and establt. of a univ. coll. at Dar es Salaam, and the govt. and admsn. thereof. The provisional council and the academic cttee. are represented on the provisional council of the Univ. of E. Africa (see p. 426) of which the coll. will be a constituent member. It

\* Associate Member of the Association of Universities of the British Commonwealth

is intended to replace the provisional ordinance under which the coll operates as soon as possible after the Univ. of E. Africa has been estab. by legisn.

**INCOME** (1961-62) £52,600 (Tanganyika Higher Education Trust Fund, 57.5 per cent., govt grants, 41.3 per cent., tuition fees, 1 per cent.).

**FACULTIES AND DEANS.** Law, Prof. A. B. Weston.

**LOCATION.** The coll is being run in temp accomm in the centre of Dar es Salaam while bldgs for the facs. of arts and soc. and law are being constructed on an 860-acre site on the outskirts of Dar es Salaam. Planning is in hand of 1st phase of £1½ million bldg programme (library, residence for 230 men, arts bldg, staff housing, services, etc.), implementation begins July 1962.

**LIBRARIES.** Approx 10,000 vols.

**EAST AFRICAN SWAHILI COMMITTEE.** The admin. of the coll and its library are to be carried out from the coll.

**ADMISSION.** (See also p. 427). Entrance requirements approximate closely to those of Univ of London.

**FIRST DEGREE.** (See also p. 427). 1st-yr students follow course for inter. exam in laws of Univ of London and 2nd-yr. students follow course for pt 1 LL.B Lond under scheme of spec relationship\* of Makerere Univ Coll. and scheme of co-op. between Makerere and Univ. Coll., Dar es Salaam.

**LEAVE.** Expatriate staff, 3 mos every 21 mos in their home countries. Locally recruited staff, study leave abroad approx. every 6 yrs.

**FEE.** Residence, £125 p a., tuition, £42 p a.

**ACADEMIC YEAR.** July-March. 3 terms averaging 10 wks 1962-63. July 9-Sept 21, Oct 8-Dec 14, Jan. 14-March 15.

**LANGUAGE OF INSTRUCTION.** English.

**ADULT EDUCATION.** Dept of extra-mural studies provides courses in Dar es Salaam, Tanga, Morogoro.

**STUDENT RESIDENCE.** The coll. will be primarily residential. Temp. residential accomm for 40 students.

UNIVERSITY STUDENTS' UNION

## THE YEAR 1961

**PRINCIPAL BENEFICIARIES.** Ford Foundation, \$840,000 towards bldg. programme 1962-64 and \$40,000 towards devel. of an inst. of pub admin.; Sir Yusufali Karamjee Jivrajee, £40,000 for arts bldg.; Tanganyika Higher Educn. Trust Fund, approx. £35,000 for acquisition of site; Rockefeller Foundation, £10,000 for purchase of law books and \$60,000 for advancing date of recruitment of arts profs.; Carnegie Foundation, \$70,000 for devel. of extra-mural programme.

### Statistics

STUDENT NUMBERS, 1961-62		
(as at the beginning of the academic year)		
	Full-Time	Part-Time
Men . . .	13	—
Women . . .	1	—
Total . . .	14	—

All students in fac. of law.

\* For a note on these 'special relationship' arrangements, see p. 1074.



Temple, P. H., BA *Law*  
 Horie, B. S., MA *Nat*

Lectr  
 Lectr

Goodchild, A. J. P., BSc *Land*  
 (Agric. Zool.) Sr Lectr  
 Bowden, B. N., BA BSc DPhil *Oxon.*  
 (Agric. Bot.) Lectr

**Geology, see Geog.**

### History

Beachey, R. W., BA *Qu*, PhD *Edin* Prof  
 Gertzel, Cherry J., BA *W. Aust*, BLitt  
 DPhil *Oxon* Lectr.  
 Carter, Jennifer J., BA PhD *Lond* Lectr  
 Bridges, R. C., BA *N. Staffs* Lectr  
 Ogot, B. A., MA *St. And* Asst Lectr

### Mathematics

Welton, C. P., MSc PhD *Russ* Prof, Hd. of Dept  
 Phythian, J. E., MSc *Maue* Sr. Lectr  
 Hume, G. C., BSc *Lond* Lectr.  
 Mann, C. D., MSc *Leeds* Lectr.  
 Hawkes, T. O., BA *Cam* Lectr

**Medicine, see below**

### Physics

Thomson, D. M., MA PhD *Cam* Prof.  
 Rose, C. W., BSc BEng *Syd*, PhD *Lond*  
 Orr, D., BSc PhD *Lond* Sr Lectr  
 Webster, P., BSc *Lond* Lectr

### Political Science

Leys, C., MA *Oxon* Prof  
 Engholm, G. F., BSc(Econ) *Lond* Sr Lectr.  
 Whistler, P., MA *Durb.*, PhD *Maue* Lectr

### Religious Studies

King, Rev. N. Q., MA *Oxon*, PhD *Nott* Prof

### Sociology and Social Anthropology

Southall, A. W., MA *Cam*, PhD *Lond* Prof., Hd. of Dept.  
 Goldthorpe, J. E., MA *Cam*,  
 BSc(Econ) PhD *Lond* Sr Lectr  
 Kamalo, C., MScSc *Nat*, PhD *Boston* Lectr.

### Zoology

Beadle, L. C., MA *Cam* Prof.  
 Wawoo, D., MA *Oxon*, PhD *Lond* Sr Lectr  
 Thurston, June P., MA *Cam*, PhD *Lond* Lectr  
 Visser, S. A., Jr *T. H. Delft* Nuffield Res. Fellow  
 Baange, W. B. M. R., BSc *Lond*, PhD *Durb.*  
 Res. Fellow

## AGRICULTURE

### Agricultural Biology

Keay, Margaret A., MA *Cape T*, PhD *Cam* Reader, Hd. of Dept.  
 Husley, A., BSc *K'g* (Hortic.) Sr. Lectr.

### Agricultural Chemistry

Buch, H. F., BSc PhD *Law* Reader, Hd. of Dept  
 Lloyd Jenkins, W., MSc PhD *Wales* Sr Lectr  
 Arman, Pamela, BSc *R'dg*, MSc *Lond* Lectr

### Agriculture

Wilson, F. B., MBE, MA DipAgric *Comb.*,  
 AICTA *Tun* Prof  
 Mahadevan, P., BSc *Ceyl*, PhD *Glar*  
 (Animal Husb.) Reader  
 Boshoff, W. H., BSc(Eng) *Rand*,  
 MSc(AgricEng) *Durb* (Agric. Engin.) Sr Lectr  
 MacDonald, A. S., BSc(Agric) *Durb* (Crop Husb.) Lectr.  
 Belshaw, D. G. R., MA *Comb*, DipAgric  
*Oxon* Lectr

## EDUCATION

### Education

Lucas, E., MA *Comb* Prof  
 French, A., BA *Oxon* Sr Lectr  
 Cresser, H., BSc *Leeds* Sr Lectr.  
 Watson, T., MA *Comb* Lectr  
 Kagabi, W. S., MSc *Clwe* Lectr  
 Harbottle, Mrs. Moura, MA *Glas* Lectr  
 Kent, R. B. Lectr.  
 Youngson, W. H. A., MBE Lectr  
 Mushi Katana, S. Lectr  
 Mayhew, Phyllis Lectr

### Educational Psychology

McAdam, K. J., BA BEd *Melb.* Reader, Hd. of Dept

### Language Method

Bright, J. A., BA *Lond* Reader, Hd. of Dept  
 Wingard, P. G., MA *Oxon* Lectr  
 Mosha, M., BA *Lond*, MA *Mich.* Nuffield Res. Fellow

## MEDICINE

### Anaesthetics

Steen, T. R., MB BChir *Comb.*, FFARCS  
 \*|Lectr

### Anatomy

Allbrook, D. B., MB BS PhD *Lond* Prof.  
 Foltz, F. M., BA MS *S. Dakota*,  
 PhD *Kansas* Sr Lectr  
 Chagula, W. K., MA *Comb* Lectr.  
 Hall-Craggs, E. C. B., MA MB BChir *Comb* Lectr  
 George, J., MB BS *Calc*, FRCSI Lectr.

\* Govt. Medical Service

**Gynaecology and Obstetrics**

Rendle-Short, Coralie, MB ChM <i>Brst</i> , FRCOG	Prof
Trussell, R. R., MB ChB <i>Burm</i>	First Asst
Kayton, Daphne	Lectr
Munafield, H. N., MD <i>Land</i>	*†Lectr.
Scotland, W. H. D., MD <i>Glas</i>	*†Lectr

**Medical Microbiology**

Wilson, A. M. M., BA BM BCh <i>Oxov</i> , DipBact <i>Land</i>	Reader, Hd of Dept
King, M. H., MA MB BCh Camb, MRCP	Lectr
Barnley, G. R., MSc <i>Leeds</i>	Lectr

**Medicine**

Tulloch, J. A., MC, MD <i>Edin</i> , FRCPed	Prof.
Shaper, A. G., MB ChB Cape T., MRCP	St. Lectr., First Asst
Somers, K., MB BCh <i>Rand</i> , MRCP	Lectr.
Barnwell, J. G., MA BM BCh <i>Oxov</i> , MRCP	Lectr
Billinghurst, J. R., MA BM BCh <i>Oxov</i>	Lectr
Leonard, P. J., MSc <i>N U I</i>	(Biochem.) Res. Fellow
Alderdice, A. A., MD <i>Syd</i> , MRCP	*†Lectr.
Lanceley, J. L., MD <i>Le</i> , FRFP&Glas	*†Lectr
Murray, T. W., MB ChB <i>N Z</i> , DPM (Psychiatry)	*†Lectr
James, Miss Jenn, MB ChB <i>Brist</i> , (Dermatol.)	*†Lectr
Kinnear Brown, J. A., MD <i>Lib</i> (Leptosis)	*†Lectr

**Pædiatrics**

Jellicoe, D. H., MD <i>Land</i> , FRCP	Prof.
Khan, M. A. A., BSc MB BS <i>Pany</i> , MRCPed	Lectr.
White, R. H. R., MD <i>Land</i>	Lectr.
Welbourn, Miss Hebe, MD <i>Burm</i>	Lectr.

**Pathology**

Hutt, M. S. R., MD <i>Land</i> , MRCP	Prof
Wright, D. H., BSc MB ChB <i>Brst</i>	Lectr
Connor, D. H., MD CM <i>Qu</i>	Lectr
McAlpine, J. C., MB BS <i>Land</i>	Lectr
Buck, S. C., MA MB BChs <i>Camb</i>	*†Lectr
Blackman, V., MB BS <i>Land</i>	*†Lectr

**Pharmacology**

Lock, J. A., BSc <i>Land</i>	Sr. Lectr.
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**Physiology**

Luck, C. P., BSc MB BCh <i>Rand</i>	Prof.
Wright, P. G., BSc PhD <i>Land</i>	St. Lectr.
Crawford, M. A., BSc <i>Edin</i> , (Biochem.)	Lectr.

**Preventive Medicine**

..	Prof.
----	-------

\* Govt. Medical Service

Bennett, F. J., MB ChB Cape T.  
Lutwama, J. S. W., MRCP

St. Lectr  
Lectr

**Surgery**

McAdam, I. W. J., OBE, MB ChB <i>Edin</i> , FRCSed	Prof
Cook, J., MB ChB <i>Edin</i> , FRCSed	Sr. Lectr
Lamm, H. F., BSc MB BS <i>Land</i> , FRCS	St. Lectr.
Huckstep, R. L., MA MD <i>Camb</i> , FRCSed, FRCS	Lectr
Shupphard, J. J., MB ChB <i>Mann</i> , FRCS	Lectr.
Burkitt, D. P., MD BAO <i>Dub</i> , FRCSed	*†Lectr.
Croot, H. J., CBE, MB BS <i>Land</i> , FRCS	*†Lectr
Ellis-Jones, D. W., MB ChB <i>Leu</i> , (Ophthalmol.)	*†Lectr
Davies, A. G. M., MD DMRD <i>Brst</i>	*†Lectr.
Darling, J. S., OBE, MB BCh BAO <i>Belf</i> , FRCS	*†Lectr.
Kyalwazi, S., FRCSed	*†Lectr
Maitin, J. A. M., MB BS <i>Land</i>	*†Lectr
Batten, K. L., MB BS <i>Land</i>	*†Lectr.
Ashman James, P., MB ChB <i>Brst</i> , FRCS	*†Lectr.
Ahika, M. J., BPh DDD <i>Northwestern</i> (Dent. S.)	Lectr
Adeta, A. K., BDS <i>Land</i> (Dent. S.)	Lectr

**EAST AFRICAN INSTITUTE OF  
SOCIAL RESEARCH**

Stennung, D. J., MA PhD <i>Camb</i>	Sec., Appl. Res. Unit
Aden, Virginia, BA <i>Camb</i>	Res. Fellow
Dalva, B. W., DipEcon&PolSci <i>Oxam</i> , DipAnthrop <i>Camb</i>	Res. Fellow
Hammorth, Josephine, MSc(Econ) <i>Land</i>	Res. Fellow
Kasimi, S. K., BA <i>Oxov</i> , MA <i>Land</i>	Res. Fellow
Maleche, A., BA <i>Camb</i> , MA <i>Oxov</i>	Res. Fellow
Moody, R. W., BA <i>Camb</i>	Res. Fellow
Park, G. K., MA PhD <i>Chc</i>	Res. Fellow
Rugby, P. J. A., BA Cape T	Res. Fellow
Slivey, J., BA <i>Camb</i>	Res. Fellow
Selitto, K. K., BSc <i>Land</i>	Res. Fellow
Whisson, M. G., BA <i>Camb</i>	Res. Fellow

**EXTRA-MURAL STUDIES**

Moore, G. H., MA <i>Camb</i>	Dir.
Resident Tutors for Uganda	
Clarke, R. P., BA <i>Camb</i>	
Kwende, B., BA <i>Camb</i>	
Resident Tutors for Kenya	
Prosser, R. C., BSc(Econ) <i>Land</i>	
Richards, E. L. F., MA <i>Oxov</i>	
Tanner, R. E. S., BSc <i>Oxov</i>	



## ADMINISTRATIVE AND OTHER STAFF

Wardens: Mitchell Hall, Rev. F. B. Welbourn, MA Camb.; Northcote Hall, H. P. Dinwaddy, MA Camb.; New Hall, D. B. Heaton, MA N.Z., PhD ANU; Mary Stuart Hall, Hannah M. Stanton, BA Lond., MA Oxon., University Hall, J. W. T. Allen, MA Oxon., Livingstone Hall, R. A. Hamilton, MA Oxon. Dep. Librarian: A. J. Loveday, MA Camb. Asst. Librarians:

Barbara M. A. Bee, BA Natsl., FSALA, Priscilla M. Allen, MA Oxon., FLA., A. J. Barnes, BA N Staffs. Chaplains: Rev. D. A. Payne, MA Oxon., Rev. J. J. Maguire, BA Lond. (R.C.) Asst. Bursars: S. S. Mullan, Phyllis M. King; M. J. W. Kanya, G. H. Layman, M. L. Parker. Estates Officer: ... Farm Manager: E. H. S. Barlow

## GENERAL INFORMATION

Makerere Coll., founded in 1922 as a Uganda govt. tech. sch., so developed the scope and standard of its courses and the range of its membership that it was recognized 15 yrs. later as the centre of higher studies in E. Africa. The report of the De la Warr commission (1937) recommended its devel. to univ. coll. and later to univ. status. It was reconstituted as an independent coll. with strong support and encouragement both in E. Africa and from the U.K., and after the 1939-45 war when further devel. became possible the Asquith commission confirmed the policy adopted in 1938. Moreover the scheme of spec. reln.\* with the Univ. of London which the commission proposed offered the solution to the problem of how the aims of this policy were to be achieved. The coll. was admitted into spec. reln. in 1949 and courses leading to gen. degrees in arts and sci. were instituted in the following yr.

The coll. is wholly residential. It is open to all students, regardless of race, colour and religion, who have the academic qualifs. necessary for admission. Entries are accepted from any of the E. African territories, i.e. Kenya, Uganda, Tanganyika and Zanzibar. There is a limited number of places for students from other territories.

The coll. is situated on Makerere hill, and the med. school (address: P.O. Box 2072, Kampala) on the adjacent hill of Mulago, both on the outskirts of Kampala (capital of Uganda). The farm for the fac. of agric. is at Kabanyolo, 13 miles from Kampala.

A major bldg. programme has been undertaken since 1948, financed mainly by grants of £3½ millions from C.D. & W. funds. This includes a library, new teaching and res. bldgs. on all facs., 5 halls of residence, and accom. for staff.

Now that a other E. African univ. colls. have been established in Nairobi and Dar es Salaam, the coll. has agreed to join with them in constituting a Univ. of E. Africa (see p. 426). The intention is to establish the univ. in 1963. Meanwhile the coll. is arranging to share some of its former commitments with the other colls. The Tanganyika branch of its dept. of extra-mural studies and the E. A. Swahili cttee. have been transferred to U.C., Dar es Salaam, and the fac. of vet. sci.

which is concentrated at Kabete, near Nairobi, has been transferred to the Royal Coll.

**CONSTITUTION** This follows closely the pattern of the English civic univs., with a council consisting of lay and academic members as the governing body, and an academic bd. responsible for all academic matters.

**INCOME** (1960-61) £663,406 (endowments, 4 per cent.; govt. grants, 90 per cent.; tuition fees, 5 per cent., med., 1 per cent.).

**FACULTIES AND DEANS.** *Agric.*, Dr. Margaret A. Keny (agric. bial.), *arts*, Prof. G. Watson (Engl.), *educn.*, J. A. Bright (lang. method); *med.*, Prof. J. A. Tulloch, *sci.*, Prof. M. Crawford (chem.)

**LIBRARIES** Main library, approx. 70,000 vols., sub-library at med. sch., approx. 16,000 vols.

**LABORATORIES** Bot., chem., geol., phys.; agric. bot., agric. chem., agric. zool., anat. (incl. histol.), physiol. (incl. biochem.), pathol., cancer res., pharmacol., med. microbiol.

**Small OBSERVATORY** (dept. of phys.), med. and zool. museums, bot. garden; rural health centre (dept. of preventive med.)

**CHAPELS AND MOSQUE.** There are a chapel (the chapel of St. Augustine for Roman Catholics) and the chapel of St. Francis for members of other branches of the church) and a mosque.

**TEACHING HOSPITAL.** Govt. hosp. at Mulago, Kampala, on the same site as the med. sch.

**FACILITIES OF SPECIAL INSTITUTIONS.** The East African Inst. of Soc. Res. is administered by the coll. Its main function is field res. in Uganda, Kenya, Tanganyika and Zanzibar, covering anthropol. studies in particular tribes, or urban surveys and comparative studies of particular aspects of problems of interest to all E. African territories in the field of sociol., econ., psychol., public admin. and law, and linguistic res.

**ADMISSION** See Univ. of E. Africa entry (p. 427)

**FIRST DEGREE** (See also p. 427). Students already entered upon courses for Univ. of London

\* For a note on these 'special relationship' arrangements, see p. 1074

degrees may continue to final degree. Following courses will be offered for Univ. of E. Africa degrees: BA (3 yrs.), BSc (3 yrs.), BSc(Agric) (3 yrs.). Title of mod. degree and duration of course under consideration.

HIGHER DEGREES: See Univ. of E. Africa entry (p. 427).

DIPLOMAS: Educn., 1-yr. postgrad.; fine art, 4 yrs.

CERTIFICATES: Fine art, 2 yrs. (course identical with first 2 yrs of dipl.); religious studies, 3 yrs., taken concurrently with any other undergrad. course.

RESEARCH: Facilities available in all depts. Res. grants extn. of acad. bd. makes grants from coll. funds. *Annual Report* lists res. in progress and publications.

LEAVE in the U.K. on at their homes for members of staff recruited from overseas: 3 mos. every 4 yrs. For locally recruited staff, 3 mos. in U.K. every 4 yrs.

Fees: Residence, £125 p.a.; tuition, £42 p.a. (arts, sci., educn.), £51 p.a. (med.).

ACADEMIC YEAR: July to April, 3 terms of 10½ weeks.

1962-63: July 16 to Sept. 15, Oct. 1 to Dec. 8, Jan. 7 to March 30.

LANGUAGE OF INSTRUCTION: English.

ADULT EDUCATION: The dept. of extra-mural studies provides courses in Uganda and, at present, in Kenya.

APPOINTMENTS BOARD: Sec., R. A. Hamilton, MA Oxon.

OLD STUDENTS' ASSOCIATION: Makerere Coll. union soc. Further information from sec., c/o The Principal, Makerere Univ. Coll., P.O. Box 262, Kampala.

RESIDENCE: (For students, see 'Admission and Other Staff', p. 436). On admission to the coll., students reside in one of the halls of residence: Mitchell Hall (220 men), Northcote Hall (180 men), New Hall (160 men), Mary Stuart Hall (100 women), University Hall (220 men), Livingstone Hall (160 men). There is accommodation at Kabanyolo for agric. students in their first yr.

STUDENT HEALTH SERVICE: Free service (for all students) run by a coll. med. officers (pt.-time) and nursing staff (full-time). Clinic and ward accomm. Regular med. exams.

STUDENTS' UNION: Makerere Coll. guild.

PUBLICATIONS: *Calendar*; *Annual Report*.

UNIVERSITY BOOKSHOP: Situated on main coll. site.

## THE YEAR 1961

PRINCIPAL BENEFACTIONS: UNICEF, \$140,000 for extn. of pref. ug.; Ford Foundation, \$216,000 for trg. of lab. technicians and \$88,000 for investigations on sch. leavers.

(Total value of all benefactions received: £190,000).

MAJOR BUILDING DEVELOPMENTS: Bldgs. completed, students' hostel, agric. farm, 12 staff houses; extn. to fac. of educn. Approaching completion: extn. to library; extn. to fac. of arts.

RETIRESMENTS: Prof. A. Galloway (anat.).

REIGNATIONS: Prof. D. Walker (econ.), apptd. to staff of econ. res. inst., Dublin, V. Hutson (maths.), T. A. Villiers (bot.); A. Lepton (physiol.), apptd. as lectr. in physiol., Q'ld., E. K. Gill (chem.), C. Ehrlich (econ.), apptd. lectr. in econ. hist., Belf., P. Duno (Engl.), apptd. lectr. in Engl., Auckland, T. Kennedy (econ.), apptd. econ. adviser, I. M. Treasury, J. Livingstone (econ.), apptd. lectr. in econ., Sheffield, C. J. Ball (phys.), apptd. lectr. in metall., Sheffield; Prof. J. N. P. Davies (pathol.), apptd. reader, postgrad. med. sch., Lond.; M. A. Barrett (agric.), apptd. principal, Egerton Agric. Coll., Kenya; S. Ntiro (fine art), apptd. diplomatic post in Tanganyika foreign service, J. Whyte (hist.), apptd. lectr. in pol., U.C. Dublin; F. Sutton (asst. burser), apptd. burser, Leic.; E. Pawson (agric. chem.), Prof. K. Inglish (hist.), apptd. dir. of studies, R.M.C., Sandhurst; G. McGrath (geog.), A. M. Rankin (med.).

\* The U.S. students were attending courses in the fac. of educn. in preparation for teaching in E. Africa.

## Statistics

### STUDENT NUMBERS, 1961-62

(% at the beginning of the academic year.)

	Full-Time	Part-Time
Men	838	—
Women	113	—
Total	951	—

Distribution by Faculties: Agric., 44; arts, 269; educn., 241; fine arts, 28; med., 148; sci., 202; vet. sci., 19. Total: 951.

Included in the figures above are —

Postgraduate students, 5 (see also below).

Postadmission, 390 (this includes 169 graduate educn. students from U.K. & U.S.A.\*).

Students from other countries, 181. (Countries from which largest numbers come: U.S.A.\* 156; U.K., 13).

DEGREES AWARDED (1960-61) (sp. relationship with Univ. of London): Agric.: BSc(Agric), 9; Arts: BA, 41; BA hon., 19. Econ.: BSc(Econ), 5; Sci.: BSc, 12.

DIPLOMAS AWARDED (1960-61): Agric., 4; educn., 40; fine art, 2; med. (baccalaureates), 24; vet. sci., 5.

CERTIFICATES AWARDED (1960-61): Religious studies, 15; fine art, 11.



# GHANA

University of Ghana (p. 446)

Kwame Nkrumah University of Science and Technology (p. 445)

# UNIVERSITY OF GHANA\*

Founded 1961; previously established as University College of Ghana, 1948

Postal Address: Legon, Ghana, West Africa

Cables and Telegrams: University, Legon

Telephone: Legon Exchange

(Overseas Office: 15 Gordon Square, London, W.C.1; Cable: Unavghana, London, W.C.1)

Telegram: Unavghana, Westcent, London. Telephone: Euston 2119)

CHANCELLOR—Ossanyefo K. NINSIN, BA BD Lincoln, MA BSc Paris, Hon. DSc Humboldt, Hon. PhD Prague, Hon. LL.D. Calais, Lincoln & Moscow, Hon. DLitt Delhi, President of the Republic of Ghana

VICE-CHANCELLOR—C. C. O'BRIEN, BA PhD Dub

REGISTRAR—E. A. K. EDEH, BA Lond.

CHIEF ACCOUNTANT—G. M. ROSE, CA

LIBRARIAN—J. E. DEAN, MA Oxon

## TEACHING STAFF

### Agriculture, see below

#### Archaeology

Shinnie, P. L., MA Oxon, FSA Prof.  
Davies, O., MA Oxon, DLit Dub. Reader  
Ozanne, P. C., BA Camb Lectr

#### Botany

Saunders, F. W., BSc(Agric) PhD Edin., FLS Prof.  
Lawson, G. W., BSc PhD Lond. Sr. Lectr  
Saunders, Eva R., MSc Durh., DSc Manc

Harris, B. J., BSc PhD Wales Sr. Lectr  
Wilson, J. Y., BSc Lond., PhD Camb. Lectr  
Laing, E., BSc Lond., PhD Camb. Lectr.  
2 Lectrs.

#### Chemistry

Torso, F. G. T. O'B., BSc PhD Lond. Prof.  
Quarley, J. A. K., MA PhD Camb. Assoc. Prof.  
Beke, D. A., BSc Lond., DPhil Oxon Lectr  
Hutchinson, A. T., PhD McGill, MSc Sask. Lectr  
Whipple, R. O., BS Mich., MS Harv Lectr  
McCann, A. P., BSc PhD Lond. Lectr

#### Classics

Dicks, D. R., BA PhD Lond. Prof.  
Kwong, A. A., MA PhD Camb. Prof.  
Ofosu-Appiah, L. H., MA Oxon Assoc. Prof.

Hanson, J. O. de G., BA Lond. & Camb. Lectr  
Lectr

#### Divinity

Bates, Rev. C. G., OBE, BA BD Prof.  
PhD Lond., Hon. DD Tokyo Prof.  
Hicks, Rev. D. C., MA BD Glas. Lectr  
Dickson, Rev. K. A., BA Lond., BLitt Oxon. Lectr.  
Stewart, J. V., BA Oxon. Lectr

#### Economics

Dzwonowski, J., DSc(Econ) Warsaw Prof.  
Froja, Z. M., PhD(Econ) Warsaw St. Lectr  
Lawson, Mrs. Rowena, MCom Birm. Lectr  
Wel, P. F. van der, MSc E.H. Rotterdam Lectr.  
Jedrzejewski, J., DSc(Econ) Warsaw Lectr.  
Polson, B. D. G., BSc(Econ) Lond., BPhil Oxon Lectr  
Killick, A. J., BA Oxon. Lectr  
Kay, G. B., BA Camb Lectr.  
Humphreys, Mrs. Mary E., MA Camb. Sr. Res. Fellow

#### Education

Chaplin, B. H. G., BSc Manc. Prof.  
Acquaye, J. F., BSc Lond. Lectr.  
Furrow, D. K., MA Camb., PhD Edin. Lectr.  
Kory, A. G., MA St. And. Lectr.

\* Member of the Association of Universities of the British Commonwealth

**English**

Duna, T. A., MA PhD Edin.	Prof.
Mayhead, R., MA Camb	Lectr
Senanu, K. E., BA Lond & Camb	Lectr
Sey, K. A., BA Lond. & Oxon.	Lectr
Trodd, K. G., BA Oxon	Lectr
Taylor, D. R., BA Ansh	Lectr

**French Studies**

Jones, R. A., MC, MA Lond	Prof
Knight, E. W., BA Brown, DU Paris	St. Lectr
Amann, R. F., BA Lond., MA Manc	Lectr.
Graco, G., LittL Paris	Lectr.
Fabiani, A., LittL Paris	Lectr
Pollet, M. Y., LittL Paris	Lectr

**Geography**

Bontang, E. A., MA BLitt Oxon.	Prof
Hulton, T. E., MA Manc, PhD Lond	St. Lectr.
Hunter, J. M., BA PhD R'dg.	Lectr.
Dickson, K. B., BA PhD Lond.	Lectr.
Hilling, D., BSc Wales	Lectr.

**Geology**

McCallum, W. J., DSc Glas.	Prof.
Smat, A. F. J., MSc Amst.	Lectr.
van Landuyck, J. E. M., DSc Utrecht	Lectr.
Austin, W. G. C., BA N. Staffs.	Lectr.
Quashie, L. A. K., BA Maitani, MS Mich	Lectr.

**History**

Irwin, G. W., MA Camb. & N. Z., PhD Camb., BA Adel.	Prof.
Leader, J. R., MA MLitt Camb	St. Lectr
Priestley, Margaret A., MA Camb., BLitt Oxon	St. Lectr
Spriggs, R. G. S., MA Camb.	Lectr.
Boahen, A. A., BA PhD Lond	Lectr.
Tufuoh, I. A., BA Lond.	Lectr.
Dobbin, Jennifer L. M., BA Oxon	Lectr
Jones, T. A., MA Camb	Lectr

**Law**

Harvey, W. B., AB JDC Mich.	Prof
.....	St. Lectr.
Daniels, W. C. F., LL.M Lond.	Lectr.
Assante, S. K., LL.B Nott., LL.M Lond.	Lectr
Afich, D. K., LL.B Biru, LL.M Lond	Lectr.
Woodman, G. R., BA LL.B Camb.	Res. Fellow

**Mathematics**

Clarke, L. E., MA PhD Camb.	Prof
Campbell, M. O'N., MA PhD Camb.	St. Lectr.
Hartley, Elizabeth M., MA PhD Camb.	Lectr.
Sampantah, S., BSc Ceyl., MA PhD Camb.	Lectr.
Ladinsky, R. J., DSc Warsaw	Lectr.
Jackson, J. S., BSc Lond.	Lectr.

**Philosophy**

Abraham, W. E., BA Lond., MA BPhil Oxon.	Assoc Prof
Gibbons, P. C., BA Syst., BPhil Oxon.	Lectr

Collins, E. F., BA Camb	Lectr
Gjertsen, D., BA Leeds	Lectr
Wiredu, J. E., BA Lond, BPhil Oxon	Lectr.

**Phonetics**

McCallum, Miss Catharine, MA Glas. St	Lectr.
Woolley, J. S., MA Oxon	Lectr.
Sutring, W. F., BA Lond, LindsFil Madras	Lectr

Hubbard, Wendy E., BA Leeds	Lectr.
Bondi, L. A., BA Lond, MA U.C.L. A	Lectr
Chasebush, I. K., BA Lond	Lectr
..	Lectr

**Physics**

Wright, R. W. H., BSc PhD Lond	Prof.
Koster, Rev. J. R., MS De Paul, PhD Lond	St. Lectr
Hutton, V. Rosemary S., MA St. And.	Lectr.
Osborne, D. G., BSc PhD Durh	Lectr
McClelland, J. A. G., BSc Dal	Lectr.
Grimes, L. G., BSc PhD Brst	Lectr.
Redding, J. L., BSc Lond	Lectr.
Clemenshe, B. R., BSc Lond	Res. Fellow
Hibberd, F., BA Camb.	Res. Fellow

**Radio Isotope Unit**

Ward, A. H., BSc PhD Brst.	St. Res. Fellow
Bamsey, K. C., MSc Duca, PhD Lond	Res. Fellow
Ntufuro, C. P., BSc Lond.	Je Res. Fellow

**Sociology**

Elus, N., DPhil Brst	Prof
Caldwell, J. C., BA N.Z.	St. Res. Fellow
..	St. Lectr.
Rollings, P. J., BSc(Soc) Lond	Lectr.
de Graft-Johnson, K. E., MA Lond.	Lectr.
Fleeman, C. E., BA PhD Lond.	Lectr.
Brokensha, D. W., BA S.A., MA Camb., BLitt Oxon (Soc Admin)	Lectr. & Tutor
Omari, T. P., MSc PhD Wir	(Soc. Admin.) Lectr.
Morton-Williams, P. M., BSc Lond	Lectr

**Zoology**

Thomas, J. D., BSc PhD Wales	St. Prof
Jago, N. D., BSc Lond	Lectr.
People, W., MSc Natal	Lectr
Hughes, B., BSc Lond	Lectr
Wen, B. T., BSc PhD Lond	Lectr.
Cole, L. R., BSc Lond., DPhil Oxon.	Lectr.

**AGRICULTURE****Agricultural Economy and Farm Management**

Coulthard, T. L., BE Ssk, MSc King Coll.	Prof.
.....	St. Lectr.
Dadson, J. A., BSc McG., MA(Econ) Haru.	Lectr
Sand, M. M., MSc Cairo	Lectr.

**Animal Husbandry and Health**

Wilson, A. S. B., BSc <i>Edu</i>	Prof
Haidang, H. P.	Sr Lectr
Roy-Innes, R., MSc <i>Rand</i>	Sr Lectr
Sen, K. M., BSc(Ag) <i>Bau</i> , MSc <i>Edu</i> , DSc <i>Wageningen</i>	Lectr

**Crop Husbandry and Horticulture**

Nicol, H., MSc PhD <i>Land</i>	Prof
"	Sr Lectr
"	Sr Lectr
Gauria, F. M. A., BSc(Agric) <i>Wageningen</i>	Lectr
Thompson, E. J., MS <i>Iowa</i>	Lectr
Amuh, I. K. A., BSc <i>Land</i>	Lectr
Ahn, P., BA <i>Coash</i>	Res Fellow

**Nutrition and Food Science**

"	Prof.
McDow, M. G. C., BSc <i>Aberd</i>	Sr Lectr
"	Lectr

**Nungua Research Station**

"	Farm Manager
Quarrie-Papagno, B. K.	Asst Farm Manager

**Kade Research Station**

Hagenzieker, F., MSc(Agric) <i>Wageningen</i>	Res. Officer-in-Charge
Jordan D., BSc(Agric) <i>R'dg</i>	Res Fellow
Laefstingh, G., MSc(Agric) <i>Wageningen</i>	Res Fellow
Langley, C. J.	Farm Manager

**Kpong Research Station**

Kowal, J. M. L., MSc <i>Wales</i>	Res Fellow
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**INSTITUTE OF PUBLIC EDUCATION**

de Graft-Johnson, J. C., BCom MA	
PhD <i>Edu</i>	Dir
Jones-Quarby, K. A. B., AM <i>Cal.</i>	Asst Dir
Bertelsen, P. H., CandPol <i>Copenhagen</i>	Resident Tutor
Andoh, A. S. Y., MA <i>St And.</i> , BA <i>Oxon.</i>	Resident Tutor
Ampene, E., MA <i>Land.</i>	Resident Tutor
Halden, J. J., MA <i>Oxon.</i>	Resident Tutor

**INSTITUTE OF AFRICAN STUDIES**

Hodgkin, T., MA <i>Oxon.</i>	Dir
Nketia, J. H., BA <i>Land.</i>	Assoc Prof
Wilks, I. G., MA <i>Wales</i>	Sr. Res. Fellow
Wilson, W. A. A., BA <i>Coash</i>	Res. Fellow

Stewart, J. M., MA <i>Edu</i>	Res Fellow
Anstie, G., BD <i>Land.</i> , MA <i>Hartford Sew</i>	Res. Fellow

**INSTITUTE OF EDUCATION**

Flemming, W., MSc MA <i>Law</i>	Dir.
Andrews, H. J., MA <i>Oxon.</i>	Lectr
Kwakwa, B. S., BA <i>Land</i>	Lectr

**SCHOOL OF ADMINISTRATION**

Amegashie, R. S., BCom <i>Durk</i>	Dir
Adjei, K. E., BS <i>Penn.</i> , MS <i>Phil</i>	Lectr, Sch. of Admin
Aidam, P. T. K.	Lectr, Sch. of Admin
Amorin, J. N. E., BCom <i>Durk</i>	Lectr, Sch. of Admin
Appiah-Pippam, J. B.	Lectr, Sch. of Admin
Arissie, G. K.	Lectr, Sch. of Admin
Awoonor-Williams, G., BA <i>Land</i>	Lectr, Sch. of Admin
Barry, M. A., BA <i>Oxon</i>	Lectr, Sch. of Admin
Bombene, E. H., BCom <i>Bau</i>	Lectr, Sch. of Admin
Dawes, N. A., MA <i>Oxon.</i>	Lectr, Sch. of Admin
Greenstiert, D. K., BSc(Econ)	Lectr, Sch. of Admin
PhD <i>Land</i>	Lectr, Sch. of Admin
Gyandoh, S. O., BA <i>St'ou</i>	Lectr, Sch. of Admin
Howe, M. D., MA <i>Med</i>	Lectr, Sch. of Admin
Hyndman, A., BA <i>Oxon</i>	Lectr, Dept. of Economics
Rowe, A., FCA	Lectr, Sch. of Admin.

**SPECIAL STATE PROFESSORSHIPS**

(attached also to K.N.U.S.T.)

May, A. N., BA PhD <i>Coash.</i>	(Phys.) Prof
Kuana, A. C., MA <i>Oxon. &amp; Dub.</i> , LLB <i>Dub.</i>	(Law) Prof.

**HONORARY APPOINTMENTS**

Oilemu, M., Justice N. A.	(Law) Hon. Prof.
Gilman, J., MB BCh DSc <i>Rand</i>	(Human Biol.) Hon. Prof
Gilbert, Christine, DSc <i>Rand</i>	(Exper. Biol.) Hon. St. Lectr.
Scott, G. J., MRCPEd	(Human Biol.) Hon. St. Lectr.
Hathorn, M. K. S., BSc(Eng) MB BCh <i>Rand</i>	(Exper. Physiol.) Hon. St. Lectr
Mundy-Castle, A., MA <i>Coash.</i> , PhD <i>Rand</i>	(Bio-Psychol.) Hon. St. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Mod. Officer: A. M. Boyd, BSc MB ChB  
DPH *St And.*, DTM&H *Land* Asst Med  
Officer: S. A. Banful, MB BS *Durk*. Sr Asst  
Registrars: H. O. A. Agyemman, BA *McG*, MA  
Col; C. K. Gheho, BA *Land*; E. O. Dodoa,

BA *Land*. Asst. Registrars: G. R. Gyamfi,  
BSc(Econ) *Land.*, E. B. Larmar, BSc(Econ)  
*Land.*, S. B. Mfodwo, BA *Land* Asst. Chief  
Accountant: S. K. B. Taylor. Sub-Librarian:  
Elizabeth M. Moys, BA *Land*. Asst. Librarians:

E. Y. Amodekoy, BA *Law*, D. O. Bempoe, BA *Law*, Sec. to Inst. of Educn. · N. O. Anum, BA *Law*, MA *Clement* Manciple. G. A. Deegan, Hdc. of Halls of Residence · Rev. C. G. Baeta, OBE, BA BD PhD *Law*, Hon. DD *Tolgo* (Legon Hall), L. H. Ofosu-Appah, MA *Orise* (Akwafio Hall), J. C. de Graft-Johnson, BCom MA PhD *Edu* (Commonwealth Hall), Eva R.

Sansome, MSc *Dual*, DSc *Manc* (Volta Hall) Hall Bureau: Olive I. Robinson, BA *Cont* (Volta Hall), (Legon Hall); S. K. B. Asante, BA *Law* (Akwafio Hall), (Commonwealth Hall)

OVERSEAS OFFICE: W. G. Sewell, MSc *Leach*, Asst. Registrar (Overseas)

## COLLEGE IN SPECIAL RELATIONSHIP

UNIVERSITY COLLEGE OF CAPE COAST, Private Bag, Cape Coast, Ghana. 90 miles W of Accra, the coll. will provide courses approved by the Univ. of Ghana which, under a scheme of spec

relationship, lead to degrees of that univ. The first students are being admitted in Oct. 1962. Principal—C. A. Aduah, MA PhD *Law*. Registrar—K. A. Obese-Jetty, BA *Law*

## GENERAL INFORMATION

The univ. is an independent instn., governed by a council which was incorporated by the Univ. Act 1961 (Act 79 of Aug. 22, 1961). It grew out of the Univ. Coll. of Ghana which existed between 1948 and 1961.

**CONSTITUTION.** The academic bd. consists of all profs and hds. of depts., hrs. of insts. and schools, profs., assoc. profs. and one elected representative of a dept. The fac. bds., the finance cttee. and other bodies, all consist of members of the academic bd.

**INCOME (1960-61).** Total: £1,006,700 (govt. grant, £865,000; fees, £75,200; other income, £66,500)

**FACULTIES.** Agric., arts & soc. studies, sci.

**UNIVERSITY PREMISES.** All depts. and all students are housed in new bldgs. on the post-nominate site at Legon, an area of 5 sq. miles near Accra, presented by the govt. The first phase of devel. to be completed in 1963, provides for a fully residential coll. of 1000 students. The ultimate devel. is planned for 5000 students.

**LIBRARY.** 150,269 vols., more than 3394 periodicals are taken. African collection.

**BOTANICAL GARDEN.** GEOPHYSICAL RES. STN. AGRIC. RES. STNS. at Nungur, Kade and Kpong.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). Provides 1-vi courses for grade- and non-grade. (see 'Certificates', below)

**INSTITUTE OF PUBLIC EDUCATION** (see also 'Teaching Staff', above). This new national inst. will take over the functions of the Inst. of Extra-Mural Studies of the Univ. of Ghana and the People's Educn. Asscn. The inst. will under the Council for Higher Educn. provide pt-time degree courses of the Univ. of Ghana and the Kwame Nkrumah Univ. of Sci. and Technol. in workers' colls. and adult residential colls.

**ADMISSION.** The requirements for admission are expressed in terms of the General Cert of

Education and are the same as those of the Univ. of London (see Appendix III). Admission is open to men and women of all nationalities.

**FIRST DEGREE.** All students must take a common 1st-yr. course in either arts or sci. Thereafter, a 2-yr. course leads to BA gen., BA hon. (in classics, div., Engl., French, geog., hist., philos., sociol.), BSc(Agric), BSc(Econ), BSc gen. and a 3-yr. course to BSc spec. (in bot., chem., geol., maths, phys., zool.)

**HIGHER DEGREE.** The univ. will award master's degrees in arts and sci., details of which are under discussion.

**CERTIFICATES.** 1 yr.—postgrad. cert. in educn., associate cert. in educn. (for experienced non-grad. teachers only), 2 yrs.—cert. in soc. admin. (for experienced soc. workers).

**FEES.** Inclusive fee for tuition and residence for undergrads., £100 p.a.; for postgrad. students, £200 p.a.

**ACADEMIC YEAR.** 3 terms of 10 weeks each 1962-63—Michaelmas: Oct. 10 to Dec. 7, Lent: Jan. 4 to March 30; Trinity: April 19 to July 6.

**LANGUAGE OF INSTRUCTION.** English

**STUDENT RESIDENCES.** All students are required to reside full-time in coll., undergrads. for at least 3 yrs. There are 4 halls of residence (for hds., see 'Admin. and Other Staff', above). For men: Legon Hall (180 students), Akwafio Hall (180), Commonwealth Hall (280). For women: Volta Hall (ultimately about 150).

**STAFF RESIDENCES.** Staff accomm. provided by the coll. at a charge not exceeding 7.5 per cent of salary.

**PUBLICATIONS.** *Annual Report, Universities* (three yrls.), 28.

**UNIVERSITY BOARDSHIP**



## THE YEAR 1961

**RESIGNATIONS** E. T. Ababuo (Lagon Hall, busser), apptd. dep. chief exec. officer, Ghana Supply Commission; Sir Francis Astley (classics); Dr. R. V. Athende (asst. librarian), apptd. librarian, U. of Nigeria; Dr. P. T. W. Baxter (sociol.); H. J. Bevin (econ.), W. B. Birmingham (econ.), apptd. as lectr., Leic.; F. R. Bury (agric.); Mrs. Freda Brown (zool.), Dr. G. N. Brown (Inst. of Educn.), apptd. as lectr., U.C., Ibadan; Mrs. Brenda M. Cohen (philos.), C. D. Cohen (econ.); D. H. Constable (agric.), G. G. Corbett (agric.), Prof. A. Curle (Inst. of Educn.); Mrs. R. V. Delattre (asst. librarian), M. Domuena (registrars), Prof. J. G. St. Clair Drake (sociol.), returned to Roosevelt U. at end of period of secondment; D. Finckland (sociol.), N. C. V. Fry (agric.); P. C. Garlick (econ.), Prof. P. Herbert (philos.), Dr. P. Heymans (maths), apptd. lectr., U.C. of West Indies; Dr. Gladys M. Hickman (educn.), returned to Univ. at end of period of secondment; Dr. M. J. Hollingsworth (zool.), apptd. lectr., St. Bartholomew's Hosp. Med. Coll., Lond.; Dr. S. H. Hymer (econ.), apptd. asst. prof., MIT; Dr. H. O. Jarratt (agric.); Dr. D. H. Kerridge (chem.), T. J. Landsbury (agric.), Dr. D. E. S. Maxwell (Engl.), apptd. dir. of exams, Civil Service Commission, London; T. A. Menash (asst. registrar); G. E. Metcalfe (hist.), G. Mostann (agric.); Dr. J. K. Morton (bot.); Dr. B. M. Niculescu (econ.); E. M. Nyenhuis (agric.), Prof. J. F. V. Phillips (agric.); H. J. Price (econ.); Dr. F. L. Pritchard (Inst. of Educn.); E. R. Rado (econ.); D. Rimmer (econ.), Dr. L. Rubin (law), H. A. Rydings (sub-librarian), apptd.

librarian, H.K., Dr. W. G. Siskier (bot.), G. I. Smith (provost); Prof. R. T. Smith (sociol.); Dr. R. H. Soughton (principal), Miss A. E. Walker (librarian), Prof. G. Walton (Engl.), apptd. prof. of Engl., Makerere U.C., Dr. H. W. Wardman (French), apptd. as lectr., W. Aust.; J. Westerhant (agric.), Prof. J. W. Williams (econ.), apptd. prof. of econ., Otago

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	620	—
Women	62	—
Total	682	—

Distribution by Faculties. Agric, 33, Arts, 288; sci., 96, soc. studies, 265 Total 682.

Included in the figures above are —

Postgraduate students, 12 (incl. students for postgrad. cert. in educn.)

New admissions, 256

Students from other countries, 86 (Countries from which largest numbers came: Nigeria, 64; U.S.A., 10)

**DEGREES AWARDED** (sp. relationship with Univ. of London\*) (1960-61). BA gen., 13, BA hon., 51, BD, 7, BSc(Econ.), 22, BSc(Soc.), 4; BSc gen., 24; BSc spec., 16; BSc(Agric.), 11.

**CERTIFICATES AWARDED** (1960-61). By Coll. soc. admin., 11, assoc. cert. for non-grad. teachers, 15, baccalaureate in theol. cert., 5 By Univ. of London: educn., 13

\* For a note on these 'special relationship' arrangements, see p. 2074



Greenet, D., BScTech <i>Admc.</i>	Sr Lectr	Pillay, Mrs M S, MPharm <i>Lead.</i>	
Holdsworth, B, BSc <i>Lead.</i>	Sr Lectr.	BPharm <i>Math.</i> , BSc <i>Rhoder</i>	Lead.
Cassia, V. O., BSc BSc(Eng) <i>Lead</i>	Lectr.		
Knaght, B.	Lectr	<b>Science</b>	
Myers, J. A	Asst Lectr	Whittaker, K C, MA DipEd <i>Oxon.</i>	
		BSc <i>Lead.</i>	
<b>Engineering, Mechanical</b>			Hd of Dept
Williams, A., BSc PhD		Kufusa, F A, BSc PhD <i>Burr</i>	Assoc Prof
Cripps, J. J, DIC, BSc(Eng) <i>Lead</i>	Sr Lectr	Humphrey, C A., MA <i>Oxon</i> , DipEd	Sr Lectr
Smith, N. R., BSc(Eng) <i>Lead.</i> , BSc	Sr Lectr.	Landay, J E O., BSc <i>Admc.</i> , DipEd <i>Lead</i>	
Buckerfield, G. M.	Lectr		Sr Lectr
Quansah, W. A., BSc BSc(Eng) <i>Lead.</i>	Lectr.	Barry, D H., BSc <i>Lead</i>	Lectr.
Evans, L. F.	(Ceramics) Lectr.	Kootin-Samra, M., BSc <i>Lead</i>	Lectr
Moore, T. S., BEng <i>Lea</i>	Lectr.	Taylor, A. M., MA <i>Oxon</i>	Lectr
Richards, W. J., BSc(Eng) <i>Lead</i>	Lectr	Klaver, Rev Fr C J, BSc <i>N.U.I</i>	Lectr
Gott, J., BSc(Eng) <i>Lead</i>	Lectr	Abbiw-Jackson, D K, BA <i>Cambr.</i>	
McKenzie, D., BSc <i>Edin</i>	Lectr	BSc <i>Lead.</i>	Lectr.
Furran, R. A., ARSM, DIC, BSc(Eng) <i>Lead</i>		Barnes, S. O., BSc <i>Lead</i>	Lectr
	Asst. Lectr	Hallett, J. D., BSc <i>Lead</i>	Lectr.
Casely-Hayford, L., MSc Tech <i>Man.</i>		Dadson, V. C., BSc <i>Lead</i>	Lectr
	Asst Lectr	Allotter, F. K. A., DIC	Lectr
Wynne-Wynne, E. R	Asst. Lectr	Oteng, R., BSc <i>Lead</i>	Lectr
3 Tech. Instrs	Asst. Lectr	Patel, A. N., PhD <i>Lead</i> , BSc <i>Calc.</i>	Lectr
		Biswas, B., PhD <i>Cambr.</i> , MSc DPhil <i>Cole</i>	Lectr
<b>Fine Art</b>		Dwyson, A., BSc PhD <i>Edin</i>	Lectr
...		Mazumber, T., MSc <i>Calc</i>	Lectr
Ashene, E. V	Hd of Dept	Darwomoo, P., BSc <i>Lead.</i> , MSc <i>Indusna</i>	Lectr.
Mvusi, S. C., BA	Assoc. Prof	Tewah, T. K., BSc <i>Lead.</i>	Lectr.
Dobson, D. K	Lectr	Kaufmann, Miss T., BA	Lectr.
Armstrong, Miss S. H	Lectr.	Windsor, Miss I. M., BSc <i>MS</i>	Lectr.
Grant, Mrs P.	Temp. Lectr.	Holten, R. P.	Lectr
1 Tech. Instr	Asst Lectr	Postage, R. H., MA <i>Cambr</i>	Lectr.
		Berland, B	Lectr.
<b>Pharmacy</b>		Amush, J. K., BSc HDipEd <i>N.U.I</i>	Asst. Lectr.
Almon, E.	Hd. of Dept.	Ahifa, A. K., BSc <i>Lead</i>	Asst. Lectr.
Caldwell, A. F., BPharm <i>Lead</i>	Sr. Lectr.	1 Tech. Instr	
Gyang, E. A., BPharm <i>Lead</i>	Lectr.	<b>Service</b>	
Tadon, A. N., BPharm <i>Lead</i>	Lectr.	Kotel, N. A., BA <i>Lead.</i>	Lectr.
Hennan-Ackah, S. M., BPharm <i>Nott.</i>	Lectr	Graham, C. K., BA <i>Lead</i>	Lectr.
		Prab, D. W., MA <i>St And. &amp; Colerado</i>	Lectr.
		DipEd <i>Lead</i>	Lectr.

#### ADMINISTRATIVE AND OTHER STAFF

Dep Registrar: V. O. D. Twum-Barima, BA  
Lead Sr Asst. Registrars: E. A. Bannoo,  
W. P. K. Akoto, BA, Lead Asst Registrars  
(London Office) J. A. Ata, BA, Lead; E. A.  
Accum, BSc(Econ) Lead; T. B. B. Seky, BSc  
Lead Admin. Officer. W. Hart Plange, Ac-  
countant E. A. Odonkor, Cost Accountant.

B. C. F. Løkke. Med. Officers. E. W. Q. Bennerman, MB ChB Edin., N. O. Kwao, MB BS Dork. St. Architect. M. Marasovic. Dep. Sr. Architect. J. Owusu-Addo. Struct. Engineer. F. S. B. Jacobson. Chaplain. Rev. G. K. Sentim-Mias, BD Lond. Dep. Librarian. Mrs. R. D. E. Young. FLA.

## GENERAL INFORMATION

The Kumasi Coll. of Technology was establd. as the Kwame Ninsin Univ. of Science and Technology, from Sept. 30, 1961.

Established by govt ordinance in Oct 1951, the coll, opened in 1952 with 200 teacher trng. students in residence; later in 1952 the first engin. and comm. students were admitted. In 1953 courses in pharm. and agric began and in 1957 the sch. of archit., town planning & bldg. was inaugurated. As the coll expanded, it became necessary to

remove the teacher trig. courses (in 1958) and the comm. dept. (in 1959) to Winneba and Achimota respectively. Arts dept. transferred to Univ. Coll. of Cape Coast (see p. 143) in 1962. It was in 1959 that students of the coll. first gained external BSc(Eng) degrees of the Univ. of London.

**CONSTITUTION.** Governing council consists of chancellor, vice-chancellor and chairman of univ. council; 4 persons apptd. by chancellor; acc. of

Natnl Council for Higher Educn; 1 rep of hds. of sci. schs., 1 person elected from st. staff of an African univ., 1 person elected from a univ. outside Africa, 4 persons elected by the univ.

INCOME (1960-61) £G894,714 Funds for capital devel. £G225,119.

FACULTY AND STAFF Engng, Prof C Levine (civil engin.)

SCHOOLS Agric., archit, town planning & bldg., fine arts Institut of community planning.

UNIVERSITY PREMISES. Situated 4 miles from Kumasi on a 4 square-mile campus, the univ. has 4 permanent halls of residence for men (accommodate 200 each), and a temp. hall for women. There are also: 4-storeyed gen. lecture block, 2 engin. workshops, pharm. block, 2 sci. blocks, admin. block, lib. bldg. and facilities for sports & athletics. Univ. is non-denominational but there are a chapel for Protestants and Roman Catholics. Extensive bldg. programme to meet the needs of the new univ. incl. hall of convocation, admin. halls of residence, and gym.

LIBRARY. Over 30,000 vols.

LABORATORIES Agric., bot., bldg. res., chem., engin., maths, phys., radio res., zool.

ADMISSION. For admission to prelim. courses in sci. dept. which prepares students for entry to pt. I of BSc(Eng), pharm. and agric. degree

courses, G.C.E. ordinary level or sch. cert. with min. of 5 credits required. For direct entry to BSc(Eng), pharm. and agric. degree courses, higher sch. cert. or G.C.E. advanced level required. For degree course in archit, town planning & bldg., sch. cert. with 5 credits. No exemption from any pt. of course. All students must take pre-professional course before commencing degree course.

FIRST DEGREE 4 yrs.—BSc(Eng). Also degree courses in agric., archit, town planning & bldg.; pharm.

STUDY LEAVE Ghanaian staff members granted leave to study overseas for postgrad. qualifs. to fit them for sc. posts in the univ.

FEES (incl. tuition & boarding) £G200 p.a.

ACADEMIC YEAR Oct.—June

LANGUAGE OF INSTRUCTION English

RESIDENCE. All students and almost all staff accommodated on campus.

HEALTH SERVICE. Univ. hosp. provides med. facilities for students and staff.

STUDENT ACTIVITIES At least 18 student societies approved by academic bd., all student activities being co-ordinated by student council. Sports: athletics, basket-ball, cricket, football, hockey, net ball, table and lawn tennis, volleyball.

PUBLICATIONS. Calendar, Journal

## THE YEAR 1961

PRINCIPAL BENEFICIARIES Natnl. Res. Council, £17,622 for res. into properties of native herbs.

MAJOR BUILDING DEVELOPMENTS. Bldgs. completed: univ. hall; engin. lecture block. Approaching completion: new admin. block, sports stadium; extension to hosp., 15 sr. staff houses.

NEW CHAIRS Personal: dem. fac. of engin. (C. Levine); electr. engin. (J. A. Lyddiard); agric. (K. Twum-Baiaima).

RESIGNATIONS Commander S. Dickinson (vice-principal, K.C.T.), A. B. Attafu (registrars); E. Amis (res. fellow, music); B. E. Towison (ld. dept. of sci.); A. B. James (sr. lect., surv.), R. C. Wallace (sr. lect., workshop practice); W. Tucker (lectr., electr. engin.); G. E. Kossiff (sr. lect., civil engin.).

RESIGNATIONS Mrs. H. C. Hull (asst. registrar); R. G. Nollan (electr. engin.); J. A. Mokuena (maths.), apptd. sr. lectr., Zaria Coll. of Sci. & Technol.

HONORARY DEGREES. DSc—R. P. Baffour, vice-chancellor

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	500	4
Women	9	—
Total	509	4

Distribution by Faculty and Schools, etc. Agric., 62, archit., 44, bldg., 20; engin., 174, fine art & crafts, 22; pharm., 26, sci., 118, surv., 33, town planning, 14. Total: 513.

Included in the figures above are—

Postgraduate students, nil.

New admissions, 103

Students from other countries, 20 (Country from which largest number came: Nigeria, 17)

DEGREES AWARDED (Univ. of London external) (1960-61) BSc(Eng), 13

DIPLOMAS AWARDED (1960-61) Agric., 8, bldg., 5; fine art & crafts, 3



# HONG KONG

University of Hong Kong (p. 450)

## UNIVERSITY OF HONG KONG\*

Founded 1911

Postal Address: Hong Kong

Telegraphic Address: University, Hong Kong

Telephone: Hong Kong 432121

PATRON—H M THE QUEEN

CHANCELLOR—H E THE GOVERNOR OF HONG KONG

VICE-CHANCELLOR—SH LINDRAY RIDE, CBE, JP, MA DM Oxon, Hon LLD Trin

PRO-VICE-CHANCELLOR—Professor F E STOCK, OBE, JP, MB BS Lond, FRCS, FACS

TREASURER—W C G KNOWLES, JP, BA

REGISTRAR—B. MELLOR, JP, MA Dip Ed Oxon

BURGESS—A. W. WILSON

LABRADORIAN—H A RYDINGS, MBE, MA Oxon

## TEACHING STAFF

(† = Part-Time)

## Anatomy, see Medicine

## Architecture

Gregory, W. G., BArch Lit.

Hollmann, H. G.

Nedberg, B.

Wong, C. H., MCD Lond, BArch Sus

Yat Sen

Kwan, C. W. BSc(CE) San Yat Sen,

MS(SE) Purdue

Mayne, Mia. Patricia, BArch Dnb

Burtles, C. J., BArch Lit.

Reed, P. A., BArch Manc.

Lam, C. W., BArch

Wang, C. Y., BA Natl Fish Tan

1 Studio Instr

## Biochemistry, see Medicine

## Botany

Stanton, H., BA PhD Camb.

Stephen, R. C., BSc PhD Aberd

Chau, Miss Bok-to, BSc Lond.

Chen, Miss Spring, BSc PhD Lond.

Turner, P. D., MSc Camb., BSc PhD Lond

Dhillon, T. S., MSc Pany, PhD Chic

Chang, Miss Yung, BSc

Chu, Myra, BSc Nanhu

Lim, Miss Elvera, BSc

Yue, S. B., BSc

## Chemistry

Miller, J., BSc PhD Lond.

Arthur, H. R., BSc Med., MSc W Aust,

FRACI (Org C) St. Lectr.

Hall, D. L., DIC, BSc PhD Lond

(Phys C) St Lectr.

Collins, Mrs Dorothy A., MSc Lev,

FRIC Lectr.

Chan, S. C., MSc

Hui, Miss Wai-han, BA MSc Asst. Lectr.

Lai, Miss Ting Fong, DPhil Oxon., MSc

Cheung, K. K., BSc Asst. Lectr.

Demi.

## Chinese

Drake, F. S., OBE, BA BD DipEd

DipGeog Lond Prof.

Lou, P. M., LB Hesse, BA Harv &amp; Nanhu

Sr Lectr.

Lo, H. L., BA Tung Hsu

Jao, T. I. Lectr.

Ma, M., BA Yenchiang

Yu, P. K., BA San Yat Sen, MA Wash. Lectr.

Mou, T. S., BA Peking Lectr.

Yang, V. T., BCom Edin Asst. Lectr.

Lo, C. T., MA DLitt Taiwan Asst. Lectr.

Lectr.

Economics and Political Science

Kirby, E. S., BSc(Econ) PhD Lond. Prof.

Hsu, R., BA Peking, PhD S. Calif. Sr. Lectr.

Davies, G., BSc Wales, PhD Lond. Lectr.

Matthews, J. W., BSc(Econ) Lond. Lectr.

Lethbridge, H. J., BSc(Econ)

BSc(Sociol) Lond Lectr.

Hsueh, S. S., BA Peking, DScPol Geneva

Lectr.

\* Member of the Association of Universities of the British Commonwealth

McKenzie, M. M., B.A.Sc. Br Col, MBA Stan.	Asst. Lectr.	Chang, Mem. BA	Tutor
		Lowcock, J. L., BA	Tutor

**Education**

Henderson, N. K., BA MEd MEd, PhD Lond.	Prof.
Simpson, R. F., BSc MA Lond	Lectr.
Wright, Beryl R., BSc Syd	Lectr.
Li, Mrs. Anita K., BA Lake Forest, DipEd Psychol Burm.	Lectr.
Young, Mrs. Wang Man Shung, BA Natul. Centrl (Nanking)	Lectr.
Rose, J., BSc Lond., CertEd Brit	Lectr.
Yapp, Mrs. Harriette, BA DipEd	Lectr.
Lee, Miss Gemma G. H., BA Beloit, DipEd	Asst Lectr

**Engineering, Civil**

Mackey, S., ME BSc NUI, PhD Lond., FGS	Prof.
Lumb, P. DIC, MSc(Eng) Lond., FGS	Lectr.
Chen, L. K., BSc St John's (Shanghai), BSc MSc Ill.	Lectr.
Battery, J. J., ME N.U.I., PhD Lond.	Lectr.
Leung, K. W., MSc(Eng)	Lectr.
Wong, K. C., DIC, PhD Lond., BSc(Eng)	Lectr.

**Engineering, Electrical**

King, S. Y., DIC, PhD Lond., BSc(Eng)	Reader
Loh, S. C., BSc PhD Lond.	Lectr.
Leung, W. S., BSc(Eng) Lond., PhD Lond.	Lectr.
Ho, K. W., BSEE Yang Hua, MSEE Purdue, PhD Cms	Lectr.
Yu, P. K., BSc Lingnan	Asst Lectr.
Ma, R. Y. P., BSc(Eng) Lond.	Electronics Engineer

**Engineering, Mechanical**

Smith, W., MSc Mans.	Reader
Fang, P. S. K., BSc Chiao Tung, BSc Manc., MEng McG	Lectr.
Wong, D. K. C., BSc(Eng)	Lectr.
Hui, C. Y., DIC, BSc(Eng)	Asst Lectr.
Lung, Y. S., BA Sun Yat Sen	Asst. Lectr.

**English**

Blunden, E. C., CBE, MC, MA Oxon., Hon. DLitt Lond., FRSL	Prof.
Groom, A. W. T., MA Oxon (Linguistics) Sr. Lectr., Hd of Dept	Lectr.
Yau, Mrs. Mary, MA BLitt Oxon	Lectr.
Harde, A. M., MA Oxon.	Lectr.
Rooke, Barbara E., MA Oxon., PhD Lond.	Lectr.
Yu, Margaret, PhD Marquette, Dip(Engl) Stud Edin., BA	Lectr.
Blunden, Mrs. Claire M., MA DipEd Oxon	Lectr.
Yick, Monica, MA Lond., BA	Asst Lectr.
Needham, J. D., BA Oxon.	Asst Lectr.
McLachlan, W. I., BA Oxon	Asst Lectr.
Kwok, Mrs. Helen, BA	Asst Lectr.
Sun, Mrs. Amelia, DipES PhD Edin., BA	Asst Lectr.

**Geography and Geology**

Davis, S. G., PhD MSc Lond., FGS	Prof
Llewellyn, J., MSc Wales, FGS, FRAI	Sr Lectr.
Dwyer, D. J., BA PhD Lond	Lectr.
Shepherd, A., MA Oxon	Lectr.
Giant, C. J., MA PhD Edin.	Lectr.
Talbot, H. D., BSc Lond	Lectr.
So, C. L., MA	(on leave) Asst Lectr.
Lee, D. C. Y., BA	Demar.
Lo, C. W., BA	Demar.
Pan, K. S., BA	Demar.

**History**

Harrison, B., MA Dub.	Prof
Cassidy-Bryng, J. L., MC, MA	Sr Lectr.
DipOrientalLang Camb	Lectr.
Young, L. K., BA Birm & Oxon., DPhil Oxon	Lectr.
Blackmore, M., MA Camb	Lectr.
Hauch, C. T., MA PhD Cal	Lectr.
Le Favour, E., BA Chic., MA NUI, PhD Camb	Asst Lectr.
Ng, P. Y. L., MA	Asst Lectr.

**Mathematics**

Wong, Y. C., BSc Sun Yat Sen, PhD DSc Lond.	Prof
Leung, K. T., DPhil Ztir	Sr. Lectr.
Maunder, W. F., BSc(Econ) PhD Lond (Stats.)	Sr. Lectr.
Leung, K. V., IngDoc Paris	Lectr.
Tsao, S. T., BSc Sun Yat Sen, PhD Ldn	Lectr.
Chen, Mrs. Dora, BSc Sun Yat Sen, MSc PhD Lond.	Lectr.
Hui, C. S., DIC, SM Harv., BSc(Eng) (Stats.)	Asst Lectr.
Chen, Y. M., BSc Chiao-Tung, DSc Hokkaido	Asst. Lectr.
Tseng, P. B. Y., MA MSc Calif., BSc	Asst Lectr.
Yao, T. H., DipMath Gatt, BSc	Asst Lectr.
Yung, S. H., BSc Fokien Christ U	Asst Lectr.
Hsu, C. S., DSc Natul Taiwan	Demar.

**Modern Languages**

Thompson, R. W., MA Dub	Sr Lectr.
Castel, A. P. A., L&L DipEdt'EtSup DESdeDroitPub&Prive Paris	Lectr.
Boali, C. D., MA PhD Camb	Lectr.
Hillen, Sr. E. H.	†Lectr.

**Oriental Studies, see below****Philosophy**

Agazzi, J., MSc Jerusalem, PhD Lond	Reader
Kvan, Rev. E., CandTheol Copenhagen	Lectr.
Jarvis, I. C., BSc(Econ) PhD Lond.	Lectr.



**Physics**

Chestnutman, W. D., DSc <i>Brit.</i> , FIP	Prof	Todd, D., MD, MRCPed	Lectr.
Wang, C. P., MSc PhD <i>Malaya</i>	Sr. Lectr.	Young, Rosie T. T., MD, MRCP	Lectr.
Hui, P. M., PhD <i>London</i> , BA	Lectr.	Aquinas, Sr. Mary, MB BCh <i>N.U.I.</i>	(TB) † Lectr.
McLean, I. W., BSc <i>Adel.</i>	Lectr.	Chow, G., DTM&H <i>Liv.</i> , MD, MRCP	(Chin. M.) † Lectr.
Silverston, D. A., BSc <i>Leint.</i> , PhD <i>Edin.</i>	Lectr.	Ho, H. C., MB BS, FRCP	(Radiol.) † Lectr.
Walker, G. O., MSc <i>Leeds</i>	Lectr.	Yap, P. M., MA MD <i>Camb.</i> , DPM <i>London</i>	(Mental Dis.) † Lectr.
Lee, A. H., BA <i>Inter. Christ Univ Tokyo</i>	Demr.	Yeoh, G. E., MB BS	(Infectious Dis.) † Lectr.
Lee, C. C., BSc <i>St. John's (Shanghai)</i>	Demr.	Fok, F. P. T., MD <i>Frank.</i> , MRCP,	
Watt, J. C. Y., BA <i>Oxon</i>	Demr.	MRCPed, MB BS	Asst. Lectr.
Yu, R. M., BSc	Demr.	Chow, Y. N., MB BS	Asst. Lectr.

**Political Science, see Econ. and Pol. Sci.****Zoology**

Phillips, J. G., BSc PhD <i>Lea.</i>	Prof		
Thornton, L. W. B., BSc PhD <i>Leeds</i>	Sr. Lectr.		
Strahan, R., MSc <i>W. Aust.</i>	Lectr.		
Hill, D. S., BSc <i>Hull</i>	Lectr.		
Marshall, A. T., BSc <i>Leeds</i>	(on leave) Asst. Lectr.		
Chun, N. K., MSc	Asst. Lectr.		
Aldridge, Patricia M., BSc <i>Manch.</i> , PhD <i>London</i>	Asst. Lectr.		
Madsen, P. F. A., BSc PhD <i>London</i>	Asst. Lectr.		
Adal, M. N., MSc	Demr.		
Ip, M. C., MSc	Demr.		
Lee, S. S., BSc	Demr.		
Wong, Miss Su Kai, BSc	Demr.		

**MEDICINE****Anatomy**

Chang, K. S. F., MSc <i>St. John's (Shanghai)</i> , PhD <i>Corn.</i>	Prof		
Mancey, R. B., MSc <i>Liv.</i> (Histol.)	Sr. Lectr.		
Lee, Margaret M. C., MD <i>W. China Univ.</i>	Lectr.		
Lee, R. H. S., MBE, MB BS	† Lectr.		
Chan, Mrs. Shuk-tsz, MB <i>Natal</i> , Chung <i>Cheng Med Coll.</i>	Asst. Lectr.		
Lau, Miss Hung-Ching, BSc <i>Soo Yot Sen</i>	Asst. Lectr.		
Chan, S. J., MB <i>Lingnan</i>	Demr.		
Low, W. D., BSc	Demr.		
Miao, W. C., MB <i>Lingnan</i>	Demr.		
Ng, C. K., MB <i>Lingnan</i>	Demr.		
Poon, K. T., MB BS	Demr.		
Yuen, H. M., MB <i>Shanghai</i>	Demr.		

**Biochemistry**

Welsh, E. O'F., BSc PhD <i>London</i> , FRIC	Prof.		
Gray, Dennis E., BA MSc PhD <i>W. Ont.</i>	Sr. Lectr.		
Chisholm, J., BSc PhD <i>Glas.</i>	Asst. Lectr.		
Huang, Miss Yang-yu, BSc MD <i>St. John's (Shanghai)</i>	Asst. Lectr.		
Lee Peng, Mrs. C. H., BSc <i>Natal</i> , <i>Cheung, MS Kent State &amp; Col.</i>	Demr.		

**Medicine**

McFadden, A. J. S., MD <i>Glas.</i> , FRCP	Prof.		
Field, Constance E., MD <i>London</i> , FRCP	(Prod.) Prof.		
Wong, C. C., MB BS <i>London</i> , MRCPed	Sr. Lectr.		

**Obstetrics and Gynaecology**

Chan, Daphne W. C., OBE, MB BS, FRCSed, FRCOG	Prof		
Braga, Carolina A., MB BS	Lectr.		
Chan, D. P. C., MB BS, FRCSed, FRFPGlas	Lectr.		
Kan, P. S., MB BS	Lectr.		
Banwell, G. S., MB BCh <i>Camb.</i> , FRCS	† Lectr.		
Chow, C., MB BS	† Lectr.		
Tsao, Y. K., MB BS	† Lectr.		
Tso, Edith H. Y., BS <i>Yenching, MD Peking Union Med.</i>	† Lectr.		
Lu, Theresa, MB BS (on leave)	Asst. Lectr.		
Chung, Miss Ho Kuei, MB BS	Asst. Lectr.		

**Orthopaedic Surgery**

Hodgson, A. R., MB ChB <i>Edin.</i> , FRCSed, FACS	Prof.		
Brodetti, A., MD <i>Naples</i>	Lectr.		
Pang, S. Y., MChOrth <i>Lon.</i> , MB BS, FRCSed	† Lectr.		

**Pathology**

Kirk, R., OBE, BSc MD <i>Glas.</i> , FRCP, FRFPGlas	Prof		
Tech, T. B., PhD <i>Leeds</i> , MB BS	Sr. Lectr.		
Huang, C. T., MB <i>Lingnan</i> , PhD <i>Leeds</i> (Bacteriol.)	Sr. Lectr.		
Young, R. S., BA BCh BAO MD <i>Dub.</i> (Chin. P.)	Sr. Lectr.		
Ma, L., BSc <i>W. China Univ.</i> , PhD <i>Leeds</i>	Lectr.		
Pang, Lillian, BS MD <i>Shanghai</i> , PhD <i>Leeds</i>	Lectr.		
Wong, Mrs. P. C., MB <i>Lingnan</i> , PhD <i>London</i>	Lectr.		
Pang, T. C., MD	† Lectr.		
Lee, F. K., MB BS	† Lectr.		
Ong, F., MB BS	† Lectr.		
Mallett, Barbara, BSc <i>Oxon</i>	Asst. Lectr.		
Chan, Miss Chung Hsun, MB <i>Lingnan</i>	Asst. Lectr.		
Chak, S. P., MB <i>S. China Med. Coll.</i>	Demr.		
Chow, S. Y., MB <i>Lingnan</i>	Demr.		
Chan Tse, Grace, BSc <i>Q'ld.</i>	Demr.		
Lee, S. H., MB <i>Wahau</i>	Demr.		
Tso, T. O. T., MB BS	Demr.		

## Physiology

Cheng, K. K., PhD Lond, MB BS	
Haeh, C. L., BSc MD St John's (Shanghai)	(Physiol.) Prof
Grubert, C. C., BS MD Mich, PhD Syr	Sr Lectr.
Bard, S. M., MB BS	(Pharmacol.) Lectr
Liang, C. C., BSc Yang Hsu, PhD Lond	Hon Lectr
Ch'iu, C. C., MB Sw Yat Sen	Asst Lectr
Li, K. M., BSc Nanking	Asst Lectr
Mo, P. M., MB Lingnan	Demr

## Preventive and Social Medicine

Teng, P. H., OBE, DPH Lond, MB BS	[Prof
She, Louise, BA Yenching, MA Mich	Lectr
Pun, Miss Su-Fun, MA Cal, BA	Asst Lectr
19 Lectrs & Demrs	

## Surgery

Stock, F. E., OBE, JP, MB BS Lond,	
FRCS, FACS	Prof
Hui, K. K. L., MB BS, FACS	Sr Lectr.
Pung, J. H. Y., MB BS, FRCS, FRCSed,	Lectr
PACS	Lectr
Young, M. H., MB BS, FFARCS	Lectr
Li, F. W. O., MB BS, FRCS, FRCSEd	Lectr
8 Lectrs	

## INSTITUTE OF ORIENTAL STUDIES

Drake, F. S., OBE, BA BD DipEd	
DipGeog Lond	Dir.
Lau, M. W. M., MA Harv., BA	
Ng, Mrs Ella, BA	Asst Museum Curator
Ma, M., BA Yenching	Admin Asst
Chow, Mrs Josephine, BA Glasgow	Principal of Long Sch
Chou, H., BA Yenching	Instr
Lou, F. H., BSc Peking, MA Cal	Instr
Lou, S. C., BA Harv., MA Calif	Instr
So, M. Y., LLB Sw Yat Sen	Instr
Wu, Mrs Yu Lan, BA Yenching	Instr
Lau, S., BA Sw Yat Sen	Instr
Chung, Mrs Anne, BA Nanking	Instr
Shih, W. C., BA Natal Normal (Peking)	Instr
Tang, Miss Shih Hsin	Instr
Woo, Mrs Phoebe C., BA Doh Hsu	Instr
Woo, W., BA Nanking	Instr
Chau, Mrs Margaret, BA Natal Normal	
(Peking)	† Instr
King, Mrs Hung Yeh, BA Natal Normal	
Shih, Miss Alice	† Instr
Yen, Mrs Joyce, BA Goulton	† Instr
Liang, Miss Pao Hsien, BA Sw Yat Sen	† Instr
Tse, Miss Donnie, BA Canton	† Instr
8 Temp Instrs	

## EXTRA-MURAL STUDIES

Hughes, I. W., LLB Wales	Dir
Lau, T. C., MA	Asst. to Dir.

## ADMINISTRATIVE AND OTHER STAFF

Dep Registrar: R. N. Jackson, MA Camb.  
 Dep. Bursar: N. Gillanders. Asst. Registrars:  
 P. W. M. Cheung, OBE, BSc Oxon., BA; Mrs  
 Ellie Alleyne, BLitt Oxon., BA. Asst. Bursar:  
 C. G. Lange, Admin Asst., N. H. Young,  
 CertEd Lond., BA; H. C. Lam, BA, Betty  
 Chou, BA. Dep. Librarian: G. W. Bonnell, MA  
 Camb. Asst. Librarians: Mrs Dorcas Hu, BA;  
 Miss Lu-bing Kan, MA MLSc Calif, BA. Ac-  
 countant: W. S. Chen. Maintenance Engineer:  
 M. Antonoff. Planning Engineer: E. Wong  
 Tape, BSc(Eng). Controller of Gdys.: C. W.  
 Pan, BSc(Hort) Nanking. Univ. Health Officer:  
 S. M. Bard, MB BS. Asst. Univ. Health Officer:  
 Irene Osmond, MB BS. Dir. of Physical Educn.

J. H. Duthie, MC. Asst. to Dir. of Physical  
 Educn. W. K. Low, CertEd Nott. Publisher to  
 Univ. Press. H. Vetch.

WARDENS OF HALLS OF RESIDENCE. (Men):  
 (May Hall), W. K. Low, CertEd Nott.  
 (Lagard Hall), J. Llewellyn, MSc Wales, FGS,  
 FRAI (University Hall); D. L. Rogers, BA Leeds  
 (Morrison Hall), C. Barrett (Rice Hall); Rev  
 E. Kvan, CandTheol Copenhagen (St. John's  
 College); S. G. Davis, PhD MSc Lond, FGS  
 (Hornell Hall, non-residential). (Women): Mrs.  
 Mary Vuck, MA BLitt Oxon. (Lady Ho Tung  
 Hall), Mrs Dorothy A. Collins, MSc Lie,  
 (Duchess of Kent Hall, non-residential)

## GENERAL INFORMATION

In 1887 Sir Patrick Manson, GCMG, started the Hong Kong Coll. of Medicine for the Chinese in the Alcock Memorial Hosp. opened the same yr as a London Missionary Soc. foundation. As students of non-Chinese other than Chinese began to join the coll., the words 'for the Chinese' were struck out of the title in 1907, and the institution was incorporated as 'The Hong Kong College of Medicine'

The coll. offered to amalgamate in a univ., and in March 1911 the Univ. of Hong Kong was incorporated by a local ordinance, embodying the principles of religious tolerance and racial neutrality. H. M. Govt. guaranteed funds for the foundation of 'King Edward VII' scholrs, awarded on entrance exam results. The univ. was opened in March 1922, in a bldg. donated by Sir Haimongre Mody, with facs of med and engin. A tat. of arts

was organized in the following yr., a fac. of sci. in 1939 and a fac. of archit. in 1951. The last was combined with the fac. of engin. in 1958.

A plan has been adopted for the univ.'s expansion which will result in the increase of undergrads to about 1800 by 1965. Degree courses in electr. and mech. engin. have been reinstated, and plans are in preparation for degree courses in dent.

**CONSTITUTION.** The supreme governing body of the univ. is the court, with the governor of Hong Kong as chancellor and chairman. The executive body is the council, composed of the vice-chancellor, the treasurer, the colonial sec., the deans of the facs, 4 members apptd. by the chancellor, 3 elected by the court and 1 elected by the senate. The senate, which deals with academic matters, is composed of the vice-chancellor, the dir. of educn., the profs. and the hds. of teaching depts. who are not profs.

**RECURRENT INCOME (1960-61).** (HK \$16=£1) Interest on investments, \$3,217,211, fees, \$2,241,062, govt. subventions, \$7,936,912; other sources, \$100,953, total, \$13,496,138.

**FACULTIES AND DEANS.** *Arts*, Prof. B. Harrison (hist.); *engin. & archit.*, Prof. S. Mackey (civ. engin.); *med.*, Prof. A. R. Hodgson (orthop. surg.); *sci.*, Dr. I. W. B. Thornton (cool).

**LIBRARIES.** Univ. libr. over 125,000 vols. in Engl. and other European langs., receives over 1300 journals; Fung Ping Shan Chinese section over 123,000 Chinese vols. (incl. 2300 Japanese vols.) and receives 105 current Chinese journals. Sp. collections incl. Hankow collection of invaluable source material on relations between China and the west during the Ch'ing dynasty; and Morrison collection of 2748 vols. incl. some of antiquarian value in the fields of oriental and biblical lit.

**TEACHING HOSPITALS.** Queen Mary H., Tsan Yuk H.

**INSTITUTE OF ORIENTAL STUDIES** (see p. 452). The Inst. of Oriental Studies provides facilities for study of the Mandarin and Cantonese langs. to colonial administration service officers and lang. officers of the army and air force, and for res. in various fields of Far Eastern study.

**ADMISSION.** Minimum qualifi., attainment of age 17; medical exam. of fitness; success in the Univ. of Hong Kong matric. exam. (passes in Engl., a second lang., a sci. or maths subj., 2 subs. at the advanced level and at least 3 subs. at one exam.). In addition there are various fac. requirements.

**EXTERNAL STUDENTS.** Applicants whose educn. standards in Engl. lang. and in the subjects of their choice are considered adequate by the h.d. of dept. concerned may be admitted as external students but may not take exams. of the univ. There are about 25 external students, mostly attending courses in the arts subjects, and 74 lang. sch. students.

**FIRST DEGREES.** 3 yrs.—BA (pass, hons.), BSc general (pass, hons.), BSc(Eng) (pass, hons.), 4

yrs.—BSc special (hons.), 5 yrs.—BArch (pass, hons.), 5 yrs.—MB BS (pass, hons.). The min. residence in the univ. for graduation is 3 yrs., except where individual exemption is given. Students reading for BA may select courses from one, two, or three of the following: Chinese, econ. & pol. sci., Engl., geog. & geol., hist., maths, mod. langs., philos. Courses for BA pass and hons. are identical (hons. awarded on result of final exam.).

Students reading for BSc (gen.) may select from following subs. (3 for 1st yr., 2 for 3rd yr.): bot., chem., maths., phys., zool. (hons. awarded on result of final exam.). Students in sci. courses are required to graduate with BSc (gen.) degree before being permitted to read during 1 further yr. for BSc special degree in chem., phys., bot., zool., pure maths., or appl. maths.

**HIGHER DEGREES.** MA, MSc, MSc(Eng)—conferred on grads. of the univ. or of approved univs. after advanced work extending over at least 2 yrs. MAEd—conferred on suitably experienced grads. of the univ. or of approved univs., holding DipEd of the univ. or other recog. qualif. after not less than 2 yrs.' full-time or 3 yrs.' pt.-time study. MD, MS—conferred on grads. of the univ. of 5 yrs.' standing, or in special cases of 3 yrs.' standing. MArch—conferred on hons. grads. of the univ. or of approved univs. after 1 or 2 yrs.' advanced work. DSc—conferred on grads. of the univ. of at least 6 yrs.' standing on evidence of publication of authoritative contributions to learning. PhD—conferred on grads. of the univ. or of approved univs. for original contribution to knowledge deserving of publicn., after 2 yrs.' full-time study.

**HONORARY DEGREES.** LL.D., DLitt., DSc.

**DIPLOMAS.** Educn.—1 yr.; soc. study—1 yr. (candidates must be grads. of the univ. or approved univs.); Chinese lang.—1 yr. (candidates must have cert. in Chinese lang. or equiv.).

**CERTIFICATES.** Soc. study—2 yrs.; candidates must be matriculated students of the univ. Educn.—1 yr. full-time, or 2 yrs. pt.-time; candidates must be grads. of approved univs., and must be grads. of at least 3 yrs.' standing for the pt.-time course. Chinese lang.—2 yrs.; candidates must be matriculated students of the univ. or equiv.

**STUDY LEAVE** may be granted where it can be arranged without serious inconvenience to the work of the univ.; terms of leave are at discretion of the council.

**FEES** (HK \$16=£1). Matric., min. entry fee: \$50; examn., \$100; composition (incl. registration, tuition, lab. or workshop, exam., and student health): BA (hons. or pass) (3 yrs.), \$1300, BSc general (3 yrs.), \$4500; BSc special (4 yrs.), \$6000; MB BS (5 yrs.), \$7500, BSc(Eng) (4 yrs.), \$6000, BArch (3 yrs.), \$7500, higher degree exams.: MA, MAEd, MSc, MSc(Eng), MArch, \$400, DSc, MD, MS, PhD, \$600. Graduation: BA, BSc, MB BS, BSc(Eng), BArch,

\$100, MA, MSc, MAEd, DSc, MD, MS, MSc(Eng), March, \$200

ACADEMIC YEAR Sept to June: 3 terms of 10, 9 and 9 wks 1962-63; Sept 1-Dec 21; Jan 1-March 17, March 24-June 30.

EXTRA-MURAL COURSES Courses in socy. and secretarial practice, lang. courses; various other occasl. and refresher courses

POSTGRADUATE AWARDS Two 2-yr scholaps awarded by H.K. govt each yr. for postgrad study or res open to applicants from other parts of the Commonwealth (Commonwealth Scholarship & Fellowship Plan, see p. 1617)

GRADUATES' ASSOCIATIONS Hong Kong Univ. alumni assoc. of Hong Kong, pan-Malayan Hong Kong Univ. alumni assoc. (branch assoc. of S. Malaya, Central Malaya, Penak and North Malaya); Hong Kong Univ. alumni assoc. in the U.K.

HALLS OF RESIDENCE For men: in univ. estate—May Hall (accoms. for 60), University Hall (61), Lugard Hall (73)—fees, \$240 p.m.; Morrison Hall, Hutton Rd (54), conducted by London Missionary Soc.—fees, \$225 p.m.; Rees Hall, Pokfulam Rd. (66), conducted by Jesuit Fathers—fees, \$240 p.m. For men and women: St. John's Coll., Pokfulam Rd. (116), Anglican

coll. of residence—fees, \$250 p.m. For women Lady Ho Tung Hall, Pokfulam Rd (100)—fees, \$215 p.m. (For waivemts, see 'Adm'n and Other Staff', above)

STAFF RESIDENCES The univ controls 64 houses and flats for teaching staff situated within the univ estate, and 34 outside it

STUDENT HEALTH SERVICE Provides for initial exam on admission, required vaccinations and inoculations, and professional services up to specialist level.

STUDENTS' UNION The union was establd in 1912. Membership is obligatory. It is controlled and directed by a council, the pres and hon sec of which, and also 4 indep. members, are elected by the undergrads. The union possesses a Jordan memorial library

STUDENT ATHLETICS Cricket, football, hockey, swimming, tennis, basket-ball, badminton, etc

PUBLICATIONS *Calendar*, *Handbook of the Matric Exam*; *Matric Exam Question Papers*; *Departmental Reports*; *Journal of Oriental Studies*; *Univ. Gazette*, *Contemporary China*; *Univ. Magazine* (students).

The UNIVERSITY PRESS is managed by a cttee. apptd by council. Publisher, H. Vetch

## THE YEAR 1961

UNIVERSITY GOLDEN JUBILEE YEAR 4 hon. degrees congregations (Jan, March, Sept and Nov.); A UBC evoc. council meeting (Jan), domestic celebration (March), gen. celebration and congress of learned symposia (Sept); visit of H.R.H. Princess Alexandra (Nov.) to receive hon. LLD and to open new students' union bldg

MAJOR BUILDING DEVELOPMENTS Bldgs completed: students' union and library.

NEW DEPARTMENT AND CHAIR Dept. and chair of orthop. surg.

RESIGNATIONS Mrs. Agnes H. L. Lowe (educn.); Canon A. P. Rose (philos.); Dr. C. D. Wier (mech. engin.); Prof. K. E. Praetley (educn.), apptd. principal, Borough Rd. Coll., Isleworth, Middx.

HONORARY DEGREES LLD—The Rt Hon the Lord Bridges, chairman, British Council, and chancellor, R. Uq.; Sir Douglas Logan, principal, Lond.; Sir Arocl L. Mudalur, vice-chancellor, Madr.; D. J. S. Cozner, former dir. of educn., Hong Kong; C. T. Yung, pres., Chung Chi Coll., Hong Kong; Sir Suk-Nin Chua, member, local excc. council; the Hon. Sir Tuen-Nan Chau, ex-member, local evoc. council; Dr. L. S. Fan, Dr. M. bin Osman, Dr. D. K. Sany, T. S. Kim, T. G. 'im, Dr. G. H. Thomas, Sir Christopher W. M. Cox, editorial adviser to sec. of state for colonies, L. D'Almeida Castro, QC; Sir Ivor Jennings, vice-chancellor, Camb.; L. Kadoorie *Dipl.*—Prof. H. Butterfield, master of Petshouse and prof. of mod. hist., Camb.; Prof.

C. T. Wu, DSc—Prof. H. Pao-chang, emer. prof. of pathol., H.K.; Sir Alexander Oppenheim, vice-chancellor, Malaya; Prof. R. A. Grant, Dr. R. K. S. Lam

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1068	87
Women	410	35
Total	1478	122

Distribution by Faculties, etc. Arts, 724; *agrs. & archit.*, 201; *Inst. of Oriental Studies*, 74; med., 351; sci., 230; *see studies*, 20. Total; 1600

Included in the figures above are:—

Postgraduate students, 180

New admissions, 624.

Students from other countries, 89. (Country from which largest number came: Fed. of Malaya, 62)

DEGREES AWARDED (1960-61) Arts, BA, 127; MA, 10; *Engls. & archit.*, BSc(Eng), 18; MSc(Eng), 1; BArch, 5; Med: MB BS, 39; *Sci.* BSc (gen.), 40, BSc (sp.), 11, MSc, 6

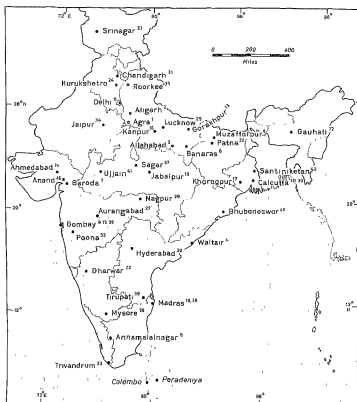
DIPLOMAS AWARDED (1960-61) DipEd, 66, DipSS, 4, DipChnLang, 7

CERTIFICATES AWARDED (1960-61) CertEd, 9; CertSS, 8, CertChnLang, 7



# INDIA

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| University of Allahabad (p. 492)                   | 23 University of Kerala (p. 604)                                     |
| Andhra University (p. 496)                         | 24 Kurukshetra University (p. 610)                                   |
| Annamalai University (p. 503)                      | 25 University of Lucknow (p. 612)                                    |
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| Maharaja Sayajirao University of Baroda (p. 513)   | 27 Marathwada University (p. 633)                                    |
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| Indian Institute of Technology, Madras (p. 584)    | 38 Shreemati Nathibai Damodar Thackersey Women's University (p. 705) |
| University of Jabalpur (p. 587)                    | 39 Sri Venkateswara University (p. 707)                              |
| Jadavpur University (p. 590)                       | 40 Utkal University (p. 712)   |
|  | 41 Vikram University (p. 717)  |
|  | 42 Visva-Bharati (p. 723)  |



*The places named in black type are the seats of the university institutions numbered overleaf*

## THE UNIVERSITIES OF INDIA

[Contributed by Mr. S. R. Dongikery, Vice-Chancellor of Marathwada University]

**HISTORY.** Modern university education in India dates from the foundation of the universities of Calcutta, Bombay and Madras in 1857. Educational institutions comparable to the universities of to-day did not exist in pre-Aryan India. Glorification of the idea of a university can be seen in the colleges and schools for advanced study attached to temples, where the Aryans provided education in religious and secular subjects for their youth. The *gurukula* where the guru or teacher imparted the knowledge of the Vedas to the *shishyas* or pupils entrusted to his care was more a residential college than a university, *masirichi* as, beyond providing intimate contacts between the teacher and his pupils, it did not afford opportunities for the association of teachers. Such opportunities were, however, provided by *parishads* or conferences of teachers and scholars organised from time to time. By granting recognition to scholars who exhibited their learning before them, these *parishads* performed one of the functions of a modern university.

Takshashila or Taxila, in Kandahar, the most important of the earliest known seats of learning in ancient India, became a university centre in the seventh century B.C. It flourished for nearly ten centuries as a university to which scholars and students were attracted from all parts of India. Similar university centres sprang up at Ujjain, Valabhi, Vikramshila, Benares and Kanchni (Kanchipuram). At one time, the University of Nalanda in the north (Bihar) and that of Kanchni in the south attained celebrity as centres of Indian culture and scholarship.

With the spread of Buddhism, the *sthanas*, or monasteries, developed into centres of learning which attracted lay students by the fame of their teachers. These *sthanas*, which, unlike the old *gurukulas*, had many teachers in residence, approximated to the modern idea of a university. About A.D. 425, Kumaragupta I, a devout Hindu, founded the *sangharanika* (college) of Nalanda as a residential university. Before him, the Emperor Asoka had built a temple and a *vihara* at the same place. Kumaragupta's successors built more *sangharanikas*. The University of Nalanda possessed eight *sangharanikas*, three extensive libraries and an observatory. It flourished till the thirteenth century A.D., when it was destroyed by invaders. Theology and philosophy were compulsory subjects of study at the university. Great importance was also attached to the teaching of the various systems of logic. The curricula included astronomy, grammar and medicine. The reputation of the great scholars who taught at Nalanda spread not only throughout the length and breadth of India, but even beyond its borders,

and attracted students from China, Tibet and Ceylon. Nalanda had, at one time, as many as ten thousand students and teachers. The method of instruction consisted of individual tuition and guidance rather than formal lectures. The students derived great benefit by listening to the discussions which took place among their teachers. Close personal contacts were established between the teachers and the taught.

Some of these ancient seats of learning continued to thrive even after the Muslim conquest of India, although the Muslim rulers encouraged the setting up of *madrasas*, or colleges, in different parts of India, e.g. at Lahore, Delhi, Rampur, Lucknow, Allahabad and Jaunpur. The subjects of study in the *madrasas* included theology, grammar, logic, rhetoric, law, geometry, astronomy and metaphysics. While Sanskrit was the medium of instruction in the Hindu centres of learning, Arabic was the chief medium in the *madrasas*.

When the East India Company came on the scene, it was in no hurry to change the indigenous systems of education. On the contrary, it established the Calcutta Madrasah and the Benares Sanskrit College on the traditional pattern, with the avowed purpose of preserving and cultivating the laws, literature and religion of the people and training young Indians for the administrative and judicial services. The renewed charter of the East India Company, in 1813, contained a clause stipulating that 'a sum of not less than one lakh of rupees in each year shall be set apart and applied to the revival and improvement of literature, and for the introduction and promotion of knowledge of the sciences among the inhabitants of the British territories in India'. Under the leadership of Raja Rammohan Roy, the Hindu College was founded in Calcutta, in 1817, to provide instruction in the European languages and science. In Bombay, Mountstuart Elphinstone advocated the establishment of schools for teaching English and the European sciences. 'The Elphinstone Institution was founded in Bombay' in 1824, to train persons for high employment in the civil administration. European missionaries, too, were active during this period, establishing schools in the presidency towns for imparting western education through the English language. A controversy arose between those who wanted to impart instruction through Sanskrit and Arabic and those who wanted to do so through English, which provided the occasion for Macaulay's famous minute. Endorsing this minute, the governor-general in council passed a resolution on March 7, 1835, declaring that the great object of the British government ought to be to promote



European literature and science among the Indian people and to employ all funds allocated to education on English education alone. The controversy, in Bombay, over the medium of instruction was settled in favour of English, in 1843. In 1845 the Bengal Council of Education proposed to the court of directors of the East India Company the establishment of a university at Calcutta, but the proposal was turned down as premature.

The next landmark is the dispatch of 1854 of Sir Charles Wood, sometimes called the 'Magna Carta of English education in India', but which may more accurately be described as the *forerunner* of the modern universities of India. This historic document impressed upon the government of India the duty of creating a properly articulated system of education from the primary school to the university, and recommended, *inter alia*, the institution of universities in the presidency towns of Calcutta, Bombay and Madras. It stated that the object of establishing universities was to encourage 'a regular and liberal course of education by conferring academical degrees as evidences of attainment in the different branches of arts and science'. It held out the University of London as a model which might be followed with advantage in India. The dispatch further advised the institution of professorships at the universities in various branches of learning. The educational policy outlined in it was implemented by the establishment of the universities of Calcutta, Bombay and Madras in 1857.

The jurisdiction of the University of Calcutta, extending from the Punjab in the west to Burma in the east, covered practically the whole of north India, while that of the other two universities was restricted to the respective presidencies. For twenty-five years these three universities catered for the educational needs of the whole country. The universities continued to be purely examining and affiliating bodies. To meet the increasing needs of the student population as well as to relieve Calcutta University of its heavy burden, two new universities were created—the University of the Punjab (now in Pakistan), in 1882, and the University of Allahabad, in 1887. Both these universities followed the example of the three earlier ones by confining their activities to examination and affiliation. No addition was made to these universities till 1916, although, meanwhile, higher education was rapidly expanding.

The next landmark in university education is the appointment, during Lord Curzon's viceroyalty, of the Universities Commission of 1902. The important recommendations of this commission were (i) that the senates of the universities should be limited in size, (ii) that teaching powers should be conferred on the universities, (iii) that they should be given greater control over the affiliated colleges and (iv) that they should undertake research. These reforms, incorporated in the Indian Universities Act of 1904, enabled the five existing universities to improve their efficiency by assuming teaching functions, exercising an

effective check over their affiliated colleges and encouraging research.

The next stage in the progress of university education is indicated by the government of India's resolution, published in 1913, which urged that the area of jurisdiction of the existing affiliating universities be reduced so as to provide a separate university for each of the leading provinces, and that simultaneously new local teaching and residential universities be created in each province in harmony with the best modern educational opinion. Government announced their intention to establish teaching and residential universities at Dacca, Aligarh and Banaras, and additional universities at Patna and Nagpur, and expressed their desire that the existing universities should provide and develop teaching facilities and encourage a corporate life which would advance higher study and create an atmosphere conducive to social and moral as well as intellectual progress.

Banaras Hindu University was founded in 1915. It was intended to be a live centre of Hindu culture and to promote the study of the applied sciences, and was the first denominational university to be established in India. Patna University was founded, in 1917, as an affiliating university to cater for the educational needs of the new province of Bihar and Orissa. Aligarh Muslim University, which developed from the Mahomedan Anglo-Oriental College, founded in 1875, was established in 1920 to serve the special cultural and educational needs of the Muslim community. In 1916, the University of Mysore, the first university in an Indian state, was created by the Mysore legislature.

In 1917 the government of India appointed the Calcutta University Commission under the chairmanship of Sir Michael Sadler, which was to have a profound influence on the subsequent progress of secondary and university education in India. The terms of reference of this commission included problems of secondary education as well as those covering all aspects of collegiate and university education. The recommendations of the commission have affected subsequent university legislation in different parts of India. One was the creation of intermediate colleges and boards of secondary and intermediate education. Another was the creation of teaching and residential universities. The universities of Aligarh, Lucknow, Dacca (now in Pakistan) and Delhi, established between 1920 and 1922, followed the model suggested by it. The commission recommended less government control, a greater participation by teachers in the government of the universities, a closer co-operation between the universities and the colleges and the appointment of full-time vice-chancellors. Most of these reforms have been adopted by the older universities and incorporated in the constitutions of the more recent ones. Osmania University was founded at Hyderabad (Deccan), in 1918, before the Calcutta University Commission's report was published. An outstanding feature of this university was the adoption of Urdu, the language

of the state, as the medium of instruction. Since the merger of the states in the Indian union, English has been adopted as the medium of instruction in the colleges of the university, while in a few of them parallel classes are conducted in Hindustani.

The decade following the publication of the Sadler Commission's report witnessed a spate of university activity throughout the country. Aligarh Muslim University (1920) and the universities of Lucknow (1921), Dacca (1921), Delhi (1922), Nagpur (1923), Andhra (1926), Agri (1927) and Annamalai (1929) followed one another in rapid succession. Many of these were unitary, teaching and residential universities. The years between 1929 and 1937 were lean years for university activity. The founding in 1937 of the University of Travancore (now the University of Kerala), the third in an Indian state, gave a signal for the revival of the university movement which, after a slight set-back during the second world war, gained renewed vigour, resulting in the establishment of Utkal University (1943), Saurashtra University (1946), Rajasthan University (1947). Since the attainment of independence by India, twenty-eight more universities have come into existence, namely, Punjab University (1947), Gauhati University (1948), the University of Poona (1948), Jammu and Kashmir (1948), Mahatma Sayajirao University of Baroda (1949), Roorkee University (1949), Gujarat University (1949), Karnataka University (1950), Shreepati Nathibai Damodar Thackersey Women's University (1951), Vija-Bharati (1951), Bihar University (1952), Sri Venkateswara University (1954), Jadavpur University (1955), Sairdar Vallabhbhai Vidyapeeth (1955), Gorakhpur University (1956), Indira Kala Sangraha Vishwavidyalaya, Kharagpur (1956), Vikram University (1957), Jabalpur University (1957), Kurukshetra University (1957), Mamthaada University (1958), Varanaseya Sanskrit Vishwavidyalaya, Varanasi Cantonment (1958), the University of Burdwan in West Bengal (1956), Bhagalpur University, Bhagalpur (Bihar) (1960), Ranchi University, Ranchi (1960), U.P. Agricultural University, Pant Nagar (Naini Tal District) (1960), Darbhanga University, Darbhanga (Bihar) (1960), Kalyani University (West Bengal) (1961), Magadh University, Gaya (1962).

The Shreepati Nathibai Damodar Thackersey Women's University and Vija-Bharati, though established by private agencies in 1916 and 1921 respectively, became statutory universities under acts passed in 1949 by the Bombay government and in 1951 the central government respectively. Sairdar Vallabhbhai Vidyapeeth, which was an offshoot of Gujarat University, was founded in 1935 and is a teaching and affiliating university.

In addition to the above-mentioned universities the Indian Institute of Science, Bangalore, the Indian School of International Studies, New Delhi; Jinnu Milla, Jinnu Nagar, New Delhi, and Gusevali Kungu, Saharapur (U.P.), are deemed to be universities under section 3 of the University Grants Commission Act (1956).

In seventeen universities (Andhra, Bombay, Calcutta, Delhi, Gauhati, Jadavpur, Jammu and Kashmir, Karnataka, Kerala, Madras, Marathwada, Orissa, Punjab, Rajasthan, Roorkee, Sri Venkateswara and Utkal) English is the sole medium of instruction. In the others it is English and Hindi or English and the mother-tongue, alternatively, except in the Shreepati Nathibai Damodar Thackersey Women's University where it is the student's mother-tongue, and the Sairdar Vallabhbhai Vidyapeeth where it is Hindi.

Four important reports dealing with university education were published after that of the Calcutta University Commission, viz. (1) the Hastig Committee's report (1929), (2) the report of the Punjab University Committee (1933), (3) the report of the Central Advisory Board of Education on post-war educational development in India (1944) (known as the Sargent report) and the report of the University Education Commission (1949), presided over by Dr. Radhakrishnan.

The Hastig report was in the nature of a review of the growth of education in British India. It contains some observations on the importance of a corporate life in universities. The authors also observe that the requirements of India cannot be met solely by unitary universities, and that the affiliating university is likely to remain for many years. The Punjab University Enquiry Committee's report did not produce any appreciable change in the constitution of that university on account of the unwillingness of the senate to implement its recommendations, valuable though they were. The Sargent report drew attention to crying defects in the Indian university system, such as the undue importance attached to examinations, the emphasis on book-learning as contrasted with original thinking, the lack of personal contacts between teachers and students, the dependence of universities on examination fees, the absence of schemes for assisting poor but able students and the need for additional universities. Among its important recommendations were the following: (1) that the duration of the degree course should be reduced from four to three years by adding one year of the intermediate course to the schools without lowering standards, (2) that one-third of the students at universities should receive assistance from government by way of scholarships and maintenance grants, and (3) that a University Grants Committee on the lines of the U.G.C. of Great Britain should be constituted.

The report of the University Education Commission (1949) is the most recent, authoritative and comprehensive document on the subject of university education in India. The second world war and the achievement of India's independence, accompanied by the partition of the country, hastened the need for a complete and comprehensive enquiry into all aspects of university education, as it was realised that the uncoordinated of the country's educational policy to meet the future requirements was one of the first essential

steps in her national progress. The report gives to the teacher the place which, though due, has been denied to him hitherto in the educational structure, a place above books and curricula, buildings and equipment, administration and the rest. It recommended suitable scales of salary for university teachers in keeping with their importance and status so that the best men and women would be attracted to the profession, the raising of the age of superannuation from 55 to 60, with extensions up to 64 in special cases, so that ripe scholarship and experience should not be lost to the country, and more congenial conditions of work. Deploying the colossal wastage resulting from the failure of students at university examinations, the commission recommended the raising of the level of education in secondary schools, the provision of occupational institutes to divert students, unfit for university education, to suitable vocations, the raising of the standard of admission to universities, the increase in the duration of pass and honours degree courses from two to three years, the raising of the percentage of marks prescribed for passing degree examinations, credit for class work throughout the degree course and other reforms in the examination system, restrictions on the admissions to colleges, compulsory tutorial classes for undergraduates and the introduction of courses in general education. One of the important chapters of the report is on the problem of the medium of instruction which is facing the Indian universities to-day. While recommending the compulsory study of English as a subject, the commission realized the inevitability of English giving place as the medium of instruction to an Indian language, sooner or later, and accordingly recommended that it be replaced by an Indian language other than Sanskrit, that Hindi be developed through the assimilation of words from different sources, including those forming the international technical and scientific terminology, and that universities should be free to use Hindi as the medium of instruction for some or all subjects as an alternative to the regional language. The commission pointed out that pupils at the higher secondary and university stages will need to learn at least three languages—the regional language, the federal language (Hindi) and English. The report recommended the inclusion of university education in the concurrent legislative list (the list of matters falling within the jurisdiction of the central as well as the state legislatures) and the contribution by the centre (to the extent of 50 per cent) to the cost of postgraduate and research work in the universities, in addition to capital grants for buildings and equipment and the setting up of a University Grants Commission.

Since the publication of the report of the University Education Commission in 1949, two important events have occurred in the educational history of India, which have had far-reaching consequences on university education in the country, namely, the publication of the report of the Secondary Education Commission in 1952-53

and the setting up of a University Grants Commission in 1956 by an act of the Indian parliament.

By its terms of reference the Secondary Education Commission was asked to report on the position of secondary education in India in all its aspects and to suggest measures for its reorganization and improvement. In making its recommendations, the commission, while expressing its anxiety not to encroach on the purview of the universities, nevertheless strongly advocated the advisability of abolishing the intermediate stage in the four-year degree course in arts and science, increasing the period of secondary education by one year, and planning a three-year degree course at the university stage. By a strange irony, the universities, with one solitary exception (Bombay), agreed in principle to accept the pattern of the three-year degree course recommended by the commission, and many of them have implemented this course long before the introduction of the reform of the addition of one year at the secondary stage on a wide scale. The result has been that the affiliated colleges have undertaken the responsibility of conducting the pre-university course, and may be obliged to continue to do so for a long time.

By virtue of the enlarged powers given to it by statute, the University Grants Commission is able effectively to promote and co-ordinate university education, maintain standards and assist universities with funds to expand their activities. Realizing the importance of raising standards of university education, the commission has given top priority to the improvement of libraries and laboratories, by making grants to universities and to affiliated colleges, and of the quality of teaching by subsidizing the increased scales of salaries of university and college teachers. It has also made grants to affiliated colleges to meet the additional expenditure incurred by them in introducing the integrated three-year degree course. It also makes grants to universities for postgraduate work and research. The universities find it much easier to get financial assistance from the commission than from the government direct, on account of the less formal relations and better understanding existing between them and the commission, with which they are in close and constant touch (see also pp. 464-465).

**CONSTITUTION** (a) *Structure of universities.* Indian universities are of four main types, viz. (i) unitary teaching, (ii) federal teaching, (iii) teaching and affiliating and (iv) purely affiliating. The majority of them are teaching and affiliating, that is, they carry on teaching activities in their own departments and/or through constituent colleges, the instruction being given either by their own teachers or by teachers of constituent colleges recognised by them. They also affiliate colleges within their jurisdiction which teach under university supervision. The colleges have to abide by their conditions of affiliation with regard to finance, adequacy of staff, equipment, libraries, laboratories, buildings and hostels. In

some universities falling in this category the central co-ordination predominates, as in Andhra University or in Poona University in the Poona area; in others, the affiliated colleges do most of the teaching, the university's teaching being restricted to a few departments. There are eleven unitary teaching universities in India. A unitary university has been defined as 'one, usually localized in a single centre, in which the whole of the teaching is conducted by teachers appointed by or under the control of the university'. The control of the teachers, the teaching, the courses of study and the administration are centralized in the university. A unitary teaching university is usually residential, and vice versa. Aligarh, Allahabad, Annamalai, Banaras, Baroda, Jadavpur, Kurukshetra, Lucknow, Patna, Roorkee and Visva-Bharati conform to this type. Most of the Indian universities began as affiliating universities, being mainly concerned with laying down courses of study and examining students sent up by their affiliated colleges. They had no control over the teaching imparted in the affiliated colleges and were, for all practical purposes, no more than external, governing bodies. Gradually these universities began to assume teaching functions, and associated the teachers in the affiliated colleges with the framing of their courses and their general administration, until to-day there are only two purely affiliating universities (Agra and Vikram) in the country. The University of Bombay, as reconstituted in 1953, is a federal, teaching university as is the newly constituted University of Kerala (formerly the University of Travancore). Its colleges, in which all the undergraduate teaching is carried on, are constituent colleges, enjoying a great measure of autonomy in their internal administration, but they can be required to pool their resources for both post-graduate and post-intermediate teaching. Their principals are ex-officio members of the senate, the academic council and boards of university teaching and the heads of their departments are ex-officio members of the university's boards of studies. There is thus a close link between the university and its colleges. Poona University, too, so far as the Poona area is concerned, is a federal, teaching university, though it is an affiliating university in relation to the colleges situated outside Poona.

(b) *Internal government.* The main authorities of the universities and their relation to one another follow more or less the same pattern with minor variations. With a few exceptions, the governor of the state is the ex-officio chancellor or nominal head of the university. The chief academic and executive officers of the university is the vice-chancellor, who in most universities to-day is a full-time, paid officer, appointed for a fixed term. His appointment is made by the chancellor from a panel of names submitted by the supreme governing body. In a few universities (Bombay, Nagpur, Poona, Gujarat, Baroda and Shriemati Nathibai Damodar Thackersey Women's Universities and Sardar Vallabhbhai Vidyapeeth) the appointment is still an honorary one. Each univer-

sity has at least three authorities, viz. the senate or court, the syndicate or executive council, and the faculties. In some there is also an academic council. The senate or court is the supreme governing body, which holds the purse-strings and decides broad questions of policy. Its membership is large, represents a variety of interests and includes ex-officio, nominated and elected members. Heads of government departments, university professors and principals of colleges are included among the ex-officio members. A certain number are nominated by the chancellor and the rest are elected by university and college teachers, headmasters, registered graduates, local bodies, associations, the state legislature and donors of large amounts. The syndicate or executive council, which runs the day-to-day administration and handles its finances, is perhaps the most effective body in a university. It consists of the vice-chancellor, the director of public instruction, elected representatives of the supreme governing body, the faculties and principals. The academic and the lay element in it are usually evenly balanced. The faculties usually function through boards of studies in the several subjects included in them. They and the academic council, which consists mainly of teachers and heads of affiliated institutions, deal with purely academic questions, such as the framing of courses, the organization of teaching and regulation of examinations. In a few universities there are special boards of university teaching. Except in Roorkee University and the Shriemati Nathibai Damodar Thackersey Women's University, which have each one faculty only, namely engineering and arts respectively, the number of faculties varies from four to twelve.

*Relationship to Government.* Only four Indian universities, viz. Aligarh, Banaras, Delhi and Visva-Bharati, were established by acts of the central government. All the other universities have been created by state legislatures. In the sense that they are dependent on the central or the state government, as the case may be, for their constitution and powers, they may be said to be under government control, but they enjoy the greatest measure of autonomy in their internal administration. They stand midway between the British and the continental universities. While government control over them is nothing like the all-pervading control of the state over the universities of France or Italy, they do not enjoy the full freedom of the British universities. The control of government is more indirect than direct. Thus the governor of the state is, as a rule, the chancellor and he appoints the vice-chancellor. When the vice-chancellor is nominated from a panel, the final power of approval or veto rests with the chancellor. The chancellor's approval is necessary in some universities before a statute or regulation passed by their supreme governing bodies can become effective. In many universities the final power with regard to the affiliation and disaffiliation of colleges is in the hands of the government. Heads of certain

government departments are *ex-officio* members of the supreme governing bodies, and the chancellor has the right to nominate a number of their members. The president and the governors of states are usually invested with visitatorial powers or powers of enquiry and inspection, though these are rarely exercised. The accounts of the universities are subject to government audit.

**Government Grants and the University Grants Commission.** Under the Indian constitution, university education, excluding the four central universities, is a state subject. The universities have to look to their state governments for financial assistance. They also receive special grants, mainly for postgraduate and research work, from the funds placed at the disposal of the University Grants Commission by the government of India.

A University Grants Committee, consisting of four members, was formed in 1945 to advise the central government on the grants to be made to central universities. In 1946, and again in 1947, its membership was increased and it was empowered to deal with the other universities also. Its chairman was not a full-time officer. The Radhakrishnan commission recommended drastic changes in the constitution and powers of this committee, the most important of which was that it should be an expert body with power to allocate grants, within the total limits set by the government, instead of merely recommending their allocation to the finance ministry. In November 1953 the University Grants Commission, consisting of a full-time chairman and secretary and eight members, was set up by a resolution of the government of India to act as an expert body of advisers to the central government on the allocation of funds for grants-in-aid to the universities, and the disbursements of grants out of the funds placed at its disposal. By act of parliament (no. 3 of 1956) the commission was made a statutory body, consisting of nine members, including the chairman, whose office is a whole-time, salaried one. All the members, including the chairman, are appointed by the central government. Not more than three of them must be chosen from among the vice-chancellors of universities, two must be officers of the central government. The remaining members must be educationists or persons who have obtained high academic distinction. The commission is assisted in its work by a full-time paid secretary and staff. It is empowered to associate with itself persons whose assistance or advice it may need. Its duties and functions are to enquire into the financial needs of universities, allocate and disburse out of its fund grants to the central universities for their maintenance and development and to other universities for their development, advise the central and state governments on the allocation of grants, establishment of new universities, or proposals for expanding the activities of existing universities, collect information from and on behalf of universities and generally to take steps for the promotion and co-ordination of university education and maintenance of university standards. The Uni-

versity Grants Commission is under a statutory obligation to present annual reports of its activities to the central government. These reports are laid before both houses of parliament. Three such reports have so far been published. Mr. D. S. Kothari is the chairman of the commission and Mr. S. Mathur is its secretary. The address of the commission is Old Mill Road, New Delhi, 2.

Realising the importance of raising the standards of education in the universities, the University Grants Commission decided to give top priority to the improvement of libraries and laboratories and of the quality of teaching in the universities in its programme under the second five-year plan (1956-61). It accordingly made grants for the strengthening of their libraries and laboratories and for raising the salaries of their teachers.

**Grants to universities and colleges.** The University Grants Commission has continued the development programme which it had undertaken at the beginning of the second plan period and made grants for the building of libraries, laboratories, hostels, etc., and also to enable the universities and colleges to carry out a large number of minor projects. The total grants paid to the universities for development schemes in the humanities, science and technology during 1960-1961 were

	Rs
Humanities	22,702,530
Science	9,251,769
Technology	6,797,438
Central universities	29,049,815
Centenary grants to Bombay, Calcutta and Madras universities	1,000,000
	68,801,552

In accordance with the recommendations of the expert and visiting committees appointed by the University Grants Commission, universities were helped to strengthen existing facilities for training and research in basic science subjects and to establish new postgraduate departments. Assistance was also given for the introduction of courses in newer branches of study and to some extent also for the improvement of scientific education at the undergraduate level. With the increase in the number of universities from 31 to 44 during the second plan period, there has been a corresponding rise in the number of scientific as well as arts departments at the postgraduate level. In particular on the science side, the number of postgraduate departments increased from 363 to 466.

Of the 103 new postgraduate departments in science established during the second plan period, 64 were opened in the universities and the remainder in the affiliated colleges. The University Grants Commission gave assistance towards the establishment of all the new departments. Of the 642 additional posts that were created during the second plan, 96 were professorships, 102 research

posts, 226 lectureships and the remaining 128 were teaching staff.

Assistance was also given,

- (a) to the introduction of the five-year integrated course in engineering,
- (b) for special research schemes in certain fields of engineering & technology;
- (c) for postgraduate scholarships and fellowships in engineering subjects.

The new engineering courses that were developed with the help of the commissions include:

- (1) Mining engineering (Osmania University),
- (2) Chemical engineering & technology (Anna-malai, Osmania and Punjab universities),
- (3) Telecommunication engineering (Jadavpur, Osmania and Roorkee universities),
- (4) Architecture (Roorkee University).

The question of establishing units for postgraduate studies in basic medical sciences in the universities was also considered by the University Grants Commission and the possibility of training non-medical men also in basic medical sciences so as to fit into the schemes of medical education and research in the country has been studied now. Sanction was accorded for the establishment of one such postgraduate unit at Calcutta University at a total cost of Rs. 25.7 lakhs, of which the commission's share was Rs. 17.13 lakhs. More units may be established in selected centres during the third plan.

On the humanities side, assistance was given as usual for establishment and development of courses in a wide variety of subjects, including (a) archaeology; (b) museology; (c) languages, and (d) Buddhist studies.

The University Grants Commission continued its assistance to colleges for various specific purposes such as construction of hostels, non-resident student centres, and purchase of library books.

**Other grants.** The University Grants Commission also makes grants for the holding of periodic conferences and seminars on various subjects for the benefit of university and college teachers and makes grants to individual teachers to enable them to visit centres of research in particular subjects for short periods.

**FINANCE.** In 1958-59\* the total income of universities and colleges was Rs. 57.90 crores. Of this amount, Rs. 22.75 crores represented the income of universities and the constituent colleges maintained by them. The balance of Rs. 35.15 crores was received by the affiliated colleges and such constituent colleges as were not maintained by the universities. Of the total income, Rs. 44.06 crores was recurring, and Rs. 13.84 crores non-recurring. The total contribution towards the income of the universities and their colleges from government and local boards funds was to the extent of Rs. 31.85 crores, while fees, endowments and other sources contributed Rs. 18.27 crores, Rs. 1.40 crores and Rs. 6.34 crores respectively.

**PRE-UNIVERSITY EDUCATION.** The examination which a student has to pass before he can enter upon a course of university study is the secondary school (leaving) certificate examination held by the board of secondary education set up for the area in which the university is situated, or the matriculation or entrance examination held by the university itself. Very few universities in India to-day (e.g. Nagpur and Punjab) hold their own matriculation or entrance examinations.

The majority of pupils completing their high-school course take one of the school certificate examinations. The duration of the high-school course is ten years in most of the states and eleven years in Bombay. This period includes the time spent in the four primary standards and the three standards of the middle school. Instruction in the secondary schools, except in a few English teaching schools, is given through the pupil's mother-tongue or the regional language of the area. Not every holder of a secondary school certificate is eligible for admission to a university. The universities prescribe the subjects and minimum percentage of marks necessary for the purpose. In addition to the secondary schools, which provide education only in literary subjects, there are technical, agricultural and commercial high schools from which pupils can take the school certificate. Subject to certain restrictions, certificate holders from such vocational schools are also eligible to join a university. Pupils who join schools which prepare them for the Cambridge school certificate or higher school certificate examination are also admitted to the arts or science courses, provided that they pass in certain subjects or obtain a certain number of credits. In many universities, especially in north India, a Cambridge school certificate holder is admitted straight to the second year of the four-year arts or science degree course. For admission to Delhi University, which has a three-year degree course, a candidate has to complete the course for the higher secondary examination and pass it. The entrance qualification for the Aligarh, Agra and Lucknow universities is the passing of the intermediate examination of an Indian university, of the board of high school and intermediate examination (Uttar Pradesh), or an equivalent examination. When the three-year degree course is introduced in the universities, pupils who have completed the school-leaving certificate course will have to spend one more year in a pre-university course of study, either in a higher secondary school or in a college, before they are permitted to enter upon the degree course.

**ADMISSION.** In theory, all qualified applicants have the right of admission to university courses of study, but, in practice, owing to the limited number of places, it often becomes necessary for the authorities of the institutions to make a selection from among the applicants. This happens especially in the medical, engineering, commerce and teachers' training colleges. The

\* Figures supplied in 1962 by Ministry of Education, Government of India.

relevant authority lays down its own criteria for making the selection. Performance at the qualifying examination, distinction in sports and extra-curricular activities and membership of the national cadet corps are the chief determining factors.

Mention has been made above of the requirements for admission to the first-degree courses in arts and science. As regards professional courses leading to the first degree, the minimum requirements vary to some extent from university to university, except for the medical and engineering courses, where there is a greater degree of uniformity. Thus, the universities with four-year degree courses insist on the passing of the intermediate science examination with physics, chemistry and biology for admission to the MB BS course and the intermediate science examination with mathematics for admission to the BE or BSc(Eng) course. Those universities which have a three-year degree course require the passing of the pre-professional examination with biology and mathematics respectively. Owing to the comparatively small number of places available and the large number of applicants, candidates who have not obtained good marks at the qualifying examinations have little or no chance of securing admission to these courses. Some universities have laid down further conditions, such as the securing of 45 or 50 per cent. of the marks, or passing in the first division, as the minimum requirements for admission to the medical or the engineering course. Except in Bombay and Karnataka universities, only graduates are admitted to the LLB or BL degree course. In the two above-mentioned universities, a student passing the intermediate examination in arts, science or commerce, or part I of the BA examination, is admitted to the law course, though he has to study for three years, whereas for graduates the course is one of two years. The qualification for admission to the degree course in commerce is the intermediate arts, science or commerce, or the pre-university examination, except in some universities where admission to the course, which is one of four years, is made after the secondary school certificate examination, e.g. in Benares, Bombay, Gujarat, Karnataka and Poona universities, and in Delhi, where the minimum requirement is the passing of the higher secondary examination and the course is one of three years. The minimum qualification for admission to the BSc Agriculture course is intermediate science, pre-professional, or intermediate science (agriculture), except in the Gujarat, Karnataka, Marathwada and Poona universities, where the course is one of four years after the secondary school certificate examination.

The requirement for admission to postgraduate study and research is the possession of a first degree in the same faculty. The higher degrees are, as a rule, open to graduates of other universities on a reciprocal basis. The master's degree by papers can be taken after two years of study. In Annamalai, Andhra and Madras universities,

a candidate who had passed the BA (hons.) or BSc (hons.) examination was until recently entitled to take the master's degree by mere efflux of time. In some universities the master's degree can also be taken by research. The PhD degree can be taken only by research, not less than two years after the master's, or three years after the bachelor's, degree. For research degrees the candidate has to work under the guidance of a recognized university teacher. He has also to submit a thesis and undergo a viva voce test, unless he is exempted therefrom on the recommendation of his referees. In certain universities only students who have done well in the first degree examination are permitted to undertake post-graduate study or research.

#### STRUCTURE OF DEGREE AND DIPLOMA COURSES

Most of the universities have decided to adopt the integrated three-year course for the BA and BSc degrees, involving the abolition of the intermediate examination, as recommended by the Secondary Education Commission (1952-53). The details of the course have yet to be settled by the universities, and there are bound to be certain variations in them. The main idea underlying this course is to alter the former pattern of university education by transferring one year of the old four-year degree course to higher secondary schools, making it a pre-university course. Until the secondary high schools are upgraded into higher secondary schools, this pre-university course will be taught in the affiliated colleges. Simultaneously with the introduction of the new three-year courses, 'integrated' courses in general education, on the lines recommended by the Radhakrishnan commission in chapter V of their report, are likely to be adopted by most universities. By 'integrated' courses in general education is meant courses that not only lead to an understanding of the major fields of knowledge in the humanities, the natural sciences and the social sciences, but also of the inter-relationships between these fields. The University Grants Commission is giving financial aid to the universities to implement their schemes in this regard.

All the teaching and affiliating universities in India, except Bombay, have agreed in principle to accept the scheme of the three-year degree course. The universities of Uttar Pradesh propose to have a three-year degree course after a twelve-year school-cum-intermediate course and the University Grants Commission has agreed to assist these universities on a 100 per cent. basis towards their capital projects (excluding hostels). The implementation of the scheme in the state universities was financed until recently on an equal sharing basis between the state governments and the universities and managements of colleges on the one hand, and the government of India and the University Grants Commission on the other. On the recommendation of the planning commission, and with the concurrence of the ministry of education, the University Grants Commission has agreed to take over the entire responsibility for the implementa-

tion of the three-year degree course scheme in all Indian universities from the financial year 1960-61. The three-year degree course has already been introduced in the following twenty-six universities: Aligarh, Andhra, Annamalai, Banarus, Baroda, Calcutta, Delhi, Jabalpur, Jadavpur, Kanarak, Kerala, Madras, Marathwada, Mysore, Nagpur, Osmania, Patna, Poona, Rajasthan, Sardar Vallabhbhai Vidyapeeth, Saugor, S.N.D.T. Women's, Sri Venkateswara, Utkal, Vikram and Vivek-Bharati.

The three-year degree course is preceded by the pre-university course examination which is at present being conducted by the universities. The course includes compulsory and optional subjects. The universities hold an examination at the end of the second year in the compulsory subjects and in some papers of the optional subjects. In some universities there is an examination at the end of the first year also. Failure in these examinations does not prevent a student from proceeding to the final or third year of the degree course in which he is examined in the optional subjects only.

Students wishing to join a professional course in medicine or engineering are required to undergo what is called a pre-professional course in science subjects, with a professional bias, which as at present being taught in the degree colleges in arts and science, although it is the intention that these courses should eventually be catered for by the professional colleges themselves. The pre-professional examinations correspond to the old intermediate science examinations.

Under the pattern of the old four-year degree course some universities had a special honours examination with advanced courses of the duration of two or three years after the intermediate examination. Andhra, Annamalai and Madras had a three-years' honours course, and conferred the MA degree, without further examination, on candidates taking the honours degree, after the lapse of a certain period. They have discontinued these courses since the introduction of the three-year degree course. Among the universities which have already switched over to the three-year degree courses only one (Poona) has an honours course of the same duration as the pass or general course, but with a larger number of papers and with specialization, on the lines of the honours courses of Delhi University. The other universities have not instituted honours courses so far. Bombay University, which still follows the old pattern of the four-year degree course, has two types of courses, known as 'general' and 'special', each of two years' duration, the difference depending upon the groups and selection of subjects. A candidate can secure honours in either course, depending upon the level of his performance at the examination. In practice, however, a very small number of candidates select the 'general' course.

The duration of courses leading to the BSc(Eng) or BE (civil, electrical and mechanical) degrees varies from three to five years after the intermediate science, or pre-professional, ex-

amination. In some universities the course includes practical training, varying from six months to a year; in others, there is no provision for practical training. The course for the MB BS degree varies from five to six years after the intermediate science, or pre-professional, examination. It includes internship from six months to a year in all universities except Andhra and Mysore. The course for the LLB or BL degree varies from two to three years. The course for the bachelor's degree in commerce varies from one year after the pre-university examination, or two years after the intermediate arts, science or commerce examination, to four years after matriculation. Two universities (Andhra and Madras) have honours courses, and in one university (Bombay) candidates passing in the second class are deemed to have passed with honours. The BSc(Agr) course varies from three years after the intermediate science or the higher secondary examination to five years after matriculation. The degree courses in dentistry and veterinary sciences are each of four years' duration after the intermediate science examination, and the BEd or BT course covers one year after graduation in all universities. The courses in technological subjects (other than engineering) are usually of four years' duration after the intermediate science examination or two or three years after the BSc degree. It may be broadly stated that those universities which have adopted three-year degree courses in arts and science have substituted the pre-professional or some other examination corresponding to the intermediate as the springboard for admission to the professional course.

Study for a postgraduate qualification normally involves attendance at advanced courses of lectures, clinics or practicals, as the case may be. Where the degree is by research, the candidate has to work under the supervision of a recognized teacher except for the DLit and DSc degrees, which are awarded on the basis of independent research.

Most universities conduct diploma courses in a variety of subjects, cultural, technical and professional, such as foreign languages, journalism, public administration, foreign affairs, music, soap-making, pottery, teaching, librarianship and medical subjects. Some are postgraduate diplomas, others undergraduate. The duration of the courses varies from one to three years.

Some universities confer 'oriental titles' (corresponding to degrees or diplomas) on candidates who pass their examinations in courses in languages such as Sanskrit, Arabic or Urdu, or in Ayurveda or Unani (indigenous systems of medicine), or in theology or music. These courses are taught at the university level, and must not be confused with courses provided by institutions other than universities which confer their own titles on those who pass their examinations. These institutions are colleges maintained or sponsored by state governments or by learned bodies with a view to encouraging traditional courses and methods of instruction in Sanskrit or other



oriental languages. For a list of oriental titles conferred by universities, see p. 473.

**STAFF.** The teaching staff in university departments

consists of professors, readers, lecturers and demonstrators. The affiliated colleges have professors, assistant professors, lecturers and demonstrators, but no readers.

NUMBER OF TEACHERS BY DESIGNATION, 1959-60 \*

	Principal/ Vice-Principal/ Directors	Professors/ Assistant Professors	Readers	Lecturers	Others	Total
University Teaching Departments	—	1150	456	1,827	397	3,830
University/Constituent Colleges	216	1912	580	6,211	2996	11,915
Affiliated/Associated Colleges	1130	5448	287	21,040	5966	33,871
Total	1346	8510	1323	29,078	9359	49,616

\* Figures are provisional

The scales of pay in the universities are more or less uniform, whereas in the colleges they vary considerably. Some universities have prescribed minimum scales of pay for their college teachers. As a result of the subsidies given by the University Grants Commission, the revised scales of salaries of universities which receive such subsidies are uniform. The professors are paid Rs. 800-50-1250 per month, the readers Rs. 500-25-800 and the lecturers Rs. 250-500, with annual increments of not less than Rs. 20. The commission pays to the universities 80 per cent. of the increased expenditure due to revision, while the remaining 20 per cent. is borne by the state government or the university concerned. The four central universities pay according to the same scales as those mentioned above, with slight variations in the lecturers' scales to meet local requirements. Bombay University pays its lecturers Rs. 300-25-600. Panjab University also has slightly higher scales for its teachers. Many of the affiliated colleges have recently upgraded the salaries of their teachers on a sharing basis, the commission subsidizing the increased expenditure to the extent of 50 per cent. and the state government or the college contributing the balance.

The usual method of instruction consists of the lecture, the tutorial and the seminar. Lectures predominate. Tutorials and seminars are held, once a week or fortnight, in different subjects. A college teacher is usually not burdened with more than fifteen lectures in a week, if he does not take postgraduate classes. Teachers of undergraduate classes generally get very little time to do their own research.

The practice of sabbatical leave as such is non-existent in the colleges. Teachers in the university departments are permitted to go on study leave up to a maximum of three or four years during the entire length of their service. The age of superannuation in most universities is sixty years, which may be extended by two to five years in special cases. In a very few universities it is fifty-five. No distinction is made in the case of those coming from abroad, unless the appoint-

ment is on contract for a fixed period.

The usual method of filling vacant teaching posts is by advertisement in the Indian newspapers, and sometimes also in foreign newspapers. Appointments are ordinarily made by the executive council on the recommendation of statutory selection committees, which include experts unconnected with the university.

There is no statutory bar to the appointment of nationals of other countries to university or college teaching posts, although the number of such persons is rapidly decreasing on account of the availability of Indians with high academic qualifications obtained in foreign universities. The majority of teachers are persons who have taken their first degrees in India. Only a small minority have received their first degree training abroad. The older universities have on their staffs a fair proportion of teachers who have graduated from other universities, although the majority are from the home university.

**STUDENTS.** Most universities enrol only full-time students but some have students taking diploma or evening courses. In Agra University about 25 per cent. of the students are part-time, in Gauhati about 17 per cent. and in Baroda about 12 per cent. About 13 per cent. of the students in Poona University are external students, i.e. persons gainfully employed in the university area, who are allowed to appear for its examinations without keeping terms, after registering their names in the university office. Calcutta, Delhi, Madras and Utkal universities have small numbers of part-time students. Some of the universities, e.g. Agra, Nagpur, Osmania, Rajawade and Utkal, permit certain categories of persons, such as school teachers, educational inspectors, women, librarians, library clerks and laboratory assistants, to appear as private candidates at their examinations. Very few universities conduct vacation courses or summer schools. Poona University, for example, conducts such a course for the MEd examination for secondary school teachers. The majority of students live in their own homes. About 10 to 20 per cent. live in halls of residence or hostels maintained by the universities or

affiliated colleges. It is usual for a university, when affiliating a college, to lay down a condition that it shall make provision for the accommodation of a certain proportion of its students in its own hostel.

Most universities and colleges have their own students' unions or representative councils. Every college has its own athletic club and a number of societies conducting cultural activities such as literary, dramatic, debating, historical and philosophical societies or clubs.

Almost every university has its contingent of the national cadet corps. Girls' divisions have recently been started in many universities. Student welfare activities are on the increase. The government of India organises an annual inter-university youth festival. Students take part in training camps, village apprenticeship and development schemes, and labour corps, for which the universities receive financial assistance from government. Universities and colleges have their own medical officers to look after the health of their resident students. In some universities there are arrangements for the medical examination of entrants. Some universities have made physical training compulsory in the first two years of the degree course. A few universities have foreign universities' information bureaux, and Calcutta University has also an appointments board. As the number of students from overseas is increasing, the universities are considering a proposal to appoint advisers for them. A few universities have student counsellors.

The tuition fee varies from Rs. 120 to Rs. 250 per annum for arts and science courses, and from Rs. 250 to Rs. 400 for professional and technological courses. The cost of residence in hostels, including boarding, varies from Rs. 80 to Rs. 100 per month. For overseas students, it may go up to Rs. 150 per month, but much depends on whether the university is situated in a small town or a large city.

The major sources of financial assistance by way of research studentships, fellowships and scholarships are (a) the government of India and/or the state government, (b) university or college funds and (c) endowments. The government of India awards a certain number of scholarships to students coming from abroad. They also award scholarships to backward class students. The universities and colleges, too, award free studentships to deserving but poor students. As a rule, however, scholarships and other financial awards are made on the basis of merit. Figures are not available to show to what extent students receive financial assistance, though, on a rough estimate, it may be said that about 10 per cent. receive financial aid. Vacation employment of students is practically unknown.

The University Grants Commission gives grants to students' aid funds established in the universities and colleges for rendering financial assistance to poor students to meet their tuition or examination fees or to purchase books or meet similar

other expenses in connexion with their studies. Such grants are made on a fifty-fifty basis, subject to a maximum amount of Rs. 10,000 for a university and Rs. 2000 for a college.

The average age of Indian students joining universities is 17 plus. Foreign students (for statistics, see pp. 473-474) are usually much older, i.e. between 18 and 24, as many of them come only for professional or postgraduate studies.

The total number of students has been increasing from year to year. It increased from 420,000 in 1951 to 980,380 in 1961-62. Of the 980,380, 569,627 were women. See also 'Statistics', p. 473.

**ACADEMIC YEAR.** The academic year is divided into three terms in most universities. Some have only two terms. The academic year usually begins in June or July and ends in March or April. In the Jammu branch of the Jammu and Kashmir University and in Roorkhee University it begins in September, and in the Punjab University in October. The long (summer) vacation, except in these three universities, falls between March and July. The difference in the terms and vacations is mainly due to climatic conditions. Most universities have a short break of a fortnight to a month in October, and another short break of ten days to a fortnight in December. No vacation courses are held in summer to enable students to earn credit for attendance.

**ADULT EDUCATION.** The idea of extra-mural classes and university extension is comparatively new. Some universities have, however, recently been moving in that direction, for example, Poona University has established a board of extra-mural studies which is responsible for adult education in the university area. It had 84 extra-mural centres where 600 lectures were delivered in 1961-62. It also conducts summer and autumn schools, mainly for school teachers, at a few extra-mural centres. Marathiwada University has a statutory board of extra-mural studies. It has 17 centres where 193 lectures were delivered in 1961-62. Bornhay University has recently started adult education classes in Hindi and Marathi in labour areas for labourers in mills and factories and in English for office employees desirous of acquiring a knowledge of cultural subjects. Some other universities also conduct adult education classes through their own lecturers and college teachers. The University Grants Commission gives financial assistance for university extension courses to universities undertaking them.

**INTER-UNIVERSITY ORGANISATIONS.** In pursuance of a resolution passed by the first conference of Indian universities held at Simla in 1924, the Inter-University Board of India was established in 1925 to co-ordinate the work of the Indian universities, by providing for the discussion of common university problems, acting as a bureau of information, facilitating the exchange of professors, assisting the universities in obtaining recognition for their degrees by other

universities, and in other ways. Member universities are represented on the board by their vice-chancellors and, in their absence, by members of the syndicate or executive council. The universities of Rangoon and Ceylon are also members of the board. The board meets annually to consider proposals from individual universities and the government of India, and also convenes quinquennial conferences to discuss important university problems. Through a subsidiary sports board it conducts inter-university tournaments in the major games and in athletics. In addition to the proceedings of its annual meetings and conferences, its *Bulletin*, *Lists of subjects in which research is in progress in the universities and research institutes* and the *Bibliography of Doctorate Theses* accepted by the universities, it publishes a *Handbook* giving detailed information about the Indian universities and research institutes. It is in relationship with the Association of Universities of the British Commonwealth. The board has a standing committee, elected biennially, which acts as its executive body. The presidency rotates annually among the vice-chancellors. The office of the board is located at Rouse Avenue, New Delhi, 1, India. The chairman of the standing committee of the board is P. P. Parry, OBE, MA Camb, DSc Paris & Urol, FNT, Vice-Chancellor of Utkal University. The secretary of the board is B. D. Laxma, DIC, PhD Lond, BA Oxon.

There is no national association of university teachers in India, although there are local associations in some universities, e.g. Bombay and Poona, whose activities are mainly social.

There is a body called the National Union of Students, to which a few students' unions are affiliated, but it cannot be said to be a very representative body.

**THE UNIVERSITIES TO-DAY.** The universities are faced to-day by a number of problems, largely the result of the situation in which India finds herself since independence, and the rethinking which has become necessary for them to fulfil the requirements of the country in which they must play their rôle as integral parts of her national life. The main problems are inadequacy of staff and equipment, the pressure of an ever-increasing number of students and the replacement of English by a suitable Indian language as the medium of instruction. In a way, the universities are in a better position now than they ever were before, inasmuch as the University Grants Commission is always willing to help them. With its assistance they have been able to improve the pay scales of their teachers, build or extend their scientific and technological laboratories, strengthen their libraries and provide more accommodation for their students and staff, and, in particular, to extend their research facilities. They are anxious to bring about closer contacts between teacher and student by laying greater emphasis on tutorials and seminars than on lectures, and to improve the examination system by making the examinations

more objective and giving credit to the students for their class work. They realize the importance of character-building and physical welfare for their students and the creation in them of a spirit of self-sacrifice and a desire to render social service by encouraging them to take part in labour camps and village development schemes and impressing upon them the dignity of manual labour; in a word, to make them keenly alive to the need of making their individual contribution to the building up of a more contented, prosperous and happy India. Student welfare and activities, therefore, loom large in their programmes. These students are keen on building roads and schools for the poor villagers and swimming pools and open-air theatres for themselves by voluntary labour during their vacations. The universities themselves are extending their teaching activities and giving greater scope to their teachers and students for the development of research. Among the new specialized courses recently introduced are business management, industrial engineering and industrial administration. Nuclear research is also receiving special attention. Building programmes are going forward all over the country. New scientific laboratories and more and better hostels are being built. The constitutions of the universities are being amended with a view to strengthening the academic element. The prospect for university education for the next few years is promising, although the heavy demands made on the country's finances by the urgent need for agricultural reform and industrial expansion have made it difficult for the government to provide adequate funds for the expansion of university education. The problem of the medium of instruction has yet to be satisfactorily solved amidst the conflicting claims of Hindi and the other regional languages.

**'INSTITUTIONS OF NATIONAL IMPORTANCE.'** In order to provide facilities on an extensive scale for postgraduate courses, advanced work and research in the various branches of science, engineering and technology, the Sarkar Committee recommended in 1945 that four institutions on the lines of the Massachusetts Institute of Technology be established, one in each of four regions of the country. Government accepted this recommendation and the first institution, named as the Indian Institute of Technology, Kharagpur, was established in 1950 in the eastern region as a government institution. Later, this institute at Kharagpur was declared by parliament as an institution of national importance under the Indian Institute of Technology (Kharagpur) Act, 1956. Three other institutions, named as the Indian Institute of Technology, Bombay, the Indian Institute of Technology, Madras, and the Indian Institute of Technology, Kanpur, were started in 1958, 1959 and 1960 respectively, and were registered under the Societies Registration Act, 1860. They have also since been declared as institutions of national importance, and all four institutions have been incorporated by an act of parliament, namely, the

Institutes of Technology Act, 1961. This Act came into force on April 1, 1962. Each of these institutes grants its own degrees, diplomas and other academic distinctions or titles. When fully developed, each will have 1600 undergraduate students and 400 postgraduate students (For further information about each of these four institutes, see separate entries below.)

**OTHER INSTITUTIONS OF HIGHER EDUCATION.** Although the universities cover the major part of the instruction in the field of higher education, it cannot be said that 'higher education' is synonymous with 'university education'. There are a number of institutions of higher education and research which work in collaboration with, or independently of, the universities. Thus, the Bhandarkar Oriental Research Institute, Poona, is a constituent, recognised institution of Poona University. The Tata Institute of Fundamental Research at Bombay, which provides instruction of a high order in specialized branches of physics, mathematics and other allied sciences, is recognised for the guidance of candidates for the masters' and doctors' degrees of Bombay University. The University of Bombay recognizes for its postgraduate degrees the research work carried on in the Indian Cancer Research Centre, Bombay, and in the Atomic Energy Establishment, at Trombay, under the guidance of the members of the research staffs of these institutions in subjects for which they have special facilities. The Central Building Research Institute, Roorkes, which is one of the national laboratories, works in close liaison with the University of Roorkes. The Lesther Research Institute, Madras, and the Harcourt Butler Technological Institute, Kanpur, stand in a similar relation to the universities of Madras and Agra respectively. The national laboratories, set up by the government of India, and some of the central research institutes, are recognised by many of the Indian universities as institutions which can send students working in them for the postgraduate research degrees of the universities concerned. The All-India Institute of Medical Sciences, New Delhi, established under an act of parliament (Act 25, 1956), and the Indian Institute of Technology, Bombay, give their own degrees in medicine and engineering, respectively. The Forest Research Institute, Dehra Dun, is a centre for the whole country for technical in-

struction in forestry, and confers the diploma of forestry research in India at the end of a year's course. The Central Food Research Institute, Mysore, conducts fundamental and applied research in different branches of food and a post-graduate course of two years in fruit technology, leading to an associateship of the institute. The Indian Statistical Institute, Calcutta, provides teaching courses leading to its associateship and fellowship. The Serampore College, West Bengal, functions as a university in the faculty of theology, while submitting its students in arts and science to the examinations of the University of Calcutta.

For further information about institutions of higher education and research other than statutory universities the reader is referred to the current edition of the *Directory of Institutions for Higher Education* published by the Ministry of Education, Government of India, New Delhi.

**FURTHER INFORMATION** (see also Appendix VI and the 'Publications' section in each university entry below). In addition to the *Handbook of the Indian Universities, 1958*, and other publications of the Inter-University Board of India mentioned on p. 470, the following may be consulted:

*University Education Commission Volume I Report and Appendix, Volumes II: Evidence* (Manager of Publications, Delhi, 1949 and 1951).

*Directory of Institutions for Higher Education*. (Ministry of Education, Government of India, New Delhi); annual.

*Report of the University Grants Commission, 1950-51* (U G C, New Delhi, 1951).

*Education in Universities in India*. (Ministry of Education, Government of India, New Delhi, 1959).

*Commonwealth Universities Yearbook*. (A.U.B.C., London), annual.

Information on specific university topics can be obtained in reply to written enquiries from:

The Secretary, Inter-University Board of India, 13 Lucknow Road, Civil Lines, Delhi.

The Ministry of Education, Government of India, New Delhi.

The Secretary, University Grants Commission, Rafi Marg, New Delhi, 2.

## DIRECTORY TO SUBJECTS OF STUDY

The following subjects in arts and science may be studied at most Indian universities: botany, chemistry, economics, English, French, geography, geology, German, Hindi, history of India and Europe (ancient, medieval and modern), mathematics, modern Indian languages spoken in the area, Pali, Persian, philosophy, physics, political

science, psychology, Sanskrit, sociology, statistics and zoology.

A list is given below of certain other subjects which may be studied at universities. Unless otherwise stated, the courses mentioned are for a first degree. Most universities which make provision for first degree courses also provide facilities

for master's and/or doctor's degrees in the same subject.

**African Studies** Delhi awards an MA in African studies

**Agriculture.** Courses leading to the BSc(Agr) or BA degree are provided by Agra, Allahabad, Andhra, Annamalai, Banaras, Bihar, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Karnataka, Kerala, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Poona, Rajasthan, Sardar Vallabhbhai Vidyapeeth, Saugar, Utkal and Vikram. A BSc(Dairying) is awarded by Panjab and a diploma in horticulture by Madras.

**Architecture.** Courses leading to a BArch are provided by Baroda, Bombay, Calcutta, Delhi, Madras and Roorkhee. Nagpur awards a diploma.

**Commerce and Business.** Except for Jadavpur, Roorkhee, S N D T Women's and Visva-Bharati, all universities have a bachelor of commerce degree. A master's degree in business administration is awarded by Andhra and diplomas by Aligarh, Bombay, Delhi and Madras. Bombay offers a diploma in industrial management and Baroda a diploma in banking.

**Dentistry.** The BDS is awarded by Bombay, Calcutta, Kerala, Lucknow, Madras, Mysore and Panjab.

**Education.** All universities except Bihar, Jadavpur and Roorkhee have courses leading to a BEd or BT or MEd degree, which are open to graduates in arts, science or commerce.

**Engineering, Agricultural.** Allahabad awards a BSc(AgrEngg) and Annamalai an MSc.

**Engineering, Automobile.** Bombay awards an ME.

**Engineering, Chemical.** Courses leading to BE or BSc(ChemEngin) are offered by Agra, Andhra, Annamalai, Banaras, Bombay, Delhi, Jadavpur, Madras, Nagpur, Osmania and Panjab.

**Engineering Civil, Electrical, Mechanical.** ABE or BSc(Eng) is awarded by all universities except Allahabad, Gorakhpur, Jammu and Kashmir, Lucknow, S N D T Women's and Visva-Bharati. See also Technology.

**Engineering, Highway.** Courses at Madras, Panjab (for MSc(Engg)) and Roorkhee (for ME).

**Engineering, Mining.** Courses at Banaras for BSc(Min) and MSc(Min), and at Rajasthan and Saugar for BE.

**Engineering, Public Health.** Annamalai awards an MSc and Roorkhee an ME.

**Engineering, Telecommunication.** Jadavpur, Madras, Poona, Rajasthan and Saugar have courses leading to a BSc(Tech) or BE or BT/IE.

**Fine Arts.** Degrees in the fine arts are offered by Baroda and S N D T Women's, and diplomas by Allahabad, Annamalai, Banaras, Baroda and Visva-Bharati.

**Forestry.** Courses at Delhi.

**Home Science.** Degree or diploma courses at Allahabad, Baroda, Calcutta, Delhi, Jabalpur, Madras, Nagpur and S N D T Women's.

**Indigenous Medicine.** Degrees in Ayurveda are offered by Banaras, Kerala, Lucknow and Poona, and in Unani medicine and surgery by Aligarh. Madras awards a BIM (Indian medicine).

**Journalism.** Diploma courses in journalism are offered by Calcutta, Madras, Nagpur, Osmania, Panjab.

**Law.** With the exception of Annamalai, Baroda, Jadavpur, Jammu and Kashmir, Roorkhee, S N D T Women's, Sri Venkateswara and Visva-Bharati, all universities have courses leading to the LLB or BL.

**Liberal Science.** Aligarh and Delhi each have degree and diploma courses. Kerala awards a degree. Aligarh, Andhra, Banaras, Baroda, Bombay, Calcutta, Madras, Nagpur, Osmania, Poona and Vikram have diploma or certificate courses only.

**Medicine.** The MB BS degree is awarded by Agra, Andhra, Banaras, Baroda, Bihar, Bombay, Calcutta, Delhi, Gauhati, Gujarat, Jabalpur, Karnataka, Kerala, Lucknow, Madras, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Rajasthan, Sri Venkateswara, Utkal and Vikram. Postgraduate diplomas are awarded as follows: *anaesthesia/anaesthesiology* Agra, And., Bda, Bom., Calc., Delhi, Madr., Osm., Panj., Patna; *cardiology* Calc.; *child health* Agra, And., Calc., Delhi, Madr., Osm., Patna, S. Venkat., Vikram; *clinical pathology* Kerala, Luck., Madr., Osm., Patna, Poona, S. Venkat.; *dermatology* And., Calc., Madr.; *forensic medicine* Bom.; *gynaecology and obstetrics* And., Bda, Calc., Kerala, Luck., Madr., Osm., Patna, S. Venkat., Vikram; *industrial health* Calc.; *laryngology and otology* And., Bda, Luck., Osm., Patna, S. Venkat.; *medical radiology and electrology/electrinity* Agra, Bda., Calc., Luck., Vikram; *ophthalmic medicine and surgery* Agra, Alg., Calc., Luck., Mys., Panj., Vikram; *ophthalmology* And., Bda., Medi., Nag., Osm., Patna, S. Venkat., *orthopaedics* Agra, Madr.; *oto-rhino-laryngology* Madr.; *psychological medicine* Bom., Madr.; *public health* Bom., Calc., Poona; *radiology* Madr.; *tropical medicine and hygiene* Calc.; *tubercular/tuberculosis/tuberculosis diseases* Agra, And., Bda., Calc., Delhi, Luck., Medi., Panj., Patna, Vikram, *venereology* And., Calc., Madr.; *venereology and dermatology* Bda., Bom.

**Metallurgy.** Banaras, Calcutta, Poona and Saugar provide courses leading to a BSc or BE.

**Military Science.** Lucknow awards a diploma.

**Museology.** Diploma courses at Baroda and Calcutta.

**Music.** Degrees in music are awarded by Annamalai, Banaras, Baroda, Calcutta, Madras, S. Venkat. and Visva-Bharati, and diplomas or certificates by Agra, Allahabad, Andhra, Anne-

Madras, Banaras, Benares, Gorakhpur, Madras, Patna, Poona and (music and dance) Visva-Bharati.

**Nursing.** Calcutta, Delhi, Madras and S.N.D.T. Women's offer a BSc in nursing.

**Oriental Learning.** Courses in oriental learning leading to bachelor's or master's degrees or diplomas, or (see below) oriental titles are provided by Andhra, Annamalai, Banaras, Baroda, Bihar, Jamia and Kashmir, Kerala, Madras, Osmania, Nagpur, Panjab, Patna, Poona, Rajasthan, Saugar and Utkal. Sanskrit, Pali and the modern Indian languages are taught in almost all universities.

**Pharmacy.** Degrees (BPharm or BScPharm) are offered by Agra, Andhra, Banaras, Bombay, Gujrat, Madras, Mysore, Nagpur, Panjab, Rajasthan and Saugar.

**Photography.** Allahabad awards a certificate and Gorakhpur a diploma.

**Physical Education.** A degree (BPE) is awarded by Vikram and diplomas by Lucknow, Madras, Osmania and Panjab.

**Public Administration.** Nagpur has a post-graduate course for the MA. Lucknow, Madras, Osmania and Patna have diploma courses. A diploma in local self-government (administration) is awarded by Allahabad and Nagpur.

**Religion and Culture.** Aligarh awards a degree in religion (BTh). Courses at Osmania.

**Russian.** Diplomas or certificate courses at Aligarh, Allahabad, Delhi, Lucknow, Osmania.

**Social Work.** Degrees or diplomas are awarded by Agra, Allahabad, Andhra, Annamalai, Baroda, Calcutta, Delhi, Gorakhpur, Lucknow, Madras, Patna and Vikram.

**Technology.** Applied chemistry is taught only at Calcutta, *ceramics & glass technology* only at Banaras, *food technology* at Bombay and Kerala, *intermediates & dyes, pigments, paints & varnishes and plastics* only at Bombay, *leather technology* at

Madras, *oil technology* at Nagpur and *textile technology* at Calcutta. Calcutta offers diplomas in jute technology and soap technology. Degree courses in *textile technology* and/or *textile chemistry* are offered by Baroda, Bombay, Delhi, Madras, Mysore and Panjab. See also Architecture, Engineering, Metallurgy.

**Veterinary Science.** Agra, Andhra, Bihar, Bombay, Calcutta, Gauhati, Jabalpur, Kerala, Madras, Mysore, Nagpur, Osmania, Panjab, Rajasthan, Saugar, Sri Venkateswara, Utkal and Vikram offer courses leading to a BVSc or BVSc&AH or BSc(Vet).

### Oriental Titles

Acharya Ban., Bda, Luck., *Adh-a-Fazl* Madr., S. Venkat., *Afaal-ul-Attibba* Madr., *Afaal-ul-nimra* Kerala, *Afaal-ul-Ulana* Madr., S. Venkat., *Alam* Luck., *Aynoodadacharya* Ban., *Bharha* Provenza And., *Bhudevan* Panj (I), *Bhudevan* Panj (I), *Chakravarty* Ban.; *Dalvi-i-Kamil* Luck., *Dalvi-i-Mahul* Luck.; *Fazl-i-Adab* Luck., *Fazl-i-Tafus* Luck., *Gyan* Panj (I), *Kala-Prapanna* And., *Karwa* Kani *Shasti* Ban.; *Madhyama* Ban.; *Madhyama* Pariksha Ban., *Malpan* Madr.; *Manu* Nag., *Manu* Agra Nag., *Manu* Fazi Nag., *Mawati* Nag., *Musli* Allah Nag., *Musli-i-Fazl* Madr., S. Venkat., *Musli-i-Fazl* Nag.; *Pasarak* Bda., *Pasarak* Ratna Ban., *Prabhat* Panj (I); *Pragya* Jabalpur, Nag. Panj (I), *Pulawa* Anam., *Rattan* Panj (I), *Safiyat* Soomana Kerala, *Saguta* Bakhana Anam.; *Saguta* Soomana Madr., *Shastacharya* Ban., *Shasti* Ban., Bda, Jabalpur, Luck., Nag, Panj (I); *Sirawan* And., Annam., Madr., S. Venkat.; *Sappar* Madr., *Talib-i-Kamil* Madr., S. Venkat.; *Upadhyaya* Bda.; *Vachaspati* Ban., Bda., *Vedacharya* Ban.; *Ved* Shasti Ban., *Vishva* Kerala, Madr.; *Vishva* And., Annam., Panj (I), S. Venkat.; *Vidya* Provenza And., *Vishva* of Bda., Jabalpur, Nag., Panj (I).

## STATISTICS

[Source: Ministry of Education, Government of India]

**TOTAL STUDENT ENROLLMENT.** In 1959-60, 839,146 students were enrolled in Indian universities, their constituent and affiliated colleges and colleges affiliated to state boards of intermediate education. This figure was made up as follows —

**General education**\*: pre-university students, 121,010; intermediate students, 216,732; BA and BSc students, 231,751; MA and MSc students, 41,709; students studying for doctorates, 4,335; diploma and certificate students, 686. Total: 642,505.

\* 'General education' includes arts, science, oriental studies, fine arts, etc. 'Professional education' includes agriculture, commerce, education (teachers' training), engineering and technology, law, medicine, veterinary science, etc.

**Professional education**\*: pre-professional students, 15,190; intermediate students, 10,877; first degree students, 150,716; postgraduate students, 10,433; students studying for doctorates, 469; diploma and certificate students, 915. Total: 196,843.

**STUDENTS FROM ABROAD.** The total number of students from abroad enrolled in 1959-60 was 1371. The countries from which they came were: Afghanistan, 15; African countries, 812; Bhutan, 5; British Guiana, 11; Burma, 76; Cambodia,

3, Ceylon, 902; Czechoslovakia, 1; China, 16; Fiji, 29; Germany, 10; Indo-China, 1; Indonesia, 30; Iran, 6; Iraq, 4; Ireland, 5; Italy, 1; Japan, 7; Laos, 1; Malaya, 273; Malta, 1; Mauritius, 27; Nepal, 531; Pakistan, 373; Philippines, 5; Saudi Arabia, 9; Sikkim, 18; Thailand, 42; Tibet, 3; United Arab Republic, 2; United Kingdom, 6; U.S.A., 18; West India, 21; others, 107.

**DEGREES AWARDED (1959)** The following first and higher degrees were awarded —

*General education* \* : arts/science, 98,830; fine arts, 17; home arts/home science, 199; music, 25; oriental studies, 24; social work, 168; theology, 6. Total : 99,269.

*Professional education* \*, agriculture, 2422; commerce, 14,474; education, 13,535; engineering & technology, 5586; law, 6674; library science, 28; medicine, 4467; veterinary science, 888. Total : 48,074.

*Doctors* (general and professional education \*) : 307.

\* 'General education' includes arts, science, oriental studies, fine arts, etc. 'Professional education' includes agriculture, commerce, education (teachers' training), engineering and technology, law, medicine, veterinary science, etc.

# AGRA UNIVERSITY\*

Founded 1927

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VICEROY—THE STATE GOVERNMENT OF UTTAR PRADESH

CHANCELLOR—THE GOVERNOR OF UTTAR PRADESH

VICE-CHANCELLOR—P. D. GUPTA, MA

REGISTRAR—R. S. AGRAWAL, BCom

HON. LIBRARIAN—R. N. SAKSINA, MA PhD DLitt

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : T. P. Mital, BCom Asst. Registrar : K. B. Asthana, BA LLB (Confidential); M. M. Mehrotra, MA (Economics), C. Sen, BA (Accounts), S. Lal, BA (Admin); B. L. Gupta, MA PhD (Press & Publications).

## UNIVERSITY INSTITUTIONS

*Agra, Agra Univ. Institute of Social Sciences* (tel. 3267). MA (in social). MSW, MSc (Stats). Dir.—Prof. R. N. Saksena, MA PhD DLitt. Prof.: D. D. Joshi, DSc Asst. Prof.: C. Pandey, MSW, R. Prasad, MSW; R. N. Srivastava, MA PhD; S. K. Srivastava, MA PhD; D. S. Choudhary, MA PhD; A. S. Mathur, MA, S. Bahadur, MA; V. K. Sethi, MSc, J. C. Gupta, MSc; D. N. Dhanagare, MA, S. Chandra, MA; S. N. Jauhar, MA MSc, B. Singh, MSc.

*Agra, K.M. Institute of Hindi Studies and Linguistics, Agra Univ. MA* (in linguistics & comparative lit.); MA (in Hindi, sp. alternative course with Indian linguistics and lit. crafts); certs. of proficiency in mod. Indian langs. and foreign langs. Off. Dir.—Prof. G. S. Satyendra, MA PhD DLitt, V. V. R. Sharma, MOL, N. A. Vyas, MA BT; R. G. Harib, DLitt; R. N. Saksena, MA; A. R. Kulkarni, PhD; J. Parthasarathy, MA; V. D. Pandey, MA, L. N. Mittal, MA; M. L. Upadhyay, MA MLitt

## AFFILIATED COLLEGES

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SAHARANPUR, *Maharaj Singh Degree College*. BSc, MSc. Principal—Hds. of Depts. PHYS.—J. P. Gupta, MSc; BOT.—S. K. Goswami; ZOOL.—T. C. Manjupura, MSc; MATHS.—M. Chandra, MA.

SAHARANPUR, *G F College* (tel. 183). BA; BSc. Hds. of Depts. ECON.—Principal M. Wasi, MA *Alid*, ENGL.—M. Y. Rashid, MA; HINDI—S. Sunder, MA Nag.; HIST. AND POL.—R. K. Islam, MA Luck.; UNCO AND PERSIAN—A. S. Khan, MA; CHEM.—Y. H. Ravi, MSc *Alig*, PHYS.—M. B. Navil, DSc; ZOOL.—I. Hui, MSc *Alid*, BOT.—S. S. Hassan, MSc; GEOG.—M. Ahmed, MA, MATHS.—W. A. Siddiqui, MSc.

SHAMLI (MUZAFFARNAGAR), *Vaish Degree College*. BA; MA. Hds. of Depts. ECON.—Offg. Principal K. N. Pathak, MA LLB PhD, HINDI—S. S. Gupta, MA; POL. SCI.—G. P. Garg, MA; ENGL.—K. L. Sharma, MA PhD;

HIST—H R Verma, MA, GEOG—G C Srivastava, MA LLB, MATHE—

SHAMLI, *Rastriya Kisan College*. BSc(Ag) Hds of Depts : CHEM—Principal L S Bhatia, MSc PhD, MATHE—D P Singh, MSc, PHYS—Rashid Singh, MSc, STATIS—A S Arya, MSc, ZOOL—R N Mehra, MA; BOT—V P Singh, MSc; AGRON—N K Mehta

SHIKOHABAD, *Ahar Kshatriya College* (tel. 16). BA; BT. BCom Hds of Depts : EDUCN—Principal I. B. Verma, MA MED, ENGL—I B Verma, MA MED; PHILOS—R P. Jain, MA, MATHE—R Singh, MSc *Alld.*; HINDI—R. L. Vaid, MA, HINDI AND POL.—M P. Yadav, MA, SANSKR—R S Yadav, MA; MILIT. STUDIES—B N Roy, COMM—R P. Yadav, MCom, ECON—K N Tiwari, MA; GEOG.—S Q A. Rizvi, MSc

SHIKOHABAD, *Narain Degree College* (tel. 54). BA; BSc. Hds of Depts : ZOOL.—Principal M S Sood, MSc LT PhD, CHEM—P. U. Kunte, MSc, BOT—K. L. Saxena, MSc, MATHE—R S Pal, MSc; PHYS.—G. S. Tyagi, MSc, ENGL—M K Misra, MA, HINDI—S C Dubey, MA, POL. SCI—H O. Mittal, MA; ECON.—R S. Sharma, MA, SOCIOL.—S. K. Kapoor, MA.

SHIKOHABAD, *J.S. Degree College* BA Hds of Depts : HINDI—Principal S. P. Bhatnagar, MA; ECON.—K S Bhatnagar, MA, HIST—Ranjit Singh, MA; ENGL—R. Nandi, MA; POL. SCI—K Sarbajit, MA, GEOG—R P. Nigam, SOCIOL—Y P Sinha.

SHIMRAGLI, *R.S.K. College*. BA, BSc(Ag) Hds. of Depts : ECON—Principal M P Johi,

MA, CHEM—B. Singh, MSc, ENGL—S R Singh, MA; HINDI—R N Bhargava, MA, HIST—R G Misra, MA, ZOOL—G S Sharma, MA; DRAWING AND PAINTING—M P Sharma, MA; BOT—D N Tyagi, MSc, GEOG—N R Tewari, MA; POL. SCI—Narendra Singh, MA, ENGLISH—G S. Sharma, MA

SHIRNAGAR (GARHWAL), *Bula Gout Degree College* BSc Principal—M M. Bokadia, MSc PhD DPhil Hds of Depts : MATHE—S. P. Mathur, MA BSc, ENGL—A C Chatterji, MA, BOT—S N Dhawalakhandi, MSc, ZOOL—P P Gupta, MSc; PHYS.—J P Joshi, MSc

SITAPUR, *Hindu Kanya Pathshala Degree College* (tel. 150) BA Hds. of Depts : HINDI—Principal Mts Savitri Aora, MA; ENGL—Gurudhar Lal, MA; POL. SCI—Miss Shula Tiwari, MA, EDUCN—Miss Sarla Kapoor, MA, HIST—Miss B Mathur, MA.

SITAPUR, *R.M.P. Degree College* BA. Principal—J. P. Gupta, MA PhD Hds. of Depts : ENGL—S. Chandni, MA; HINDI—B. Singh, MA; POL. SCI—K C Basrai, MA, ECON—K C. Gaur, MA MCom.

UNNAO, *Dayanand National College* (tel. 31) MA; BCom; BT. Hds of Depts : HIST—Principal L. N. Misra, MA LLB Luck; POL. SCI—K D Tripathi, MA Luck; HINDI—N. N. Dhillon, MA, SANSKR—V S Shastri, MA; PHILOS—, ECON—M. C. Savana, MA; ENGL—S. D. Kher, MA, SOCIOL—D L. Shukla, MA, COMM—K S Srivastava, MA MCom, EDUCN—V Dayal, MA LT, GEOG—K G. Sinha, MA

## GENERAL INFORMATION

Act VIII of 1926 of the United Provinces legislature, which came into force on July 1, 1927, provided for the establishment of a university for the purpose of affiliating the colleges associated with the Univ of Allahabad... to as to set the latter free to function as a unitary teaching and residential univ. It empowered Agia Univ to affiliate colleges in Uttar Pradesh, Madhya Bharat, Vindhya Pradesh, Ajaier and Bhopal, except within the limits of the univs. of Allahabad and Lucknow. The act as amended has now confined the univ.'s jurisdiction to Uttar Pradesh, except for the areas of Aligarh, Allahabad, Banaras, Gorakhpur, Lucknow and Roostee Univs. To supplement the work in affiliated colls, the univ. may institute teaching posts at selected centres. There is an Inst. of Hindi Studies & Linguistics and an Inst. of Soc. Sci. (see before)

Six categories of persons are eligible, subject to prescribed conditions, for degrees and other academic distinctions: (a) candidates who pass the univ.'s exams. after pursuing an approved course at an affiliated coll.; (b) teachers who pass the univ.'s exams.; (c) inspecting officers in the

dept. of educn. who pass the univ.'s exams.; (d) res. workers; (e) women who have carried on private study; (f) librarians or ext. librarians in the librs. of the univ. or of its affiliated colls, having served for 3 yrs. prior to date of commencement of exams. Lectures and instruction may be provided by the univ. for, and dipls. may be granted to, persons other than students of an affiliated coll.

CONSTITUTION.—The supreme governing body of the univ. is the senate, the other principal authorities being the exec. council, academic council and facs. The vice-chancellor is a whole-time salaried officer apptd by the chancellor from amongst persons whose names are submitted to him by the ottee, constituted in accordance with the provisions of the act, as amended. He is the principal exec. and academic officer.

INCOME (1960-61) Total income, Rs. 3,090,465 (incl. Rs. 2,632,661 from exam. fees, Rs. 285,247 govt grants)

FACULTIES AND DEANS. *Agric.* S P. Dheondyal; *arts*, Pdt J. N. Tewari; *comm.* N. K. Chaddha;



eight, B. D. Satsangi, *Assess.*, ... , *Ins.*, G. P. Saksena, *Med.*, Principal P. N. Wahi, *Sci.*, M. P. Gupta, *Technol.*, Principal H. Trivedi; *vet. sci.* & *animal hush.*, S. K. Talapatra

**LIBRARIES** 71,200 vols and periodicals in univ. res. library. In addn, each of the affiliated colls. is required to maintain a libr. of its own

**INSTITUTE OF HINDI STUDIES** Offers instructn for MA in linguistics & comparative lit., MA in sp. Hindi, certs. of proficiency in foreign langs., in Hindi (for those whose mother tongue is not Hindi) and in mod. Indian langa. other than Hindi (for those whose mother tongue is Hindi). See also p. 475.

**INSTITUTE OF SOCIAL SCIENCES** Offers instructn for MA in sociol., MSc in stats and MSW. See also p. 475

**ADMISSION** Students are not eligible for admission to a degree course unless they have passed the inter. exam. of the bd. of high sch. and inter. educn. of Uttar Pradesh, or of an Indian univ. incorporated by law, or an equivalent exam. No inter. or pre-univ. courses are given in the affiliated colls.

**FIRST DEGREE** BA, BSc, BSc(Ag), BSc(Tech), BSc(Pharm), 2 yrs., BCom, 3 yrs. (a yrs. for those who have passed inter. exam. with comm. subs.); BVSc&AH, BSc(Engg), BSc(Chem Engg), BText, GHMS (homeopathic med. & surg.), 4 yrs.; MB BS, 5 yrs.

**HIGHER DEGREE** MED, BT, 1 yr., LLB, MA, MSc, MSc(Ag), MCom, MVSc, MSW, 2 yrs.; LL.M., 1-2 course, exam. taken 2 yrs. after LLB, PhD (in arts, sci., comm., agric., med.,

vet. sci.) by thesis, 2 yrs. after master's degree, DLitt (in arts, comm.), DSc (in sci., agric.), by thesis, open to PhDs or masters of arts, comm., sci., agric., of at least 5 yrs. standing, MD, MSc, by thesis and exam. (written & clin.), open to holders of MB BS of the univ. after 3 yrs. practice

**HONORARY DEGREE** DLitt, DSc, LL.D.

**DIPLOMAS** Music, 1 yr., highest proficiency in Hindi phonetics, 3 mos. Postgrad. anaesthesia, child health, embryol., med. radiol. & electrol., ophthalmic med. & surg., orthopaedics, tuberculosis, each 1 yr.'s course in addn. to 1 yr.'s internship in a recog. hosp.

**ACADEMIC YEAR** July to April 2 terms. Term dates (approx.). July 8 to Dec. 21; Jan. 2 to April 26.

**USUAL LANGUAGES OF INSTRUCTION** English and Hindi.

**SCHOLARSHIPS** 10 res. scholps and 433 bursaries to poor and meritorious students in degree and postgrad. classes for non-profess. courses. Merit scholps. to merit holders at BA, BSc, BCom and BSc(Ag) exams each yr.

**NATIONAL CADET CORPS** Many affiliated colls. have N.C.C. units.

**PUBLICATIONS** Calendar (usually once in 3 yrs.), Ra. 8; Handbook (annually), Ra. 3; Research Journal (twice yrlly), Ra. 20 for vol and Ra. 15 for letters yrlly., or on exchange basis. The univ. also publishes text-books.

**UNIVERSITY PRESS** Establd. in 1951 in univ. premises.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	30,846	11,376
Women . . .	5,456	5,490
Total . . .	45,302	16,866

**Distribution by Faculties** Agric., 4522, arts, 36,162, comm., 5255; educn., 2333; engin., 395; law, 3030; med., 526; sci., 11,390; technol. & textiles, 95, vet. sci., 540. Total, 62,168.

Included in the figures above are :-

Intermediate or Pre-University students, and

Postgraduate students, 15,196

New admissions, 36,391

Students from other countries, 24. (Country from which largest number came: Nepal, 8)

**DEGREES AWARDED (1960-61)** Agric., BSc (Ag), 665; MSc(Ag), 173. Arts: BA, 6323; MA, 4025; MSW, 26. Comm. BCom, 1068; MCom, 566. Educn.: BT, 1693, MEd, 22. Engin.: BSc(Engg), 45. Law: LLB, 630. Med.: MB BS, 71, MS, 7; MD, 10. Sci.: BSc, 2256; MSc, 462. Technol.: BSc(Tech), 9, BSc(Chem Engg), 18, MSc (technol.), 9. Vet. sci.: BVSc&AH, 111; MVSc, 46.

**DIPLOMAS AWARDED (1960-61)** DCH, 4; DMRE, 3; DOMS, 2; DA, 2, hr. proficiency in Hindi phonetics, 2

# ALIGARH MUSLIM UNIVERSITY\*

Founded 1920

Postal Address: Aligarh, Uttar Pradesh, India  
Cables and Telegrams: Muslim University, Aligarh, Uttar Pradesh  
Telephone: Aligarh 73

VISTOR—THE PRESIDENT OF THE REPUBLIC OF INDIA

CHIEF RECTOR—H E. THE GOVERNOR OF UTTAR PRADESH

CHANCELLOR—HIS HOLINESS MULLA S. T. SAITUDDIN SAHIB

PRO-CHANCELLOR—NAWAB SAIDUL MULK BAHADUR H. M. A. SAID KHAN SAHIB OF CHATTARI, LL.D

VICE-CHANCELLOR—B. F. H. B. TYABJI

PRO-VICE-CHANCELLOR—YUSUF HUSAIN KHAN, LLitt *Poem*

TREASURER—HAJI OBAIDUR RAHMAN KHAN SAHIB SHIHWANI

REGISTRAR—M. M. SIDDIQI

LIBRARIAN—S. BASHIRUDDIN, MA, FLA

## TEACHING STAFF

[† = Part-Time, \* = Chairman of Dept; § = Women's Coll.]

### Arabic and Islamic Studies

Aloim, A., PhD *Berl*, BA \*Prof.  
Ahmad, S. M., MA *DLitt DPhil Oxon.* Reader  
Mustafa, H. G., MA Lectr.  
Sherwan, R. R. K., MA *Pap.* Lectr.  
Ali, A., MA *DPhil Alld* Lectr.  
Ansari, M. M., Alameiyah *Al-Azhar* Lectr.

Rahman, A., Dr *RerNat Tibingen*,  
MSc *Luck*, PhD (on leave) Lectr.  
Qureshi, M. M., PhD *Louisiana*, MSc Lectr.  
Rahman, W., MSc PhD Lectr.  
Zaidi, A. A., MSc Lectr.  
Abraham, N. A., MSc PhD Lectr.  
Siddiqi, M. S., MSc PhD Lectr.  
Oman, M., MSc PhD Lectr.  
Surti, A., MSc Lectr.  
Gupta, G. S., MSc PhD Lectr.  
Ahmad, M. S., PhD *Mewar*, MSc Lectr.  
Beg, M. A., MSc *DPhil Alld.* Lectr.  
Varshney, I. P., MSc PhD Lectr.  
Ahmad, N., MSc Lectr.  
Khan, N. H., MSc Lectr.  
Naum, Z., MSc Lectr.  
Islam, N., MSc Lectr.  
Munhaj, Miss Fatima, MSc PhD §Lectr.  
Pal, Miss Shakti R., MSc *Pap.* §Lectr.  
Nasim, Mrs. A., MSc Lectr.

### Botany

Chowdhury, K. A., MS *Syn.*, DSc *Edu.*,  
FNI \*Prof.  
Khan, R., PhD *Dalh.*, MSc Reader  
Khan, A. M., PhD *Minn.*, MSc Reader  
Husain, A., MSc *Alld*, LLB Lectr.  
Ansari, M. S., MSc *Luck.* Lectr.  
Abbas, A., MSc *Alld* (on leave) Lectr.  
Farooq, M., MSc Lectr.  
Khan, M. R., PhD *Buit*, MSc Lectr.  
Hao, O., MSc (on leave) Lectr.  
Mahmud, K., MSc Lectr.  
Naqvi, Miss Zubaida, MSc §Lectr.  
Ahmad, S., MSc §Lectr.  
Siddiqi, M. A., PhD *Water*, MSc Temp. Lectr.  
Saxena, S. K., MSc PhD Temp. Lectr.

### Commerce

Farooque, Q. H., MA *BCom Luck.*,  
MSc(Econ) *Lond* \*Prof.  
Ravi, F. H., MA *BCom Agri.*,  
BCom *Luck.*, PhD *Edu.* Reader  
Imam, M., MA LLB §Lectr.  
Hafizuddin, M., MA *BCom Agri.* (on leave) Lectr.  
Farooq, I. H., MA *BCom LLB* (on leave) Lectr.  
Mohsin, M., MA *BCom Agri.* Lectr.  
Samiuddin, MA *BCom* Lectr.  
Rahman, H., MA *BCom LLB* Lectr.

### Chemistry

Koslaw, A. R., BSc *Jawin*, MS *Ill.*,  
PhD *Conn*  
(Biochem.) Reader, Actg. Hd. of Dept  
Husain, I., MSc PhD *Manc.* Reader  
Malk, W. U., MSc PhD *Agri.*, DSc Reader  
Rahman, S. M. F., MSc Reader  
Hassan, H., MSc PhD Lectr.

\* Member of the Association of Universities of the British Commonwealth

Hgh, S. M., MA BCom LLB	Temp. Lectr	Naqvi, R. A., MA	Lectr
Hissan, N., MCom <i>Alld</i> , PhD	Temp Lects	Abedin, S. Z., MA	Lectr.
<b>Economics</b>		Yasin, M., MA	Lectr
Khan, M. S., AM <i>Islck</i> , MA	*Prof	Yudhashter, MA Luck.	Lectr
Solun, A., MSc(Econ) <i>Load</i> , MA	Reader	Razada, H., MA	Lectr
Bhatnagar, P. C., MA DPhil <i>Alld</i>	Reader	Ansuari, K. H., MA	Lectr
Haseeb, A., MSc(Econ) <i>Load</i> , MA LLB	(on leave) Lectr	Hashmi, Miss Shahnaz, MA	§Lectr
Siddiqi, E. R., PhD Bonn, MA	Lectr	Zaidi, Miss Zahida, BA <i>Cont.</i> , MA	§Lectr
Siddiqi, A. A., MA Luck, PhD	Lectr.	Khan, Mrs. Razia, MA	§Lectr
Qayum, A., MA LLB PhD	Lectr	Rahman, Mrs. Mumbur, MA	(French & German) Lectr
Raz, M. A., MA <i>Saug &amp; Stav</i>	Lectr	Ahmad, Mrs. Audrey J., PhD	(Russian) Lectr.
Naqvi, K. A., MA PhD Luck	Lectr	<b>Geography</b>	
Qureshi, I. A., AM <i>Islck</i> , MA	Lectr.	Risvi, S. M. T., BA PhD <i>Load</i> , MA LLB	*Prof.
Joseph, Miss A., MA LT <i>Med</i>	§Lectr.	Shafi, M., MA PhD <i>Load</i> .	Reader
Thomas, Miss A., MA <i>Agra</i>	§Lectr.	Zaidi, S. R. H., PhD <i>Edu</i> , MSc	Reader
Raza, A., MA LLB	Temp Lectr.	Ahmad, M., MSc	Lectr
Alvi, M. H., MA LLB	Temp Lectr.	Rafiqullah, S. M., MA	Lectr
Ahmed, I., MA <i>Missouri &amp; Alg</i>	St. Res. Fellow	Anna, M., PhD <i>A N U.</i> , MA	Lectr.
<b>Education</b>		Raza, S. M., MA	Lectr.
Mujib, A., MSc MED PhD <i>Col</i>	*Prof.	Aziz, A., MSc	Lectr.
Zaidi, Q. H., MAEd <i>Col.</i> , MA MSc BT	Reader	Siddiqi, N. A., MA	Lectr
Hussain, I., MA DipEd <i>Leeds</i> , BA	Reader	Raza, M., MA LLB	Lectr.
Khan, M. H., MA BT MED <i>Patna</i> , PhD <i>Clark</i>	Lectr.	Alvi, S. Z., MA LLB	Lectr
Ansuari, A., MA BT	Lectr	Qidwai, Miss Saeda W., MA	§Lectr
Zaidi, Miss Sabira K., MAEd <i>Col.</i> , MA BT	Lectr.	Naqvi, Miss Rashida, MA LT	§Lectr
Ashura, B. C., BEd <i>Edu.</i> , DipEd CT <i>Brst.</i> , MA LLB <i>Alld</i> (on leave)	Lectr.	<b>Geology</b>	
Bahadur, B., MEd <i>Patna</i> , MA BSc	Lectr	Gauya, P. N., MSc <i>Bau</i> , PhD Luck. & <i>Dwrh</i>	*Prof
Khan, M., MA MED	Lectr	Rasul, H., MSc <i>Calc</i>	Lectr
Ansuari, Mrs. Gazala, MA <i>Load</i>	Lectr.	Ali, M. S. B., MSc <i>Calc</i>	Lectr
Sultana, Miss Safia, BA BT MED	Lectr.	Ahmad, N., MSc <i>Patna</i> , PhD <i>Tas</i>	Lectr
Verma, Mrs. Zahra, MA MED	Lectr.	Srivastava, V. K., MSc <i>Bau</i> , MA <i>Balthwore</i>	Lectr.
Zaidi, Mrs. Sajida, MA MED	Lectr	Pant, I. D., MSc	Lectr.
Oman, Z., MA MED	Lectr	Hussain, A., MSc	Lectr.
Kamaluddin, MSc BEd(Sc) Luck., DipEd <i>Edu</i> , DPhil <i>Bau</i>	Lectr	<b>Hindi, see Sansk. and Hindi</b>	
Rahman, E., BA MED	Lectr	<b>History</b>	
Singh, M., MA MED	Lectr	Hasan, S. N., MA <i>Alld</i> , DPhil <i>Oxon.</i> , FRHistS	*Prof.
Jog, R. N., BSc MED <i>Bau.</i> , MA <i>Load</i> .	Lectr.	Nazam, K. A., MA LLB <i>Agra</i>	Reader
Ansuari, Mrs G. B. I., MA <i>Load</i> .	Lectr.	Chandra, S., MA DPhil <i>Alld</i> .	Reader
Abid, M., DipPhysEd Luck. (Phys. E) Insti		Hasan, M., BA <i>Load</i> .	Reader
<b>Engineering, see below</b>		Kureshy, A. W., MA LLB	Lectr
<b>English</b>		Habib, I. M., DPhil <i>Oxon.</i> , MA	Lectr
Bose, A., MA <i>Dacca</i> , DPhil <i>Oxon.</i>	*Prof.	Malik, Z., MA <i>Agra &amp; Alg.</i> , PhD	Lectr
Hossain, S. M., MA	Prof.	Siddiqi, Mrs. A., BA <i>Oxon.</i> , MA <i>Alld</i> .	(on leave) Lectr
Khan, B. A., MA Luck.	Reader	Shakoor, Miss Abida, MA	§Lectr
Ansuari, A. A., BA <i>Oxon</i> , MA	Reader	Adhama, Mrs. K. F., MA <i>Calc</i>	§Lectr
Khan, S., MA	Lectr.	Siddiqi, N. A., MA PhD	Lectr
Hasan, M., MA	Lectr	Khan, I. A., MA LLB	Lectr
Ahmad, M., PhD <i>Bau.</i> , MA	Lectr	Ali, A., MA LLB	Lectr
Rahman, A., BA <i>Cont.</i> , MA	Lectr	Siddiqi, Z., MA LLB	Lectr
Zahr, J., MA Luck.	Lectr.	Gruir, R. C., MA	Temp. Lectr
Jefti, A. R., MA	Lectr	Mehdi, S. S., MA	Temp Lectr.
Govil, O. P., MA PhD	Lectr.	<b>Islamic Studies, see Arabic</b>	
Singh, G., MA PhD	Lectr		
Taig, A., MA	Lectr.		

**Law**

Rahman, H., SJD Penn, BA LLB	
Dayal, S. BSc LLB Lach, STD Msk., Dip Inten Law Mawc	
Rashidulnadir, M., BA LLB Lach, LLM	
(on leave)	
Hasan, S. M., JSD Yale, BCom LLM	
Khan, K. G. A., MCom LLB	
Khan, M. M. A., MSc LLM	
Mauzy, B. P., MSc LLM	
Khan, M. R. A., MA LLB	Temp
Shahid, Z. M. S., BSc LLB	Temp

**Mathematics and Statistics**

Siddiqui, J. A., MA DPhil Alld.	*Prof
Rastogi, J. S., MA PhD Sim	Reader
Raza, M. A. K., MA	Reader
Qamar, S., MSc	Reader
Hussain, A., MA	Lectr
Kokan, A. R., MA Mads.	(on leave) Lectr
Khan, N. A., MA PhD	(on leave) Lectr
Ahmad, M., MA PhD	Lectr
Ramanujan, DSc Mads.	Lectr
Mohsin, M., MSc	Lectr
Kulshatra, P. K., MA	Lectr
Ruvo, M. H., MSc	Lectr
Khanna, Miss Gurja, MA DPhil Alld	§Lectr
Neeyamni, Z. M., MSc	Lectr
Ali, S. M., MSc Lach	Lectr
Islam, Z., MA Lach	Lectr
Zaki, M., MSc	Lectr
Hanif, M., MSc BEd	Temp Lectr
Warsi, S. A., MSc	Temp Lectr
Haz, A., MA	Temp Lectr
Sultan, I., MSc	Temp Demr

**Medicine, see below****Persian**

Ahmed, N., PhD DLitt Lach,	
Dipl Tehran	
Ismlt, S., Dipl Tehran, MA LLB BT	
PhD	
Hadi, S. N., MA BSc LLB PhD	Lectr.
Fakhruzzaman, Mrs Unanabani, MA	Lectr.

**Philosophy and Psychology**

Umazuddin, M., MA Calc. & Alig., BT	*Prof
Siddiqi, Z. A., MA	Reader
Ansari, A., MA PhD Lond.	Reader
Hussain, I., MA PhD	Lectr.
Syed, M. A., MA LLB PhD	Lectr.
Chowdhury, K. R., MSc Calc., PhD Lond	Lectr.
Beg, M. A., MSc	Lectr
Khawaja, A. J. Y., BA Camb., MA LLB	(on leave) Lectr.
Qadri, A. J., MA LLB	Lectr.
Ali, S. N., MSc	Temp Lectr.
Nabu, N., MA LLB PhD	Temp Lectr.
Nabu, Mrs Syda S., MA MED	Demr
Ruvo, S. A. H., MA MED	Demr
Khan, I. A., MSc	Demr

**Physics**

Gill, P. S., MS S Calif, PhD Chic, FNI	*Prof
Mitra, A. N., MSc PhD Delhi & Can	(on leave) Reader
Venkatapurthi, P., DSc Bav	Reader
Hans, H. S., MSc Bav, PhD	Reader
Haq, E., MSc	(on leave) Lectr.
Ali, S. A., MSc PhD	Lectr.
Khan, M. A. B., MSc	Lectr
Mohammad, F., MSc	(on leave) Lectr
Khan, A. A., MSc	Lectr
Sareir, D. C., MSc Dacca, PhD	(on leave) Lectr.
Saxena, R. P., MSc PhD	Lectr
Shafi, M., PhD Brst., MSc	Lectr.
Singh, M. P., MSc	(on leave) Lectr
Khan, M. Z. R., PhD Mawc., MSc	Lectr.
Ahmed, N., MSc	Lectr.
Dbeer, Mrs. J. D., MSc	§Lectr
Khan, S. A., MSc	Temp Lectr
Tyagi, R. K., MSc	Temp Lectr
Ibad, R., MSc	Temp Lectr
Thera, S. H., MSc	Temp Lectr
Haq, H. E., MSc	Temp Lectr
Yadava, R. S., MSc	§Temp Lectr

**Political Science**

Sultan, C. M., MA Lach.	*Prof.
Ali, S. N., MA LLB	Reader
Haqqi, A. H., BA Lach, MA PhD Lond., LLB	Reader
Qadwani, M. H., MA Lach.	Lectr.
Munazzaman, M., MA	(on leave) Lectr
Bilgrami, S. A. H., MA Lach, PhD	(on leave) Lectr
Usmani, A. F., MA	Lectr.
Beg, A. S., MA LLB	Lectr.
Mukhtar, Miss Akhtas, MA	(on leave) §Lectr
Khan, M., MA PhD	Lectr
Sharma, A. P., MA	Lectr
Khan, Miss Kulkarni H. A., MA	§Lectr
Samuiddin, Mrs Abida, MA	§Lectr
Qayum, S. A., MA	Temp Lectr

**Sanskrit and Hindi**

Sharma, H. L., MA PhD Agra, DLitt Nag.	*Prof.
Shukla, G. N., MA BT Bav, PhD	Reader
Tripathi, R. S., MA PhD Agra	Reader
Sharma, S. S., MA Agra, PhD BT	Lectr
Singh, V. P., MA Agra	Lectr.
Anand, P., MA Agra, PhD	Lectr
Lal, G., MA LT	Lectr.
Mohammed, N., MA	Lectr
Gupta, P. S., MA Agra	Lectr.
Shukla, V. N., MA LLB	Lectr.
Sharma, A. P., MA PhD Agra	Lectr.
Hammachandri, A., MA	Lectr.
Blusman, R. N. R., MA PhD	Lectr.
Bhatia, K. C., MA PhD	Lectr.
Sharma, Mrs. Bhagwati, MA	§Lectr.
Hayla, Miss Pushpa, MA	§Lectr.

**Statistics, see Maths and Stats.**

**Theology, see below****Urdu**

Suroor, A. A., MA	*Prof
Khan, M. H., DLitt Paris, MA PhD	
Ozair, M., MA PhD	(on leave) Reader
Islam, K., MA PhD	Temp Reader
Jalibi, M. A., MA	(on leave) Lectr
Hassan, M., MA PhD Luck	Lectr
Rahman, K., MA PhD	Lectr
Sultana, Miss S. Surriya, MA BT	
	(on leave) §Lectr
Saleem, Mrs. Mahmooda, MA	§Lectr
Qureshi, M. N., MA	Lectr
Zurki, M. A., MA	Lectr
Shakeel, G., MA	Temp. Lectr
Sattar, A. S., MA PhD	Temp. Lectr
Khan, N. A., MA Luck	Temp Lectr
Khurshid, Mrs. Sakina, MA	§Temp Lectr

**Zoology**

Khan, M. A. B., PhD McG. & Altg., DSc	*Prof.
Alam, S. M., MSc PhD Lond.	Reader
Qasim, Z., MSc Lond. & Altg., PhD Lond., PhD Wales	Reader
Aziz, S. A., DIC, MSc PhD Lond.	Lectr.
Farooqi, M. M., MSc	Lectr.
Khan, N. H., MSc PhD Masr.	(on leave) Lectr
Ahmed, M., MSc	Lectr.
Siddiqi, A. H., MSc PhD	(on leave) Lectr.
Adhami, O. M., MSc	(on leave) Lectr.
Siddiqi, W. A., MSc	(on leave) Lectr.
Hafeez, M., MSc	Lectr
Raz, Miss Nuzhat, MSc	§Lectr
Subramaniam, Miss Sharda, MSc	§Lectr
Bemerjo, Miss Sahita, MSc	§Lectr.
Farooqi, H. U., MSc	Temp Lectr
Agarwala, M. M., MSc	Temp Lectr

**MEDICINE**

Latif, H. A., Shifa-ul-Mulk Luck	*Prof.
<b>Ophthalmology</b>	
Shukla, B. R., BSc MB BS Luck.	*Prof.
Hameed, S., MB BS Luck, MD Patna	(Pathol.) Reader

Agarwala, K. C., MD	(Bacteriol.) Reader
Hamida, Mrs. Sudassani, MB MS Luck	Reader
DOMS Lond	
Dayal, Y., MB BS Luck, DOMS	Lectr
Fazal, A., MSc	Lectr
Suri, P. R., MD	(Med. G.) Lectr
Paul, S. O., MB BS	Lectr.
Mehra, K. S., MB MS Agra	Lectr.
Graver, A. D., MB MS	St. Res. Asst
Ahmad, E., MB BS DO	Ophthalmic Registrar

**Unani Tib and Surgery**

Latif, H. A., Shifa-ul-Mulk Luck	*Prof.
Ansari, I. H., MB BS Bow., BSc	Reader
Hasib, A., DIMS Luck, MSc	Reader
Kabiruddin, M.	Reader
Rahman, M. S., MB BS Bow.	Lectr.
Lal, S. B., MB BS	Lectr.
Hasan, H. N., A.	Lectr
Khan, M. Z.	Lectr.
Khan, H. Z. A.	Lectr.
Hussain, H. K., BUTS	Lectr.
Khan, H. S. R., BUMS	Lectr.
Siddiqi, A. M., MSc	(on leave) Lectr
Taryab, H. M., BUMS	Lectr
Ansari, F., BUTS	Lectr.
Siddiqi, M. W., MSc	Lectr
Ahmad, K., BIMS Luck.	Lectr.
Haq, W.	Science Teacher
Khan, N.	Science Teacher
Kidwai, H. S. M	Demr.
Jafri, A. H., BUMS	Demr.

**THEOLOGY**

<b>Shia Theology</b>	
Naqvi, M. A. N.	*Reader
Kamoonpun, M. H., PhD Al Ashar	
	(Nazam Theol.) Lectr
Abbas Sahib, M. S. A. Z	Teacher
Jafri, Miss Razia, MTh	§Teacher

**Sunni Theology**

Akbarabadi, M. S. A., MA	*Reader
Bulgrami, Q. M. A	(Nazam Theol.) Lectr
Hafteullah Sahib, M. M	Lectr.
Salm, M. A.	Lectr
Begum, Miss Raziya, MA	§Lectr.

**COLLEGE OF ENGINEERING AND TECHNOLOGY****Applied Science**

Siddiqi, O. A., MSc	Reader
Osmani, R. A., MSc	Lectr.
Naqvi, T. H., MSc PhD	Lectr.
Ahmad, N., MSc LLB	(Maths.) Lectr.
Singhal, J. P., MSc	(Sci.) Lectr
Cashyap, S. M., MSc	Lectr.
Naseem, T., MSc	Demr.
Ahmad, N., MSc	(on leave) Demr
† Drawing Teacher	

**Civil Engineering**

Chakko, K. C., DSc Lond., PhD,	
MIB(India)	*Prof
Ansari, M. Y., MASE Tex., BSc(Engg)	Reader
Bari, S. J., BSc(Engg)	Reader
Ahmad, S. N., PhD Lond	Reader
Bahauddin, K. M., MScTech Mase., BSc(Engg)	Reader
Salamman, K. M., BSc(Engg)	(on leave) Lectr.
Imamuddin, K., BSc(Engg)	(on leave) Lectr



**PROVOSTS** S S. Hall, Dr H. Rahman; V M. Hall, A. Salem; Aftab Hall, Prof. A. A. Suroor, Sulaiman Hall, Dr M. Shafi, Abdullah Hall, Mrs M. J. Haider, Non-resident Students Centre, Prof. H. L. Sharma

**PROCTOR** Prof. A. Bash Khan

**PRINCIPALS AND DIRECTORS OF INSTITUTES.** Women's Coll., Mrs. Mumtaz J. Haider; Tibbeya

Coll., Prof. H. A. Latif, Coll. of Engin. and Technol., Z. Ansari, Univ. Polytechnic, S. A. Abbas; Inst. of Islamic Studies, Prof. A. Aftam; Inst. of Ophthalmol., Dr B. R. Shukla

**MEDICAL OFFICER** Capt. H. Rahman

**ADVISER TO FOREIGN STUDENTS** Prof. A. A. Suroor

## GENERAL INFORMATION

Founded in 1877 by the late Sir Syed Ahmad Khan as the Mohammedan Anglo-Oriental Coll., with the object of imparting to the Muslim youth a modern scientific education, the univ. received its first charter in 1920. By the Act of 1951 the constitution of the univ. was amended to bring it into conformity with recommendations of the univ. commission and the constitution of the Indian republic. The univ., a teaching and residential instn., brings together students and scholars from different parts of the country with different religious, linguistic and cultural backgrounds.

The jurisdiction of the univ. extends over a radius of 15 miles from the univ.

**CONSTITUTION.** The main authorities of the univ. are the court, exec. council, academic council, facs. and depts. of studies. All teaching staff in depts. are members of the respective depts. of studies. On the fac. are represented all profs. in the fac. and 1 reader and 1 lectr. from each dept. of studies assigned to it, there are also sr. teachers and learned men from outside the univ. The academic council consists of all hds. of depts. of studies and a few other members. These bodies deal with the academic side of the univ. The exec. council, on which sr. members of the teaching staff are represented, deals with the exec. side. The court is a larger body containing reprs. of interests outside the univ. It meets once or twice a yr. and is the supreme governing body of the univ.

**LIBRARIES** Central lib.: 103,068 vols. Depel. librs.: philos., 1200 vols.; maths., geog., phys., chem., educn., 3000 each; Engl., econ., 200; Urdu, 2000 each; bot., 2500 p. hist., 1900; comms., 700; mult. sci., 100; Persian, 550; Arabic, 450; Sansk., 300; engin., 4000.

**FACULTIES AND DEPTNS.** Arts, Prof. M. Munasiddin (philos. & psychol.); comms., Prof. Q. H. Farooque, *ex officio*; Z. Ansari; law, Prof. H. Rahman, *med.*, Prof. H. A. Latif (Unani Tibb), *sur.*, Prof. S. M. T. Razvi (geog.); *theol.*, M. S. Akbarabadi

**MEDIUM OF INSTRUCTION.** English.

**PRE-UNIVERSITY COURSES** in arts, comm., sci. extend over 1 yr. after high sch. or matric. exam. of an Indian univ.

**FIRST DEGREE.** 3 yrs. after pre-univ. course—BA, BSc, BCom (With the introd'n. of the pre-

univ. & 3-yr. degree courses, the BA honrs. and BSc honrs. courses have been discontd.) 5 yrs. after pre-univ. course—BSc(Engg.) (civil, electn., mech.) 5 yrs. after high sch.—BUMS

**HIGHER DEGREES.** 1 yr. after BA, BSc, BCom—BLab 1 yr. after BEd—MED. 2 yrs. after approved 1st degree—MA, MSc, MCom, LLB, BTh 2 yrs. after approved master's degree—PhD by res. 2 yrs. after LLB—LL.M. 1 yr. after BTh—MTh. 5 yrs. after PhD—DLitt, DSc, LL.D., DTh

Women students are admitted to the same classes as men for MA and MSc in all subjects and for BEd and MED as well as to the pre-univ. and BA, BSc classes held in the Women's Coll.

**DIPLOMAS.** Stats. (1 yr. after pre-univ. course); engin. (civil, electn., mech.) (3 yrs. after high sch. course) Postgrad. 1 yr.—ophthalmol., bus. admin., stenotyping, draughtsmanship, appl. psychol., proficiency in Arabic, Persian, German, French, Russian, Turkish, Malayalam or Telugu, 2 yrs.—foreign affairs, theol.

**CERTIFICATES.** Library sci. (4 mos.), proficiency in Arabic, Persian, German, French, Russian, Turkish, Malayalam or Telugu (3 yrs.)

**PRIVATE CANDIDATES.** Only women and teachers may be permitted to appear as private candidates at the following exams: pre-univ., BA, BCom, BSc, MA, MCom, MSc (in maths, psychol. and geog. only), BTh, MTh and LLB (for women only)

**FEEs.** Tuition pre-univ. (mts, sci., comms.), Rs. 9 per month; BA, BSc, BTh, BEd, BCom, BLab or pre-med., Rs. 12 per month; MA, MSc, LLB, MTh or MCom, Rs. 15 per month; LL.M., Rs. 16 per month; MA, MSc or MCom & LL.M. (combined), Rs. 22 per month; PhD, Rs. 20 per month; BSc(Engg.) 1st & 2nd yrs. Rs. 225, 3rd & 4th yrs. Rs. 240 (each payable in 10 instalments); dipl. in engin., Rs. 10 per month; BUMS, dipl. in bus. admin. and stenotyping, dipl. or certn. of proficiency in a lang. other than S. Indian lang., Rs. 5 per month; dipl. in ophthalmol., Rs. 25 per month; dipl. in foreign affairs, Rs. 50 p. a.; cert. in lib. sci., Rs. 20 (single payment). No tuition fee in fac. of theol.

**EXAMS.** high sch., Rs. 20; pre-univ. Pt. I, Rs. 5, pre-univ. Pt. II, Rs. 30; BA, or BSc Pt. I (1 sub.), Rs. 4; BA Pt. I, or BSc Pt. I (more than 1 sub.), Rs. 7; BA, or BSc Pt. II, Rs. 40;

BCom (previous), Rs 20; BCom (final), MA (previous) or MSc (previous), Rs. 25; MA (final) or MSc (final), Rs. 35, LLB (previous), Rs 25, LLB (final), Rs 40, LLM, Rs 150, BEd, Rs 25, MEd, Rs 35; PhD on LLD, Rs 100, BSc(Egg) 1st & 2nd yrs Rs. 25, 3rd yr Rs 35; dipl in engin 1st yr, Rs 15, and yr Rs. 20, 3rd yr Rs 25, HUMS (Tibbia) I profess Rs 10, II profess. Rs. 15, III profess Rs 20, IV profess. Rs. 20; dipl. in ophthalmol., Rs 100, dipl in foreign affairs, Rs. 20, dipl in foreign affairs (proficiency test), Rs 10

ACADEMIC YEAR July-April, 3 terms. mid-July-beginning of Oct; mid-Oct-end Dec, early Jan.-end April

RESIDENCE: A feature of the univ. is its pre-

dominantly residential character. Hostels are grouped together into halls of residence each under a provost. Total residential accommodation, 5000 approx. There are 4 halls for men and 1 for women. Sir Syed Hall, Viqueerul Mulk Hall, Afrah Hall, Sulaiman Hall, Abdullah Hall (women only).

Non-resident students centre. 25 per cent. of the total no. of students are admitted as day scholars under the admin control of the provost of the centre. For provosts, see 'Admin and Other Staff', above

PUBLICATIONS. *Calendar* (quinquennial, free); *Prospectus* (annual); *Univ Magazine* (English and Urdu), *Muslim University Gazette*

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	4753	—
Women	375	—
Total	5128	—

Distribution by Faculties. Arts, 1135; *commerce*, 233, *engin.*, 1183; *law*, 536, *med.*, 174, *sci.*, 1678, *theol.*, 14, *women's coll.*, 375 Total 5128

Included in the figures above are —

Pri-University students, 391.

Postgraduate students, 743

Students from other countries, 67

DEGREES AWARDED (1961) Arts BA pass, 248, MA, 316, BLib, 29 *Comm.* BCom, 27, MCom, 25 *Educa.* BEd, 77, MEd, 13 *Engn.* BSc(Egg), 79 *Law* LLB, 96 *Med.* BUMS, 25. *Sci.* BSc pass, 150, BSc hona, 1, MSc, 106, DSc (chem), 2 *Theol.* BTh, 6, MTh, 2 PhD (all facs) 27

DIPLOMAS AWARDED (1961) Foreign affairs, 2; ophthalmol, 14, bus admin, 24



# UNIVERSITY OF ALLAHABAD\*

Founded 1887

Postal Address: Allahabad 2, Uttar Pradesh, India

Cables and Telegrams: University, Allahabad

Telephone: Allahabad 2219

CHANCELLOR—B. DAS

VICE-CHANCELLOR—B. PRASAD, DSc, FNI

TREASURER—K. L. MISRA, MA LLB

REGISTRAR—O. P. GUPTA, MSc LLB

PROCTOR—R. B. TIWARI, JSD Yale, BA LLM

LIBRARIAN—A. N. AGARWALA, MA BCom DLitt

## TEACHING STAFF

<b>Ancient History, Culture and Archaeology</b>		<b>Fine Arts</b>	
Sharma, G. R., MA	Prof.	Kochak, U. S., MSc	Asst. Prof., Hd.
7 Asst. Profs.		1 Asst. Prof., 8 Teachers	
<b>Arabic and Persian</b>		<b>French and German</b>	
Hassan, S., MA PhD Lond.	Prof.	Junius, M. M.	(German) Asst. Prof.
5 Asst. Profs.		Mitra, A. K., BA DUParis	Asst. Prof.
<b>Botany</b>		<b>Geography</b>	
Tandon, R. N., MSc PhD Lond.	Prof.	Khan, M. N., MA DPhil	Offg. Prof.
11 Asst. Profs.		5 Asst. Profs.	
<b>Chemistry</b>		<b>Hindi</b>	
Ghosh, S., DSc	Prof.	Varma, R. K., MA PhD	Prof.
21 Asst. Profs.		16 Asst. Profs.	
<b>Chinese</b>		<b>History, see also Anc. Hist.</b>	
Kuang, C. H., MA PhD Delhi	Asst. Prof.	Saksena, B. P., MA PhD Lond.	Prof.
		7 Asst. Profs.	
<b>Commerce</b>		<b>Home Science</b>	
Agarwala, A. N., MA BCom DLitt	Prof.	Vyas, K. D., BSc MB BS	Asst. Prof., Hd.
14 Asst. Profs.		2 Asst. Profs.	
<b>Economics</b>		<b>Law</b>	
Mehta, J. K., MA	Prof.	Tripathi, P. K., JSD Cal., LL.M.	Prof.
15 Asst. Profs.		Tiwari, R. B., JSD Yale, BA LL.M.	Offg. Prof.
<b>Education</b>		<b>Mathematics</b>	
Adeval, S. B., MA MEd DPhil	Asst. Prof., Hd.	Choudhary, R. N., MA Camb.	Offg. Prof.
7 Asst. Profs.		13 Asst. Profs.	
<b>English</b>		<b>Military Science</b>	
Mahrotra, K. K., MA BLitt Oxon.	Prof.	Khan, D. D., BA LLB	Asst. Prof., Hd.
26 Asst. Profs.		3 Asst. Profs.	

\* Member of the Association of Universities of the British Commonwealth

<b>Philosophy</b>		<b>Russian</b>	
Kaul, R. N., MA B.Litt Over 9 Asst. Profs	Prof	Sen-Gupta, S. C., MSc	Asst Prof
<b>Physics</b>		<b>Sanskrit</b>	
Singhvi, K. S., DSc 17 Asst. Profs.	Prof.	Chaturvedi, S. P., MA 9 Asst. Profs	Prof
<b>Physics, Applied</b>		<b>Urdu</b>	
Ghosh, S. N., DSc 3 Asst. Profs.	Prof	Hussain, E., MA 5 Asst. Profs	Prof.
<b>Political Science</b>		<b>Zoology</b>	
Lal, A. B., MA 12 Asst. Profs.	Prof.	Scrivastava, M. D. L., DSc 11 Asst. Profs.	Prof.
<b>Psychology</b>			
Sinha, D. N., MA MSc Camb 1 Asst. Prof	Prof.		

### ADMINISTRATIVE AND OTHER STAFF

Accounts Officer : A. S. Sinha, MSc	Asst	Supt. of Phys. Educn. : M. P. Verma, Sc. Med	
Registrar (Admin) : I. D. Caley, MSc	DPhil	Officer : R. Chandra, MB BS, Jr Med. Officers :	
L.T. (on leave) ; H. Williams, MA (offg.)	Asst.	A. M. Das, MB BS, L. Chandra, MB BS	Sec.,
Registrar (Accts) : K. P. Mohiley, MA B.T.		Student Advisory Cttee. : O. P. Bhattachar, MA	
Dean, Students' Welfare : P. Mohan, MSc			

### COLLEGES OF THE UNIVERSITY

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

ALLAHABAD, <i>Kayastha Pathshala University College</i> , BA. Principal—R. K. Saksena 11 Tutors.	(tel. : Allahabad 85112). BA. Principal—R. N. Gupta, MA. 11 Teachers.
ALLAHABAD, <i>Madan Mohan Malaviya College</i> (tel. : Allahabad 2832). BA. Hon Principal—R. N. Gupta. 11 Tutors.	ALLAHABAD, <i>Allahabad Agricultural Institute</i> , Naini (tel. : Allahabad 85220). BSc(Agr), BSc (AgrEngg), BSc(HomeEconomics) Principal—J. B. Chatterjee, PhD. 26 Teachers
ALLAHABAD, <i>William Holland University College</i> (American Presbyterian Mission) (tel. : Allahabad 2814). BA. Principal—C. M. Chatterji, MA PhD Penn. 7 Tutors.	ALLAHABAD, <i>Chandhary Mahadeo Prasad Degree College</i> (tel. : Allahabad 2845). BA, BSc. Actg Principal—J. P. Srivastava, MSc 34 Teachers

### ASSOCIATED COLLEGES OF THE UNIVERSITY

ALLAHABAD, *Agrawal Vidyalyaya Degree College*

ALLAHABAD, *Exotic Christian College* (tel. : Allahabad 85226) BA, BSc. Actg. Principal—S. S. Gidson, MA EdD Col. 31 Teachers.

### GENERAL INFORMATION

Founded in 1827, the univ. concerned itself mainly with exams, having no teaching staff (except that of its sch. of law) until 1914. Thereafter it establd. chairs and readerships, etc., for res. work in econ. and mod. hist fac grad. students. In 1922 an act was passed for the reorganization of the univ. as a unitary teaching and residential instn., with control, however, over the quality and character of the teaching in constituent colls. The Muir Central Coll. became the nucleus of a teaching univ., the jurisdiction of which was limited to a territorial area of 10 mls. radius from the convocation hall of the univ.

Within this area there are 7 instns. which supplement instrcn. given in the univ. The women's dept., which undertakes full matricn for the degree course, has now been transferred from the Crosthwaite Girls' Coll. to the univ. area. In 1955, by a further amendment to the univ. act, 2 categories of coll. came into existence, colls. of the univ. (which are residential colls. for students of the univ. or recog. by the univ. in which tutorial and supplementary instrcn. is provided) and associated colls. (which are also residential, but provide full degree courses as distinct from tutorial instrcn.).

The univ.'s jurisdiction is within 10 mls.' radius of Senate Hall. It serves a pop. of about half a million.

**CONSTITUTION.** The principal univ. authorities are the exec. and council, academic council, fac. bds. The vice-chancellor, a full-time officer, is the principal exec. and academic hd. of the univ. He is ex-officio chairman of the exec. council and academic council and in the absence of the chancellor he presides at meetings of the univ. court and convocation. The court is the supreme governing body. The exec. council is vested with the control of the univ. admin. The academic council is the supreme academic body. The function of the fac. bds. is to make recommendations to the academic council on academic matters.

**INCOME** (1960-61): Govt. grant (recurring and non-recurring), Rs. 3,313,491; fees, Rs. 1,081,845, other sources Rs. 603,977.

**LIBRARY.** 174,070 vols. Durbhanga reading hall. Deptl. libraries for use of teachers.

**LABORATORIES.** Phys., chem., bot., zool.

**MUSEUMS.** Econ. and comm. depts. Kaushambi museum (the univ. has undertaken excavations at Kaushambi, 40 mls. S.E. of Allahabad, and exploration of prehistoric sites in the Vindhya). A beginning has been made with a project for an art gallery.

**FACILITIES OF SPECIAL INSTITUTIONS.** Shiksha Dhar res. inst. conducts sp. res. in soil sci. J.K. inst. of appl. phys. provides res. facilities and 3-yr course for MSc(Tech).

**USUAL LANGUAGE OF INSTRUCTION** is English. Hindi has been introduced in some undergrad. classes.

**FACULTIES AND DEANS.** Arts, Prof. S. Hasan (Arabic & Persian); comm., Prof. J. K. Mehta (econ.); law, Prof. P. K. Tripathi, scs., Prof. S. Ghosh (chem.).

**ADMISSION.** To courses of study for bachelor's degrees: exam. of inter. standard, equivalent to exam. for overseas higher sch. cert. awarded by the Univ. of Cambridge local exams syndicate. Inter. exams. of other univs. incorporated by law in India and inter. exams. of Mysore Univ. or bd. of high sch. & inter. educa., Rajputana (incl. Ajmer-Merwara, Central India and Gwalior), are recog. for same purpose. Inter. exam. in agric. of Nagpur Univ. also recog. for admission to the BSc(Agr) class, and prelim. exam. of Mayo Coll., Ajmer, recog. as equivalent to inter. exam. of U.P. board. Grads. in agric. are eligible for admission to law classes.

Neither the univ. nor its colls. provide pre-univ. or inter. courses.

The BA and BSc degrees of Mysore Univ. or of any univ. in India recog. by the law of the place in which it is situated, are recog. for admission to courses leading to higher degrees.

**FIRST DEGREE.** 2 yrs.—BA, BA(HomeArts), BCom, BSc, BSc(HomeScience), and BSc(HomeEconomics) (women only), BSc(Agr), BSc(AgrEngg).

**HIGHER DEGREE.** 1 yr.—MEd; 2 yrs.—MA, MCom, MSc, LLB, LL.M (after LLB); 3 yrs.—MSc(Tech). Also DPhil (in arts and in sci.), DLitt, DLitt(Econ), DSc, LLD.

**HONORARY DEGREES.** DLitt, DSc, LLD.

**DIPLOMAS.** 1 yr.—local self-govt. admin. 2 yrs.—appl. arts & crafts, music, painting.

**CERTIFICATES.** 1 yr.—photography; soc. service & village uplift. 2 yrs.—Sansk., French, German, Russian, Chinese, Hindi.

**RESEARCH.** Facilities for res. in almost all depts. listed under 'Teaching Staff', above (see also 'Facilities of Sp. Instns', above). Apphns. for admission are considered by a res. degree comm.

**ACADEMIC YEAR.** July to April; 3 terms. Term dates (approx.): July 16 to Oct. 3, Oct. 9 to Dec. 23; Jan. 2 to April 30.

**STUDENT RESIDENCES.** Hostels under control of the univ.: Sir Pramada Charan Banerji Hostel (accomm. 168 students), warden—Y. Sahas, MA; Sir Sunder Lal Hostel (167), warden—D. N. Elhance, MCom; Dr. Amaranatha Jha Hostel (107), warden—Major R. K. Kaul, MSc, Sir Ganganatha Jha Hostel (172), warden—S. Prakash, DSc; Diamond Jubilee Hostel (140), warden—P. Mohan, MA; Sarojini Naidu (Women's) Hostel (166 women students), warden—Miss L. D. Pathak, MA.

Hostels and colls. recog. by the univ. (for principals of colls. and of Agric. Inst., see p. 493): William Holland Univ. Coll. (280 students); Kayastha Pathshala Univ. Coll. (279), Madan Mohan Malaviya Coll. (326), Mohammedan Boarding House (93), warden—Dr. M. H. Fauzi; Samarth Digambar Jain Hostel (55), warden—A. B. Saran; Ewing Christian Coll. (619); Chaudhury M.P. Degree Coll. (491); Jawahar Saran Univ. Hostel (44), warden—P. K. Kaul, BA LLB, Allahabad Agric. Inst., Naini (208); Agrawal Vidyalyaya Degree Coll. (153). Fees: single room, Rs. 10 p.m.; double, Rs. 88 p.m.; tuple, Rs. 7 p.m.

**WOMEN'S EDUCATION.** Women students reading for the BA degree are given, in the women's dept., lectures and tuition separate from men (19 women lectrs.). At present there are no such arrangements for postgrad. or sci. students. BA (HomeArts), BSc(HomeScience) and BSc(HomeEconomics) courses for women.

**UNIVERSITY MILITARY FORMATIONS.** Membership of the N.C.C. is compulsory for students offering military sci. as 1 of their subjs. in BA and BSc classes. Every male student of BA, BSc and BCom pt. I classes is required to join either N.C.C. or phys. trng. N.C.C. comprises 2 bns., 1 battery and 1 girls' division (optional).

**STUDENT ADVISORY COMMITTEE** supplies information to students intending to go abroad for higher studies.

**STUDENT HEALTH SERVICE.** Every student by the end of the first term immediately following his admission is medically examined by the univ. med. officers at the univ. dispensary. Med. exam. of girl students is made in the women's dispensary by a lady doctor. Dispensary has 1 full-time and a pt.-time doctors.

**STUDENTS' UNION.** All students of the univ. are members of the union (annual fee, Rs. 2),

which organizes social, cultural, literary and other extra-curricular activities.

**PUBLICATIONS.** (a) *Annual—Calendar*, Rs. 8, *Prospectus*, Rs. 3 8; *Univ. Minutes*, Rs. 5, *Univ. Studies*, Zool., Rs. 6 12, Sansk., Rs. 0 10 6, *Langs.*, Rs. 0 14 0, Arabic & Persian, Rs. 3 2 6, Econ., Rs. 1 12 0, Hist., Rs. 0 14 0, Engl., Rs. 0 13 0, Law, Rs. 0 10 6. *Annual Report*, free. (b) *Quarterly—Indian Journal of Economics*, Rs. 15 p.a. (c) *Univ. Magazine* (Engl. 3 issues, Hindi 1, Urdu 1), Rs. 2.8.

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	5387	—
Women	1046	—
Total	6633	—

Distribution by Faculties. Arts, 3827; comm., 866; Law, 639; Sci., 1301. Total, 6633

Included in the figures above are:—

Intermediate or Pre-University students, nil;

Postgraduate students, 1300

New admissions, 3803.

Students from other countries, 28. (Countries from which largest numbers came: Nepal, 10; Ceylon, 5)

**DEGREES AWARDED (1960-61).** BA pass, 1275; BA(Hons Arts), 2; MA, 645; MEd, 31; BCom, 133; MCom, 107; LLB, 277; LL.M., 1; BSc pass, 408; BSc(Agr), 73; BSc(AgrEngg), 20; BSc (HomeScience), 10; MSc, 176; MSc(Tech), 7; DPhil, 48; DLitt, 1; DSc, 1

# ANDHRA UNIVERSITY\*

Founded 1926

Postal Address: Waltair, Andhra Pradesh, South India

Cables and Telegrams: University, Waltair

Telephone: Waltair 324

CHANCELLOR—H E General S M SHRINAGISH

PRO-CHANCELLOR—S B. P. P. RAMA RAO, BA BL Hon DLitt

VICE-CHANCELLOR—A L. NARAYAN, MA DSc, FIP

PRINCIPAL OF THE UNIVERSITY COLLEGES—Professor S VENKATARAMAN, BA ML

REGISTRAR—K. V GOPALASWAMY, MA Oxon.

UNIVERSITY ORATORS—English, Professor K. R. SRINIVASA IYENGAR, MA DLitt; Telugu,

Hon. Legal Adviser—L. SUBBA RAO, BA BL Hon. DLitt

## TEACHING STAFF (see also p. 499)

(†=Part-Time)

### UNIVERSITY COLLEGE OF ARTS AND COMMERCE

#### Commerce

Das, K. K., BCom Lond., DCS Harv	Prof., Hd. of Dept.
Datta, H. K., MA(Com) Dacca	Reader
Gowri Sankar, L., MBA DipStats Harv., MA LLB	Reader
Servais, K. V., MBA Bradley, PhD Chic.	Reader
Rao, C. P., FCA	†Lectr
Rama Rao, K., BL	†Lectr
Reddi, G. S., Sahitya Ratna <i>Alid</i> (Hindi)	Pandit
Satyamurthy, J., MCom PhD	Lectr
Pureshobhama Rao, C., MCom	Lectr.
Umapaheswara Rao, C., MCom	Lectr.
Rama Krishna, C., MCom	Jr. Lectr.

#### Economics

Sarveswara Rao, B., MA PhD Lond.	Prof., Hd. of Dept.
.....	Reader
Ramana, D. V., BA PhD Chic.	Reader
Subrahmanya Sastri, K. V., BA	Reader
DPhil Oxon	Reader
Ramana, K. V., BA	Lectr.
Gopalakrishna Reddy, M., MA BL	Lectr.
Venkatarama Rao, S., BA	Lectr.
Sahasani, Mrs R., MA MSc (on leave)	Lectr.
Nageswara Rao, S., MA MSc	Lectr
Sangari Reddy, P. L., BA	Lectr.
Satyamurthy Rao, A., MSc	Lectr.
Prasada Rao, B., BA	Lectr.

Bhattacharyaswamy, P. A. V., MA MSc	Res. Officer
Jagadeeswara Rao, M., MA MSc	Econ Investigator
Chandrasekharan, S., MA	

#### English

Srinivasa Iyengar, K. R., MA DLitt	Prof., Hd. of Dept.
Muthuswamy, B., MA	Reader
Viewasandham, K., MA	Reader
Raghavacharyulu, D. V. K., MA PhD	Reader
Sen, Mrs. Ila, MA PhD	Lectr.
Indusakhara Sastri, M., MA PhD	Lectr.
Lakshminadevi, Mrs. Kurma, MA	Lectr.
Prabhakara Rao, P. P. C., MA	Lectr.
Ramesh Dutta, T., MA	Lectr.
Krishna Rao, N., MA	Lectr.
Krishna Sarma, S., MA	Lectr.
Ramachandra Rao, B., MA	Lectr.
Krishna Sastri, L. V. L. N. S. R., MA	Lectr.

#### French and German

Indu, Mrs. Dutt	†Lectr.
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#### History and Politics

Ramachandrab, O., MA PhD	Reader, Actg. Hd. of Dept.
Sambasiva Rao, K., BA	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Somashekhar Sarma, M.	Lectr.
Suryanarayana Murthy, E., BA	Lectr.
Venkateswarlu, K., BA	Lectr.
Ramachandrasekhara Rao, R. V., MA	
PhD	Lectr.
Narasimhamurti, A. V., MA	Lectr.
Srinivasamurti, V., BA	Lectr.
Prasanna Kumar, A., BA	Lectr.
Sundaram, K., MA	Res Asst

**Mathematics**

Meenakshi Sundaram, S., MA DSc	Prof., Hd. of Dept
Subrahmanyam, N. V., BA	Lectr.
Rameshbabu Rao, C., BA	(on leave) Lectr.
Chathambeswamy, J., BA	(on leave) Lectr.
Setyanarayana, U. V., BA	Lectr.
Gopalakrishna, J., BA	Lectr.
Rajawara Rao, K. V., BA	(on leave) Lectr.
Krishnaiah, P. V., BA	Lectr.
Suryanarayana, D., BA	Lectr.
Sivasankara Sastry, A., BA	Lectr.
Rama Koturi, D., BA	Lectr.

**Philosophy**

Satchidanandamurti, K., BA PhD	Prof., Actg. Hd. of Dept
Lakshmana Rao, A., BA	Lectr.
Perthaswamy Rao, D. N., BA	Lectr.
Krishnamurti, MA Shastri	Lectr.
Kishen, B. V., MA PhD	Lectr.
Narayanaswamy, J. S. R. L., MA	(on leave) Lectr.

Politics, see Hist. and Pol.

**Rural Development and Co-operation**

Subrahmanyam Naidu, MA	Prof., Hd. of Dept
Rama Rao, K. R., MA	Lectr.
Venugopal, N., MA	Lectr.

**Sanskrit**

Sivarama Sastry, N., MA	Reader, Hd. of Dept
Srinivasamurti, P., MA	Lectr.
Ramanupchari, K., Suomeni POL	Pandit

**Sociology and Social Work**

...	Reader
Ranga Rao, K.	Lectr.
Patrudu, B. V. S., BA	Lectr.
Zakia Rahimuddin, Miss B. A.	(on leave) Lectr.
Ramana, K. V., MA MSc	Lectr.

**Statistics**

Nagabhushanam, K., MA Phil (DPhil)	Prof., Hd. of Dept.
...	Reader
Avadhani, T. V., BA PhD	Reader
Ramaswamy, G. V., MSc	Lectr.
Ramachandramurti, P. V., MSc	(on leave) Lectr.
Damaradharana Rao, K., MSc	Lectr.
Bhagavan, C. S. K., MA MSc	Lectr.
Suryanarayana, K. V., MA MSc	Lectr.

**Telugu**

Somayya, G. J., MA LT Vidwan POL Modr.	Prof., Hd. of Dept.
Narasimham, K. V. R., MA PhD	Reader
Joga Rao, S. V., MA PhD	Lectr.
Srinivasamurti, K., MA	Lectr.
Donappa, T., BA	Lectr.
Sastri, D. V., Vidwan Modr.	Pandit
Madhanadan Shodangi, Vidya Praveen	Pandit

**Theatre Arts**

Gopalaswamy, K. V., MA Grad	Hon. Prof., Hd. of Dept.
Agasthya, K. L. E. E.	Tech Dir
1 Stage Dir., 1 Make-up Artist	

**JYOTIR VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY****Applied Physics**

Krishnaswami Chetti, S. T., DIC, MSc	Prof., Hd. of Dept.
Lond., MA	Lectr.
Yerrayya Pantulu, V., MSc	Lectr.
Kanewara Rao, T. V., MSc PhD	Lectr.
Setharamaswamy, P., MSc	Lectr.

**Chemistry**

Gopala Rao, G., DSc Alld	Prof., Hd. of Dept.
Raghava Rao, B. S. V., MSc PhD Lond.	Prof.
Ramachandra Rao, L., DSc	Reader
Venkateswarlu, V., PhD Lond., DSc, FRIC	Reader
Narasimha Sastry, M., DSc	Reader
Pandurang Rao, V., DSc	Reader

Suryanarayana, M., DSc	Lectr.
Venkateswara Rao, N., MSc	Lectr.
Somidevaranna, Mrs. G., DSc	Lectr.
Muralikrishna, U., MSc	Lectr.
Jagannadha Rao, K. V., MSc	Lectr.
Bhimsankara Rao, C., DSc	Lectr.
Seetharamaiah, S., MSc	(on leave) Lectr.
Srinivasam, K., MSc	Lectr.
Krishna Rao, P. V., MSc	Lectr.
Deepshikha, L. S. A., MSc	Lectr.

**Geophysics**

Rama Rao, B. S., DIC, PhD Lond., DSc	Prof., Hd. of Dept
Bhaskara Rao, V., MSc PhD	Reader

Jaisankarappa, B., MSc	Lectr
Bhama Sankaram, V. L. S., DSc	(on leave) Lectr
Jagannadhasarma, V. V., DSc	Lectr

**Meteorology and Oceanography**

Ramnadham, R., DIC, PhD Lond., MSc	Prof., Hd. of Dept
Subrahmanyam, V. P., DSc	Reader
Vasudhahai, V. V. R., DSc	Lectr.
Bakramurti, C., DSc	Lectr
Sankara Rao, M., DSc	(on leave) Lectr
Subba Rao, K., MSc	Lectr

**Pharmacy**

Rangaswamy, S., MA PhD	Prof., Hd. of Dept
Subba Rao, V., PhD Mase, DSc	Reader
Vivvanadham, N., DSc	Reader
Sambamurti, K., DSc	(on leave) Lectr
Venkata Rao, B., DSc	(on leave) Lectr
Narayanan, M. N., MPharm	Lectr

**Physics**

Raman, Sir C. V., MA PhD DSc LLD, FRS	Hon. Prof.
Rao, K. R., MA DSc Lond.	Prof., Hd. of Dept.
Ramaschandra Rao, B., DSc	Prof.
Tiruvenga Rao, P., DSc	Reader
Premaswarup, D., PhD Lond., DSc	Reader
Krishnamurti, B., DSc	Lectr.
Redhakrishnamurti, C., DSc	Lectr.
Shanthamma, Mrs. C., DSc	Lectr
Sri Rama Rao, M., DSc	Lectr.
Suryanarayana, V., DSc	Lectr.
Haranath, P. B. V., DSc	Lectr.
Subba Rao, K., DSc	Lectr.
Narasimha Rao, D. V. L., DSc	Lectr
Ramana, K. V. V., MSc	Lectr.
Abharani Reddy, C., MSc	Lectr.

**Physics, Mathematical**

Venkataramayadu, T., MA PhD	Prof., Hd. of Dept
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Rao, P. S., DSc PhD	Reader
Krishnamurti, T. S. G., MSc	Reader
Sangameswara Rao, D. R. K., MSc	Lectr.
Vedyanadhu, V., MSc	Lectr
Krishnakumari, Miss Y., MSc	Lectr
Sundararama Sarma, G., MSc	Lectr

**Physics, Nuclear**

Swami Jnanananda, MSc PhD, FIP	Prof., Hd. of Dept
Ramamurti, S., MSc PhD	Reader
Lakshminarayana, V., DSc	Reader
Venkata Reddy, K., MSc	Reader
Venugopala Rao, P., MSc	(on leave) Lectr
Lakshmana Sastri, D., MSc	Lectr
Rama Rao, J., MSc	Lectr
Narasimhamurti, K., MSc	Lectr
Narasimhamurti, V. A., MSc	Lectr

**Technology**

Venkata Rao, C., DIC, MSc PhD	Prof., Hd. of Dept
Dasa Rao, C. J., BSc(Ag) Madr., MSc(Tech)	Reader
Venkateswarlu, A., DSc	Lectr
Raghavacharya, M. V., DSc	Lectr.
Chidambaswara Rao, B. (Electr Engin)	Lectr
Venkatanatnam, A., MSc	Lectr.
Krishnamurti, V. V. G., DSc	Lectr.
Churavji, C., DSc	Lectr
Jayarama Rao, G., DSc	Lectr
Jagannadharaju, G. J. V., DSc DPhil	Lectr.
Dakshinamurti, P., DSc	Lectr.
Jagannatha Rao, R., DSc	(on leave) Lectr
Subrahmanyam, V., MSc	Lectr
Somasundara Rao, K., MSc	Lectr
Subba Rao, B. V., DSc	(on leave) Lectr.
Ramamurti, M., MSc	Lectr.
Krishnamurti, R., MSc	Lectr.
Sanyasi Reddy, M., MSc	Lectr.
Parbathalingeswara Rao, V., MSc ME	(Metall.) Lectr

**ERSKINE COLLEGE OF NATURAL SCIENCES****Botany**

Venkateswarlu, J., PhD Camb., DSc	Prof., Hd. of Dept.
Seshagiri, P. V. V., MSc	Reader
Venkata Rao, C., DSc	Reader
Sree Ramulu, T., MSc	Reader
Sundararaja Rao, B., MSc PhD	Lectr.
Sastri, R. L. N., DSc	Lectr.
Maheswari, Mrs. H., DSc	Lectr.
Ramakrishna Reddy, V., MSc	Lectr.
Bhadravemurti, P. V., MSc	(on leave) Lectr.
Srinivasa Rao, B. G., MSc	Lectr.
Narasinga Rao, M. B. V., BA BSc	Genetical Asst.

Raju, C. S. K., MSc	(on leave) Res. Asst.
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**Geology**

Narasinga Rao, A., MSc PhD	Reader
Srirama Das, A., MSc PhD	Reader
Poornachandra Rao, M., DSc	Reader
Aswathanarayana, U., DSc	Reader
Krishna Rao, J. S. R., DSc	Lectr.
Bhatnagar Rao, C., DSc	Lectr.
Sarma, B. B. G., DSc	(on leave) Lectr.
Vaidyanadhan, R., MSc	Lectr.
Sastri, A. V. R., MSc	(on leave) Lectr.
Subba Rao, M., DSc	(on leave) Lectr.
Kameswara Rao, K., MSc	Lectr

Ramamohana Rao, T, MSc	Lectr.	Nagabhisusharam, R, DSc	(on leave) Lectr
Kshenasagar, T. V. S. R, MSc	Jr Lectr	Narasimha Rao, M, V, MSc	Lectr
<b>Zoology</b>		Lalshama Rao, M, V, MSc	(on leave) Lectr
Ganapati, P. N, DSc	Prof, Hd of Dept	Bhavanarayana, P, V, MSc	Lectr
Rao, T. S. S., DSc	(on leave) Reader	Radhakrishna, Y., MSc	(on leave) Lectr.
Dutt, S., MSc PhD	Reader	Subrahmanyam, M, MSc	(on leave) Lectr
Hanumantha Rao, K., DSc	Reader	Shyama Sundari, Mrs K, MSc	Lectr
Narasimhanthi, C. C., DSc	(on leave) Lectr	Prasada Rao, D. G. V., MSc	Lectr

## UNIVERSITY COLLEGE OF LAW

Ramen, S. V, BA ML	Prof, Hd. of Dept.	Gupteswar, K., ML	Lectr.
Satyasayyanamurti, B, LLM JSD Yale	Reader	Rameshchandra Rao, A. S., BSc ML	Lectr
BA BL		Lakshmana Rao, V, BA BL	Lectr
Gopalakrishna Sastri, D, LLM Yale, BA ML	Lectr	Padmanabha Rao, B, BSc ML	Lectr
		Muty, K. S. N., LLM	Lectr

## UNIVERSITY COLLEGE OF ENGINEERING

<b>Engineering, Civil</b>		Srinivasarao, M., BE MSEE	Reader
Krishnamacharyulu, K., DIC, MSc Lond., BE	Prof.	Krishna Sastri, L. B, BTech MSEE	Reader
Koteswara Rao, K, BE	Reader	Ratnam, P. V., BE	(on leave) Lectr.
Dayanidhi, P., BE	Lectr	Ramamurti, V., BE	(on leave) Lectr
Rangaswathi Rao, R. P., BTech	(on leave) Lectr.	Krishnamurti, D., BE	Lectr
Shivaji Rao, T., BA BTech	Lectr	Radhakrishnamurti, V., BE	Lectr.
Rangaswaramma, V., BE	Lectr	Gowinda Rao, G., BE	Lectr
Venkata Rao, M. V., BSc BTech	Lectr.	Kameswara Sarna, C., BE	Lectr
Narayana Rao, D. V., BE	Lectr.	<b>Engineering, Mechanical</b>	
Jaganmohan Rao, V, BE	Jr Lectr.	Appa Rao, K. V., BE	Reader
Jasraj Rao, A., BSc BE	Jr Lectr.	Venugopala Rao, T., BE	(on leave) Reader
Sarma, D. V. S., BE	Jr Lectr	Subba Rao, V., BE	Lectr
Subba Rao, B., BE	Jr Lectr	Kameswaramma, P.	(on leave) Lectr
Sarma, K. N. N., BE	Jr Lectr	Narasimha Rao, N. L	Lectr
<b>Engineering, Electrical</b>		Manojanjan, K. P., BE	(on leave) Lectr.
Sitapathi Rao, D., DIC, BA MSc(Eng) Lond.	Reader, Hd. of Dept.	Basava Raju, J. C. V., BE	Lectr
		Mohammed Amir, A., BE	Lectr
		Lakshmanamurti, P., BE	Lectr
		Sankar Rao, R. N., BE	Lectr

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar: V. Simhadri Rao, MA. Asst. Registrar: G. V. S. L. Narasimham (Accts.), Y. Nona Rao, BCom (Exms.); G. Parthasarathy, BA (Legal). Dir., Phys. Educ.: K. Sudarshana Rao, BA. Dir. Phys. Educ.: Asst. Dir., Phys. Educ.: K. U. Narasimha Rao, H. Arjanaya Prasad (on leave). Hon. Architectural Con-

sultant: Br. D. Guni. Librarian: K. Ramakrishna Rao, MA MA(Lib) Chic. Engineer: K. V. Subba Rao. Officers-in-charge, U.G.C. Unit G V S. L. Narasimham, G. Parthasarathy, BA. Member-in-charge of Univ. Employment Bureau: Rao Sahib C. J. Dasu Rao, BSc Ag MSc. Special Officer, Univ. Press: B. Muthaswamy, BA.

## UNIVERSITY COLLEGES

(For Teaching Staff, see above)

Principal—Prof. S. Venkateswaram, BA ML

**WALFAIR, Erskine College of Natural Sciences**  
Provides BSc hon., post-hon., and res. courses in bot., zool. and geol. MSc in bot. and zool.

**WALFAIR, Jeyapore Vikrama Deo College of Science and Technology.** Provides BSc hon.,

post-hon., and res. courses in inathe., phys. and chem., MPharm; MSc courses in mathl. phys., nuclear phys., stats, chem. technol., ore-dressing, MScTech courses in appl. phys., geophys., meteorol. and appl. geol.; BPharm; BTech course in chem. engin. and dipl. in geog.



**WALTAIN, University College of Arts and Com-**  
munes. Provides honrs, post-honrs. and res.  
courses in maths, physio., hist., econ., politics,  
Telugu, Engl., comm., Sansk; MA courses in  
soc. work and rural development and anthropol.  
and MBA (business admin.), postgrad. dipl. in  
co-operation and rural development and dipl. in  
Hindi, dipl. and cert. courses in librarianship,

theatre arts, dipl. in acting.

**WALTAIN, University College of Engineering.**  
Provides instruct. for BE degree.

**WALTAIN, University College of Law.** Provides  
instruct. in FL and BL courses of study, and  
facilities for postgrad. courses in law for ML and  
DL.

## AFFILIATED COLLEGES

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for  
Pre-Univ., BA, etc.]

### Professional Colleges

**BAPATLA, Agricultural College.** BScAg Prin-  
cipal—B Appala Naidu, MA MSc PhD Kavar  
47 other Teachers.

**GUNTUR, Medical College.** Pre-Profess. med.  
course, MB BS. Principal—D. J. Reddy, MD,  
110 other Teachers.

**GUNTUR, St. Joseph's Training College for**  
Women. BEd. Principal—Rev. Sr. Anna Maria,  
MA MEd. 9 other Teachers.

**KARINADA, Engineering College.** BE Prin-  
cipal—..... 43 other Teachers.

**KARINADA, Rangaraya Medical College.** Pre-  
Profess. med. course, MB BS. Principal—B.  
Narayana, MB BS MSc PhD, FNI. 68 other  
Profes and Lectrs.

**RAJAHMUNDRY, Govt. Training College.** BEd,  
MEd. Principal—V Habibullah, MA LT. 17  
other Teachers.

**VISAKHAPATNAM, Andhra Medical College.** MB  
BS, MSc(Med), DSc(Med), MD, MS, DLO, DV,  
DO, DGO, DD, DA, DCH, TDD. Principal—  
P Narasimha Rao, MS, FACS. 134 other Lectrs.

### First Grade Colleges

**AMALAPURAM, Sree K.B.R. College.** Pre-Univ.,  
BA, BCom, BSc. Principal—G. P. Ramasam,  
BSc MA. 53 other Teachers.

**ANAKAPALLI, A.M.A.L. College.** Pre-Univ.,  
BA, BCom, BSc. Principal—R. Subbusha, BSc  
37 other Teachers.

**BHIMAVARAM, Bhimavaram College, West God-**  
avari. Pre-Univ., BA, BCom, BSc. Principal—  
E. Lakshminatha Rao, MA. 77 other Teachers.

**BOSCHIL, Rajah R.S.R.K. Ranga Rao College.**  
Principal—G. Subbi Reddy, MSc.

**CHIDALA, V.R.S. College.** Pre-Univ., BA,  
BCom, BSc. Principal—T. Rama Rao, MA PhD.  
57 other Teachers.

**ELURU, Sir C. Ramalinga Reddy College.**  
Pre-Univ., BA, BCom, BSc. Principal—D. S.  
Subrahmanyam, MA BEd. 72 other Teachers.

**ELURU, St. Theresa's College.** Pre-Univ., BA,  
BCom, BSc. Principal—A. F. Thyagaraju, MA  
LT. 18 other Teachers.

**GURUVADA, A.V.R. College.** Pre-Univ., BA,  
BCom, BSc. Principal—A. F. Thyagaraju, MA  
LT. 43 other Teachers.

**GUNTUR, Andhra Christian College.** Pre-Univ.,  
BA, BSc, BEd. Principal—J. B. Williams, MA  
PhD. 39 other Teachers.

**GUNTUR, Govt. College for Women.** Pre-Univ.,  
BA, BSc. Principal—Miss Sarada Bai Venkata-  
swamy, MSc Osm., DipEd. 49 other Teachers.

**GUNTUR, Hindu College.** Pre-Univ., BA,  
BCom, BSc. Principal—V. Subba Rao, MA. 99  
other Teachers.

**KAKINADA, Annamayi Satyavati Devi College**  
for Women. Principal—..

**KARINADA, Pathapur Rajah's Govt. College.**  
Pre-Univ., BA, BCom, BSc. Principal—P.  
Srinivasa, MA BEd. 105 other Teachers.

**MASULIPATNAM, Andhra Jateya Katsala.** Pre-  
Univ., BA, BCom, BSc. Principal—M. Siva-  
kumayya, MA BEd. 43 other Teachers.

**MASULIPATNAM, Hindu College.** Pre-Univ., BA,  
BCom, BSc. Principal—M. Gourinatha Sastri,  
MA DSc. 68 other Teachers.

**NARASARAOPET, S.S.N. College.** Pre-Univ.,  
BA, BCom, BSc. Principal—I. Ranganayakulu,  
MA LLB. 59 other Teachers.

**NARSAPUR, Narsapur College.** Pre-Univ., BA,  
BCom, BSc. Principal—V. S. Venkateswar,  
MSc. 41 other Teachers.

**NIDUBHOLI, P.B.N. College.** Pre-Univ., BA,  
BSc, BCom. Principal—G. V. Subbaramayya,  
MA. 25 other Teachers.

**ONGOLE, C.S.R. Sarma College.** Pre-Univ.,  
BA, BCom. Principal—G. F. Pappu, MA PhD  
LT. 38 other Teachers.

**RAJAHMUNDRY, Govt. Arts College.** Pre-Univ.,  
Pre-Profess. agric. course, BA, BCom, BSc.  
Principal—K. V. Panniah, MA BEd. 98 other  
Teachers.

**SRIRAJKULAM, Govt. Arts College.** Pre-Univ.,  
BA, BSc, BCom. Principal—K. Rajamannar,  
MA LT. 45 other Teachers.

TENALI, *V.S.R. College* Pre-Univ., BA, BCom, BSc. Principal—S. P. Ragland, MA LT 40 other Teachers

Vijayawada, *Andhra Loyola College* Pre-Univ., BA, BCom, BSc. Principal—Fr. D Gordon, MA. 93 other Teachers.

Vijayawada, *Mary Stella College* Principal—Rev Mother Mary Provincial, MA Calc

Vijayawada, *S.R.R. & C.V.R. Govt. College* Pre-Univ., BA, BCom, BSc. Principal—D V Krishniah, BCom 75 other Teachers

Vishakhapatnam, *Mrs A. V. N. College* Pre-Univ., Pre-Profess. med course, BA, BCom, BSc. Principal—C. Suryaprakasm, MA BEd, 57 other Teachers.

Vizianagaram, *Maharaja's College* Pre-Univ., BA, BCom, BSc, BEd. Principal—V Venkata Rao, MSc 73 other Teachers.

Vizianagaram, *Women's College* Principal—

Waltair, *St. Joseph's College for Women* Pre-Univ., BA, BSc. Principal—Sr. Maria Germaine, 17 other Teachers

### Oriental Colleges

[BP, POL, VP after the name of a coll. means that courses are provided there for Bhasha Praveena, cert. of proficiency in oriental learning, Vidya Praveena]

Akkiripalle, *Sri Mahadeva Sanskrit College* BP, VP. Principal—P. Venkateswara Sastri. 8 other Teachers.

Bhimavaram, *Oriental College*. BP, VP. Principal—D. Saiveeswara Sastri. 4 other Teachers

Eluru, *Smt. Appanna Venkataratnam Oriental College* BP. Principal—

Guntur, *D. K. V. K. Sanskrit College* BP, VP. Principal—C. Setyanarayana, MA BOL 4 other Teachers

Guntur, *Saradachetanam*. BP, DipinMusic Principal—Vidwan Mrs. M. Savithri Devi. 4 other Teachers.

Kovvur, *S.V.J.V. Sanskrit College*. BP, POL, VP. Principal—J. Purushothama, MA 6 other Teachers

Marulapattam, *Narasimha Sanskrit College*, Chittigudem. BP, VP. Principal—S. T. G. Varadachari, MA. 7 other Teachers.

Modakurthi, *Challapalli Rajasekari Sanskrit College* BP, VP. Principal—K. Somasekhara Sastri. 5 other Teachers.

Ponnur, *Sri Bhadracharya Swami Sanskrit College* BP, VP. Principal—P. Perayya Sastri 8 other Teachers.

Rajahmundry, *Andhra Women's Sanskrit College* BP, Principal—Mrs. B. Kankashamma. 6 other Teachers.

Rajahmundry, *S.G.V.P. Oriental College* BP, VP. Principal—K. A. Padmanabha Sastri. 7 other Teachers

Tenali, *Kota Lakshminaidu Sanskrit College* BP. Principal—S. Ramakoti Sastri 5 other Teachers.

Vijayawada, *Oriental College*. BP. Principal—V. V. R. Somayaji. 3 other Teachers.

Vijayawada, *Govt. Music College* Principal—M. Balamurughi Krishna

Vizianagaram, *Maharaja's Music College* DipinMusic Principal—D. Srinamamury 8 other Teachers

Vizianagaram, *Maharaja's Sanskrit College*. BP, VP. Principal—... 6 other Teachers.

### GENERAL INFORMATION

The act of the Madras legislative council constituting the Andhra Univ. 'in and for the Telugu districts of the presidency of Madras' came into force in 1926. By a later act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affluence jurisdiction of the Univ.: Srikakulam, Visakhapatnam, East Godavari, West Godavari, Krishna and Guntur. The act establishes 5 categories of colls.: 'univ. colls.', providing for pass and hon. or postgrad. courses for higher degrees; 'first grade colls.', providing courses for the ordinary degrees in arts or sci.; 'second grade colls.' (there are none at present), preparing for the pre-univ. exam.; 'professional colls.', providing courses in agric., engin., teaching, and for med. degrees, and 'oriental colls. (recognized)', providing courses for oriental titles.

CONSTITUTION The supreme governing body

is the senate. The vice-chancellor, a whole-time salaried officer and principal executive, is nominated by the chancellor for a period of 5 yrs. The other principal authorities of the Univ. are: an executive body called the syndicate comprising 15 members, incl. the vice-chancellor, financial sec. to the state govt and dir. of public instrcn. (Andhra Pradesh: Hyderabad Decan.); the academic council, the facs. and bds. of studies

INCOME (1960-61) Total, Rs. 6,294,490 (govt. grant, 18.1 per cent., exam. fees, 30.1 per cent.; tuition fees from univ. colls., 8.9 per cent.; pupils, 2.4 per cent., other fees, 40.5 per cent.)

FACULTIES Agric., arts, comm., engin., fine arts, law, med., oriental learning, sci., teaching

LIBRARY 98,971 vols

ADMISSION to pre-univ. course is by matric. exam. and secondary sch. leaving cert. exam. (the latter conducted by the Andhra govt.) or any other equivalent exam.

**PRE-UNIVERSITY COURSE.** Candidates who pass the matric. or S.S.L.C. exam. follow a 1-yr. course leading to the pre-univ. exam. On passing the pre-univ. exam. a student may be admitted to the 3-yr. pass or 4-yr. honours degree course, or to the integrated courses in engin. (BE), chem. engin. (BTech), pharm. (BPharm) or med. (MB BS) or to the 1-yr. pre-professional course leading to BScAg degree course.

**FIRST DEGREES (see also above)** 3 yrs after pre-univ.—BA, BCom, BSc, 4 yrs after pre-univ.—BA hon. (in econ., Engl., hist., maths, philos., pol., Sansk., Telugu), BCom hon., BSc hon. (in bot., chem., geol., maths, phys., zool.), 3 yrs after pre-professional—BScAg; 4 yrs after pre-univ.—BPharm, 5 yrs after pre-univ.—BE, BTech (in chem. engin.); 5½ yrs (plus 1 yr post-exam. trg.) after pre-univ.—MB BS.

**HIGHER DEGREES.** 1 yr.—BED, MA (after BA hon.); or 2 yrs after BA, MCom (after BCom hon., or 2 yrs after BCom), MSc (in chem. technol., mathl. phys., oil-dressing, phys. & nat. sci.) (after BSc hon.), MED (after BE), MCom hon. (after MCom); 2 yrs.—BL, MA hon. (after BA hon. or BA), MA (in soc. work, rural development or anthropol.), MBA (business admin.), MSc (2 yrs after MB BS and not less than 1 yr. after registration for res.), MSc (in statistics) (after BA hon. or BSc hon. in maths), MScTech (in appl. geol., appl. phys., geophys., meteorol.) and MSc (in nuclear phys.) (after BSc hon.), MScAg (after BScAg), MPharm (after BPharm), ML (after BL), DL (after ML), PhD (after MA or MSc or MCom or MB BS), 3 yrs

—DSc (after MSc or MB BS), 5 yrs' practice or 3 yrs' hosp. practice after MB BS, followed by 6 mos' lecture course—MD, MS. Also PhD (in arts, comen.), 2 or 3 yrs.

**HONORARY DEGREES.** DLitt, DSc, LL.D., Kala Prapurna (hon. doctorate in oriental learning).

**DIPLOMAS** 1 yr.—French, geog., German, Hindi, librarianship, and theatre arts and acting, 2 yrs.—music, 1 yr. after MB BS—postgrad. dipl. in med. and surg.—DA, DCH, DD (dermatol.), DGO, DLO, DO, DV, TDD, postgrad. dipl. in co-operation and rural devel.

**CERTIFICATES** POL (proficiency in oriental learning), 3 mos.—librarianship, 8 wks.—theatre arts.

**ORIENTAL TITLES** 4 yrs.—Vidya Pravara, Bhasha Pravara.

The Examinations of all statutory Indian univs. are recog. as equivalent to the corresponding exams. of the univ.

**ACADEMIC YEAR** July–March, 3 terms. Term dates (approx.). July 1 to Sept. 10, Oct. 3 to Dec. 23; Jan. 18 to March 31.

**MEDIUM OF INSTRUCTION** is English.

**RESIDENCE.** Every student of the univ. must reside in a hostel or under prescribed conditions. 9 univ. hostels for men—Sadharma Sadhana, Viveka Vinayasa, Vinaya Vihara, Asoka Vardhana, Harsha Vardhana, Siddhartha, Kirtanpudi, Pithapuram, new engin. hostels, 1 univ. hostel for women.

**PUBLICATIONS.** Univ. Code, vol. I (act and statutes) every 2 yrs., vol. II (regula., syllabuses, ordinances) every 3 yrs., *Annual Register* (univ. authorities, staff); *Annual Report*; *Minutes*; *Students' Handbook*.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1960-61 \*

	Univ. Colls.	Affiliated Colls.	Oriental Colls.
Men	2,426	21,898	231
Women	159	2,825	66
Total	2,585	24,723	297

Distribution by Faculties, etc. Agric., 491, arts, 14,011; comm., 1,774; engin., 1244, law, 231, med., 1084, oil-dressing, 3, oriental learning, 297; physics, 72, sci., 6918, teaching, 111, technical, 149. Total 27,605.

Included in the figures above are:—

Pre-University students, 9488

Pre-Professional students, 471

Postgraduate students, 349

New admissions, 16,159

Students from other countries, 25 (Countries from which largest numbers came—Fed. of Malaya, 8; Mauritius, 5).

**DEGREES AWARDED** (Dec. 1961). DSc, 11; PhD, 2; MA hon., 6; MSc (by res.), 2; DSc in pathol., 2; MSc in physiol., 2; MSc in biochem., 1; MScAg, 11, ML, 2; MD, 16; MS, 25; MB BS, 190; BE, 156; BL, 130; BScAg, 81; BE, 225; MSc, 147; BSc hon., 82; MPharm, 7; BPharm, 1; MA, 119; BA hon., 154; BA, 1786; MCom, 36; MBA, 21; BCom hon., 19; BCom, 363.

**ORIENTAL TITLES AWARDED** (Dec. 1961). Vidya Pravara, 7. Bhasha Pravara, 79.

**DIPLOMAS AWARDED** (Dec. 1961). DCH, 3; DGO, 17; DLO, 1; DO, 1, TDD, 1; co-operation & rural studies, 39.

\* All students are full-time

# ANNAMALAI UNIVERSITY\*

Founded 1928, incorporated 1929

*Postal Address* Annamalaiagar, Madras State, South India

*Cables and Telegrams* University, Annamalaiagar

*Trunk Telephone* CDM 49

CHANCELLOR—H E THIL GOVERNOR OF MADRAS

PRO-CHANCELLOR AND FOUNDER—RAJAH SIR M. A. MUTHIAN CHRISTIAN OF CHRISTIANAB, BA DLitt

VICE-CHANCELLOR—C. P. RAMASWAMI Aiyar, LL.D DLitt

REGISTRAR—T D MITTANICHANDRAM, BA BL

LIBRARIAN—R. NAGARAJAN, BA

## TEACHING STAFF

### Agriculture

Ramaswami, G., PhD *Rangas*, BSc(Ag)

Sembandam, C N, BSc(Ag)

Chandrasekaran, S., BSc(Ag)

Panduranga, S., BSc(Ag)

Lakshmanan, A. R., BSc(Ag)

Kalyanem, N. P., BSc

Rama Rao, R., MSc(Ag)

Narayana Prasad, N., MSc(Ag)

Alagappan, R. M., BSc(Ag)

Ramasubramanian, D. A.

Kalyanachandran, S., MSc(Ag)

Kalyanachandran, P., MSc(Ag)

Kalyanachandran, T. T., MSc

Chidambaraman, A., BSc(Ag)

Eswaran, K. S. S., BA BSc(Ag)

Balasubramanyam, M., BSc(Ag)

Balasubramanyam, A., BSc(Ag)

1. Demer

Biological Sin, Porto Novo

Seshaiya, R. V., MA

Jacob, J., MA PhD

Ramesubramanyam, K., MSc

Botany

Singh, T. C. N., DSc

Ramaswami Ayyangar, K., MSc PhD

Srinivasan, C., MSc

Ganesan, R., MSc

Gnanam, A., MSc BT *Mad.*

Raghavan, R., MSc

Periaswami, K., MSc PhD

Kannan, N., MSc

1. Demer

Chemistry

Ballab, V., MSc PhD *Ston.*

Ganapathy, K., MSc PhD

Balasubramanian, M., MA PhD

Gopalsubramanian, V., MA MSc

Tiruvengadachari, V., MSc

Natarajan, C., MA MSc

Ekambaram, A., MSc

Mangalamudayar, A., MSc

Rangarajan, T., MA MSc

Panayappan, R., BSc

Srinivasan, C., MSc

2. Demer

Commerce

Ramachandran, N., BA BL *Mad.*

Ramalingam, N., BA

Gopalsubramanian, K., BCom

Lakshminathan, A., MA BCom

Gonnappaiah, M. K., BA

Balharaswala, B., BA, FCA

Mani, P. L., MA(Com)

Vasudharan, B., BCom

Dravidian Philology

Shenmugam Pillai, M., MA MLitt

Ganeshaundaram, P. C., BSc PhD

Radhakrishnan, R., MA

Kudalappa Gowda, A., MA

Prabakar Walter, K. M.

Sulrahmanyan, P. S.

Shanmugam, S. V., BA

Sanderson Vaidyan, V., Vidwan

1. Demer

Economics

Sonachalam, K. S., MA

Ramaswamy, A., MA MLitt PhD

(on leave) Reader

Sabbah, A., MA

Reader

Reader

Lectr

Lectr

Lectr

Lectr

Lectr

Lectr

Lectr

Lectr

Lectr

Reader

Lectr

Lectr

Lectr

Lectr

Auditor

Lectr

Lectr

Reader

Reader

Lectr

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Lectr

Lectr

\* Member of the Association of Universities of the British Commonwealth

Bazzeel, G, MA PhD	Lectr.	Krishnaswami, A, MA LT PhD	Reader
Balakrishnan, M, MA	Lectr.	Srinivasan Raja, P K, MA <i>Yale</i>	
Madhavan, M R, BA	(on leave) Lectr.	MLitt	Reader
Subapathy, T, MA	Lectr.	Balasubramanyam, D, MA	Lectr.
Sivaprakasam, S, BA	Lectr.	Gopalakrishnan, T V, BA	Lectr.
Thirugiragan, K R, BA	Lectr.	Baskaran, S, BA	Lectr.
Senkatasamudram, R, MA	Lectr.	Thiruganasambadam, S, MA	Lectr.
Vinayakam, G, BA	Lectr.	Gowindaswamy, M S, MA	Lectr.
Subramanian, R K, BA	Lectr.		
Rangachari, A. V	Lectr., Res Asst	<b>Mathematics</b>	
<b>Education</b>		Ganapathi Ayyar, V, MA DSc	Prof
Ramanujachari, R, MA	Prof	Sankaranarayanan, G, MSc PhD	Reader
Ramachandran, J, MA LT MEd <i>Mad</i>	Lectr.	Ganesan, N, BA	Lectr.
Rajagopalan, S, MA BT	Lectr.	Padmanabhan, K S, MA	Lectr.
Srinivasa Rao, R, MSc Nag, BT <i>Mad</i>	Lectr.	Kannappan, P L, BSc	(on leave) Lectr.
Thangiah, Ravabellu, MA BT	Lectr.	Uma, K. R, BA	(on leave) Lectr.
<b>Engineering, see below</b>		Balskrishnan, R, BSc	Lectr.
<b>English</b>		Sekkappan, R, BSc	Lectr.
Duraiswami, M. S., MA	Prof	Sundararajan, D, BSc	Lectr.
Subashraman Ayyar, A C, MA	Addnl. Prof	Balskrishnan, P, BSc	Lectr.
Myketo, C R, MA	Reader	Meenakshi, Miss V. R, BSc	Lectr.
Sethuraman, V. S, MA PhD	Lectr.	Sudajumatha, C., MSc	Lectr.
Gopalakrishnan, G, MA	Lectr.	<b>Music</b>	
Sataraman, M. V., BA	Lectr.	Dandapani Desai, M. M.	Prof
Subramanian, S, BA	Lectr.	Gomathi Sankara Ayyar, V. S.	(Vina) Lectr.
Sachchidanandam, V, BA	Lectr.	Vajravelu Mudaliar, M. P	(Vocal) Lectr.
Sataramah, K. B, MA	Lectr.	Sivasubramania Pillai, T. N.	(Vocal) Lectr.
Ganapathy, R, MA	Lectr.	Gowri, Miss M. Gagananna Naidu	(Vina) Lectr.
Subramanian, N, BA	Lectr.	Rangachari, T. K	(Vocal) Lectr.
Jayaraman, J, MA	Tutor	Veeraswami, C V	(Mridangam) Lectr.
Vairavanathan, S, BA LT <i>Mod</i>	Tutor	Subramani Mudaliar, M	(Tevaram) Lectr.
Arunachalam Pillai, T. S., BA LT <i>Mod</i>	Tutor	Krishnamurthi Pillai, T. K.	(Violon) Lectr.
Singaravelu Mudaliar, V., BA LT <i>Mod</i>	Tutor	Sambandam Pillai, T. S.	(Violon) Lectr.
Muthukrishnan, S, BA LT <i>Mod</i>	Tutor	Venugopala Iyer, S.	Lectr.
Natesa Pillai, D., BA LT <i>Mod</i>	Tutor	<b>Painting</b>	
Daraswami, S, BA LT <i>Mod</i>	Tutor	Madhava Menon, K	Artist
Veluysa Mudaliar, C, BA BT	Tutor	<b>Philosophy</b>	
Balasubramanyam, K, BA LT <i>Mod</i>	Tutor	Adinayyan, S P, MA PhD <i>Leid</i>	Prof
Shastriyatham, T A, MA	Tutor	Jesudas, D I., MA MLitt	Reader
Paul, J E, BA LT <i>Mod</i>	Tutor	Ramalingam, C., MA	Lectr.
Naraswami, M, BA LT <i>Mod</i>	Tutor	Srinivasan, K, MA LLB	Lectr.
Ganesa Pillai, C	Tutor	Kolappa Pillai, R, MA	Lectr.
<b>French and German</b>		<b>Physical Education</b>	
Tomby, T P, BA	Reader	Shanmugasundaram, S., BA	Prof.
<b>Geology</b>		Aiyaru, C.	Lectr.
Muthuswami, T. N., MA	Prof	Subapathy, V, BSc MA <i>Im.</i>	Lectr.
Rajagopalan, N, MSc	(on leave) Lectr.	Venkataraman, E., BSc	Lectr.
Narasimha Rao, P., MSc	Lectr.	Kalyanasundarammal, Miss. Chinnaswami,	
Sataraman, M S, MA	Lectr.	BA	Lectr.
Granaselaran, R., BSc	Lectr.	Sethumadhava Rao, V. S, BSc	(on leave) Lectr.
Lourenathan, S I., BSc	Lectr.	Ramamathan, P R, BCom	Lectr.
Arunachalam, D., BSc	Lectr.	<b>Physics</b>	
Sethuraman, K, MSc	Lectr.	Venkataramulu, K, DSc, FIP	Prof.
<b>Hindi, see Urdu and Hindi</b>		Vijaynathan, R. K, MA	Reader
<b>History and Politics</b>		Raghavachari, I V. V, DSc	Reader
Sethumitha Aiyas, R, MA	Prof	Somasundaram, V, MA MSc	Reader
		Srinaman, S., MA MSc PhD	Reader

Vijaynagharan, R., MA MSc	Lectr.	Oozhan, Ulaga, Vidwan	Lectr.
Vietarasan, K., MA	Lectr.	Jayaraman, V., MOL	Lectr.
Viraganesambandan, P., MA PhD	Lectr.	Alagappan, A. R., BA	Lectr.
(on leave)	Lectr.	Shanmugham, S., BA	Lectr., Res Asst

Sweetanayana, S., MSc	Lectr.	<b>Tamil (Research)</b>	
Jagithesani, S., MSc	Lectr.	Subramania Pillai, G., MA BL Vidwan	Prof.
Rajamessiam, K., BSc	Lectr.	Vellaiyarasani, K., Vidwan	Reader
Krishna Pillai, M. G., MSc Ban	Lectr.	Ramanuja Aiyangar, T. K.	Lectr.
(on leave)	Lectr.	Govindaswami, M., BOL	Lectr.
Tiruvengadathan, S., MA MSc	Lectr.	Venkataraman Chettiar, S., Vidwan	Lectr.
4 Demis		Rameshachari, P. S., Saromani	Lectr.

<b>Sanskrit</b>		Venkatasa, C. BA	Lectr.
Venkatasa, C. S., MA PhD Suomani	Prof.	Jayaraman, N. V., BA	Lectr.
Subramanya Sastriar, V., Siromani	Lectr.	Srinivasakumar, N., Vidwan	Lectr., Res Asst
Srinivasachariar, K., Suomani	Lectr.		
Guruswami Sastriar, K., Suomani	Lectr.		

Seshadri Acharya, V. K., BOL MA Vidwan	Lectr.	<b>Urdu and Hindi</b>	
Suomani	Lectr.	Rasool, S. G., Adib-i-Fazil Praveena Madh	(Hindi) Lectr.
Natarajan, M., MA	Lectr.		

<b>Sociology</b>		<b>Zoology</b>	
Cornelius, Miss Mercy, MA Col, MSc	Prof.	Govindan, P., MA PhD MSc	Prof.
Edid Mithi, BA LT	Reader	Balasubramanyam, T. S., MSc	Lectr.
Srinivasamurthy, C. V., MA MED Madh	Reader	Sankaranarayanan, M. Perumalai, BSc	Lectr.
Gomathurayyan, V., MA	Lectr.	Srinivasan, K., BSc	Lectr.
Santhanam, P. V., MA	Lectr.	Swaminathan, S., BSc	Lectr.
Alagappan, M. V. M., MA	Lectr.	Annamalai, S., BSc	Lectr.
Kannikaran, V., MA	Lectr.	Muthukrishnan, V. R., BSc	Lectr.
1 Demis		Durairaj, G., BSc	Lectr.
		Sundarajan, S., MA BEd	Lectr.
		2 Demis	

<b>Statistics</b>		<b>ENGINEERING</b>	
Rangaswami Ayyar, K., MA MSc PhD	Prof.	<b>Civil Engineering</b>	
Nandagopal, V. R., MSc	Lectr.	Venkatesan, L., MSc Colorado, BE	Prof.
Nagaran, T. C. A. G., MSc	Lectr.	Alexandria, G., BSc BE MSc(Engg)	Reader
Kavuppan Chetty, V. R., BSc	Lectr.	Kannan, M., BE	Reader
Balachandran, V., BSc	Lectr.	Sethumayyan, R. M., DIC,	
3 Demis		MSc(Eng) Lond, BE	Reader

<b>Tamil Arts</b>		Suryanarayana, D., BE	Reader
Meenakshisundaram, T. P., MA BL MOL	Prof.	Kunthapathan, V., BSc BE	Reader
Ramaswami, A., MA LT Madh	Lectr.	Srinivasan, K., BE	Reader
Annamalai, M., MA	Lectr.	Valluappan, S. M., BE	(on leave) Reader
Ramesanathan, S. P., BA	Lectr.	Murugesan, K., BE MTech	(on leave) Lectr.
Vanthilingam, S., BA	Lectr.	Madhavan, K., BE	Lectr.
Tiruvavukarasu, S., BA	Lectr.	Achyuthan, K., BE	Lectr.
Dandapani Desai, S., Vidwan	Lectr.	Krishnaswami, M., BE	Lectr.
Arunachalam, P., Pallavar BOL	Lectr.	Jannan, J., BE	(on leave) Lectr.
Annamalai, E., BA	Lectr.	Valluappan, P. L., BE	Lectr.
Thinnappan, S. P., BA	Lectr.	Seetharaman, R., BE	Lectr.
Demodasan, G., MA	Lectr., Res Asst	Suryanarayana, N., BE	Lectr.
Ramalingam, N., Vidwan	Tutor	Gopalakrishnan, K. S., BE	Lectr.
Meyyappan, B. A.	Tutor	Rajagopalan, K. R., BE	Lectr.
		Ismail, G., BE	
		1 Draughtsman, 1 Lab Asst	

<b>Tamil (Oriental)</b>		<b>Electrical Engineering</b>	
Ramanathan Chettiar, L. P., Vidwan	Prof.	Balasundaram, V., MA	Reader
Arunachalam Pillai, M., Vidwan	Reader	Rajagopalan, T. R., MSc(Eng) S'cow	Reader
Somasundaram Pillai, V. M., Vidwan	Lectr.	MA	Reader
Chintamani, K. N., BOL MA BSc	Lectr.	Parthasarathy, G., MA	Reader
Muthaswami Pillai, M., Vidwan	Lectr.	Balachandran, T., BE	Reader
Rajagopalan, N., BSc MA BT	Lectr.		
Lakshmanaswami, K., BOL	Lectr.		
Natesan Mudaliar, A., Vidwan	Lectr.		

Agoram, G., BE  
 Annamalai, N., BE  
 Parthasarathi, K., BE  
 Chidambaram, C. T., BE  
 † Draughtsman, † Lab. Asst.

(on leave) Lectr.  
 (on leave) Lectr.  
 Lectr.  
 Lectr.

Kannappan, S., BE  
 Vaidyanathan, P. V., BE  
 Durairajan, P. W., BE  
 Sethakku, S., BE  
 Ayyaswami, R., BE  
 Nagarajan, R., BE

Reader  
 (on leave) Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### General

Rangachari, S., MA  
 Srinivasaraghavan, N., MSc  
 Jeyanjan, P. A., BSc  
 Govindarajan, M. S., BSc  
 Govindarajulu, T., MA  
 Alagar, V. S., MSc  
 Menon, C. B. K., MA  
 Sambasivam, S., MA MSc  
 Ponnuswami, S., BSc  
 Varadachari, R., MSc PhD  
 Tiruvengoda Natar, S., BA LT *Modr*  
 Rajamani, S. I., BA LT *Modr*  
 3 Demrs

(on leave) Lectr.  
 (on leave) Lectr.  
 Lectr.  
 Lectr.  
 (Maths) Lectr.  
 (Maths) Lectr.  
 (Engl.) Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Tutor  
 Tutor

### Mechanical Engineering

Paul, Lt.-Col. S., BE  
 Rajaram, C., BA BE  
 Muthuvareppan, V. R., BE  
 Saravanasubramani, V., BE

Prof., Hd. of Dept.  
 Prof.  
 (Workshop) Reader  
 Reader

### Technology

Lakshmanan, S., PhD *Lead*, MSc(Tech)  
 Adivarahan, P., BSc BSc(Tech) *Modr*  
 Alagaraswami, V., BSc BSc(Tech) *Modr*  
 Ramalingam, M., BE  
 Ramaswami, P. L., MA  
 Rangarajan, S., BE(Chem) MSc  
 Balasubramanian, V., MSc  
 Polunappan, T., BE  
 Natarajan, N. M., BE(Chem) MSc  
 Ramakrishnan, T., BE  
 Subbaraman, P., MSc  
 Rajamani, M. R., BE(Chem)  
 Arunachalam, V. R., BE(Chem)

Prof  
 Reader  
 Reader  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Vasudevali, N., MSc  
 4 Demrs.

(Ore Dressing) Lectr.  
 (Maths) Lectr.

## ADMINISTRATIVE AND OTHER STAFF

WARDENS OF HOSTELS Eastern, S. P. Adinarayan, MA PhD *Lead*; Western, Prof. C. Rajaram, BA BE

RESIDENT MEDICAL OFFICER D. A. D. Neth, DM&S *Calc*

## GENERAL INFORMATION

As the result of an offer by Rajah Ser S. R. M. Annamalai Chettiar of Chettinad to transfer to a residential teaching univ., if one were founded, the Sri Minkshi Coll. for higher instrum. in English, the Sri Minkshi Tamil Coll. and the Sri Minkshi Sanskrit Coll. which he had establd. and maintained, together with an endowment of Rs. 20 lacs, the govt. of Madras passed an act in 1928 accepting the offer and providing for the establd. of Annamalai Univ. Govt. also provided Rs. 27 lacs towards the endowment fund, a recurring grant of 1½ lacs a yr. and, subject to conditions agreed between govt. and the univ., a sum of 7½ lacs for bldg. and equipment. The annual recurring grant is now Rs. 709,000.

The univ. is a unitary teaching univ. with no affiliated colls. Its territorial jurisdiction does not extend beyond 10-mile radius from univ. convocation hall in Annamalinagar.

**CONSTITUTION** The authorities of the univ. are the senate, academic council, facs., bds. of studies, syndicate, finance ctns. and bd. of selection. The chancellor, pro-chancellor, vice-chancellor, senate, academic council and syndicate constitute the body corporate of the univ. The vice-chancellor, who is the principal executive

officer, holds office for 3 yrs., and is apptd. by the chancellor on nomination of the founder.

**LIBRARY** 142,658 vols.

**LABORATORIES.** Agric., bot., chem., engin. & technol., geol., phys., pool., with workshops and arrangements for practical work for all students.

**FACULTIES AND DEANS.** *Arts*, Prof. K. S. Sankaranarayanan, *educn.*, Prof. R. Ramaswamiachari; *engin. & technol.*, Prof. S. Paul (mech. engin.); *fine arts*, Prof. M. M. Dandapani; *Design* (music); *oriental studies*, Prof. L. P. Ramanathan Chettiar (Tamil); *sci.*, Prof. K. Rangaswami Ayyar (*stats.*).

**ADMISSION.** Holders of approved sch. leaving certs. may be admitted to a course of study in the univ. Exams. of all statutory Indian univs. are recog. for purposes of admission.

**PRE-UNIVERSITY COURSES** in arts and sci. extend over 1 yr. after secondary sch. or matric exam. of an Indian univ. or equivalent exam.

**FIRST DEGREE.** 3 yrs. after pre-univ. course—BA, BSc, BOL, BMus, BCom; 4 yrs. after pre-univ. course—BSc(Ag); 5 yrs. after pre-univ. course—BE, BE(Chem).

**HIGHER DEGREES.** 2 yrs postgrad.—MA, MSc in bot., chem., geol., phys., stats., zool., agric. engin., pub. health engin., struct. engin., MCom, MOL., BEd, MLitt, MSc(Ag), 2 yrs after approved master's degree—PhD, 1 yr. after PhD, or 2 yrs. after MLitt or MSc—DLitt, DSc

**HONORARY DEGREES** DLitt

**DIPLOMAS** Titles in oriental learning (Vedvann, Pulavai and Siromani) and oriental music (Sangita Bushana), 4 yrs.' course in each case. Dipls. in linguistics, teaching Tamil, teaching Sanskrit, 1 yr., dipl. in drawing & painting, 3 yrs., dipl. in elocution & drama, 2 yrs.

**CERTIFICATES** 1 yr.—French, German, Kannada, linguistics, Malayalam, Tamil music, Telugu

**RESEARCH** facilities available in all departments of arts, sci. and oriental studies leading to MLitt, MSc, PhD, DLitt or DSc. In departments of engin. and technol. res. may be undertaken for MSc

**FEES** Tuition, per term: pre-univ., Rs. 65, BA, BSc, BCom, Rs. 75, BA (hons.), BSc (hons.), BCom (hons.), Rs. 90, BMus, Rs. 45, BE, BE(Chem), Rs. 100, oriental titles, Rs. 15, dipl. and cert. courses, Rs. 20. In addn., there are deposit and lab. fees

**ACADEMIC YEAR** June to March 3 terms

Term dates (approx.): June 15 to Sept. 23, Oct. 9 to Dec. 21, Jan. 4 to March 31

**USUAL LANGUAGE OF INSTRUCTION** English

**TUTORIAL INSTRUCTION** and disciplinary supervision for all students are provided by assigning about 15 students to each member of staff.

**RESIDENCE** (For wardens see 'Admin. and Other Staff', above) Students are required to live in hostels attached to the univ. or in approved lodgings. Separate hostel with a lady warden for women students.

**HEALTH** A dispensary with an isolation ward is maintained for the benefit of students and staff. Phys. trg. is compulsory for all students, and weekly lectures on physical, health and hygiene are given for them.

**GENERAL COUNCIL OF ASSOCIATIONS.** Membership open to all students on payment of a fee.

**'OPEN' RESEARCH AWARDS.** Studentships tenable 2 yrs., value Rs. 500 p.m. Fellowship tenable in India or abroad, value Rs. 125 p.m.

**PUBLICATIONS.** *Calendar* (publd. periodically), Rs. 5½, (annual) *For Handbooks* (information about courses, syllabuses, regns.), *Annual Report* (April), *Univ. Journal* (annual), Rs. 7½; *Students' Handbook* (July), Rs. 1, *Students' Magazine* (March), Rs. 1½

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs.* completed: new engin. lab., phonetic lab., health centre, res. lab. for marine biol. sta.

**HONORARY DEGREES** DLitt—Dr. J. K. Galbraith, U.S. ambassador in India

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2968	45
Women	210	8
Total	3198	53

Distribution by Faculties: Arts, 848; Scienc.,

97; engin. & technol., 1071; fine arts, 117, oriental studies, 181, sci., 927. Total 3251.

Included in the figures above are —

Pre-University students, 377.

Postgraduate students, 369

New admissions, 1356

Students from other countries, 73.

**DEGREES AWARDED (1960-61).** MLitt, 3; MA, 146; MCom, 9; BA hons., 85; BCom hons., 30; BA, 71; BCom, 32; PhD, 7; MSc, 69; BSc hons., 34; BSc, 63; MOL., 3; BOL, 10; BE, 98; BE(Chem), 33; BEd, 36

**DIPLOMAS AWARDED (1960-61).** Teaching, 21; Titles in oriental learning: Pulavai, 27; Siromani, 2; Sangita Bushana, 10



# BANARAS HINDU UNIVERSITY\*

Founded 1916

Postal Address: Banaras 5, Uttar Pradesh, India

Cables and Telegrams: University, Banaras

Telephone: 4339

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

CHIEF RACTOR—H R THE GOVERNOR OF UTTAR PRADESH (*ex officio*)

CHANCELLOR—H H JAI CHAMRAJA WADKAR, Governor of Mysore

PRO-CHANCELLOR—H H. SHRI KARAN SINGH, Sader-e-Jiyyat, of Jammu and Kashmir

VICE-CHANCELLOR—Lt. Col. N. H. BHAGWATI, MA LLB

PRO-VICE-CHANCELLOR—M. C. BIJAWAT, BE BSc., BSc

TEASURER—J. B. GUPTA

REGISTRAR—Major S. L. DAB, MA LLB

LIBRARIAN—P. N. KAULA, MSc

DEANS—ARTS—V. S. AGRAWALA, MA PhD DLitt, LAW—Principal ANANDJI, LL.M. DCL, Yale;

MEDICINE AND SURGERY—Principal K. N. UDUPA, MSc Med, FRCS(Ed); MUSIC AND FINE ARTS—

B. R. DEODHAR, BA, ORIENTAL LEARNING—Pdt MADHUSUDAN SHASTRI; SCIENCE—N. L. SINGH,

DSc, TECHNOLOGY—Professor S. S. GAIROLA, BSc(Eng) MScCE Tennessee, MIE (India),

THEOLOGY—Pdt A. M. R. DIXSHIT

## ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S OFFICE: Dep Registrars (Acad.)

K. N. Lal, DSc, (Admin.) R. N. Vyas, Cont-

roller of Exams., U. V. Bhatt, PhD Shoff,

BSc(Med), Accounts Officer Ram Bahadur

Khari, BSc Sp. Officer, J. D. Samwal, Asst

Controller of Exams., V. L. Nigbolat, BSc

Asst Registrar (Admin.) S. Somaskandan, MA

Purchase Officer, P. C. Menon, BA Internal

Audit Officer N. S. Mathur

PUBLIC WORKS DEPT: Univ Engineer, M. L.

Singhal, Exec Engineer I B. Gupta, CE Roor.

Exec Engineer II, M. R. Komal

OFFICE OF DEAN OF STUDENTS: Dean of

Students, S. C. Das Gupta, MA, Dean of Students

(Kamachha) Principal D. N. Chakravarty, DSc

Dean of Students (Women's College), Miss

Palamneri C. Dhalma, DLitt

PUBLIC INFORMATION BUREAU: Information &

Pub. Relns. Officer, S. P. Tripathi, BA.

SH. WARDENS OR HOSTELS: Rupa & Bala U.

Prasad, MA PhD Brocha & C. P. Ramaswamy

Ayar, Y. S. R. K. Sharma, MSc PhD D.

Radhakrishnan, Bhagwan Das & I. N. Gaitu:

K. N. Nayak, LL.M. Moyni & Dhaniagga: D.

Bhattacharya Rajputna, Limdi & S. C. De

O. P. Mathur, King Edward, Annie Besant &

Hostel No. 1, D. N. Rao Women's Hostels,

Bishaka Mukherji, DPhil

PROCTOR'S OFFICE: Chief Proctor, R. S.

Choudhury, MSc PhD Cwa, DSc

MEDICAL DEPT: Chief Med. Officer: G. S.

Singh, MB BS, Med. Officers: R. M. Singh,

B. K. Prasad, MB BS

UNIV. PRESS: Manager Lakshmi Das

UNIV. ESTATE DEPT: Exec Officer, M.

Prasad, BA Dipl Local Self Govt Admin Adm

## CONSTITUENT COLLEGES OF THE UNIVERSITY§

[BA, BCom, etc., after the name of a coll. means that courses are provided there for BA, BCom, etc.]

BIHARI MAHAVIDYALAYA (COLLEGE OF IN-  
DOLOGY) (tel.: 4382). 20 Teachers. MA;  
PhD, DLitt; dipl. in Indian philol. & culture.

Hds. of Depts.: ANC. INDIAN HIST. CULTURE AND  
ARCHAEO.—A. K. Narain, MA PhD; ART AND  
ARCHIT.—V. S. Agrawala, MA PhD DLitt,

\* Member of the Association of the British Commonwealth

§ Postal Address, unless otherwise stated: Banaras Hindu University, Banaras 5, Uttar Pradesh, India

SANSKRIT AND PALI—..... INDO-SUMERIAN STUDIES. . . ; INDIAN PHILOS AND RELIGION—N. K. Devnaga, MA PhD.

CENTRAL HINDU COLLEGE (tel. 2878) 116 Teachers Pre-Univ (Arts); BA; BCom; MA, MCom, PhD; DLitt, dipla in German, French, Hindi, Chinese, class psychol, cert in stat method Hds. of Depts PHILOS.—J. L. Mehta, MA (Actg), HIST.—R. S. Tripathi, MA PhD Lond, ENGL.—N. M. Kulkarni, MA (Actg), POL.—K. L. Verma, MA; MATHS.—Brij Mohan, MA DSc, LCON.—A. S. Rathuri, MA DPhil Altd, PhD Ilave (Actg), HINDI.—J. P. Sharma, MA DLitt; GEOG.—R. L. Singh, MA PhD Lond; COMM.—S. K. R. Bhandari, MCom LLB PhD Luck; PERSIAN AND ARABIC—...; PSYCHOL.—M. M. Senha, MSc PhD

CENTRAL HINDU COLLEGE (KAMACHIA SECTION) (Postal Address: Kamachia, Banaras, India, tel. 3528) 66 Teachers Pre-Univ course in sci; pie-profess course in med, 1st yr of integrated course in agric and technol Principal—D. N. Chandra, DSc

COLLEGE OF AGRICULTURE (tel. 2838). 25 Teachers. BSc(Ag), MSc(Ag); PhD; DSc. Principal—R. S. Choudhury, MSc PhD Cern, DSc(Actg).

COLLEGE OF MEDICAL SCIENCES. 38 Teachers. MB BS Hds of Depts AYURVEDA—...; SURG.—Principal K. N. Udupa, MSc Med, FRCS(Ed)

COLLEGE OF MINING AND METALLURGY (tel. 2627). 36 Teachers. BSc(Min); BSc(Met); MSc(Min); MSc(Met), PhD; DSc Hds. of Depts \* METALL.—Principal D. Swarup, BSc (Met) PhD Allah; MINING.—Prof. M. P. Nataraja, BSc(Min) MSc(Geol) MEM Colorado, ScD M.I.T.

COLLEGE OF SCIENCE (tel. 2876) 112 Teachers BSc; MSc; PhD; DSc, dipla in spectroscopy. Hds. of Depts: CHEM.—G. B. Singh, MSc MA PhD Haro.; PHYS.—A. R. Verma, MSc PhD Lond; MATHS.—Brij Mohan, MA DSc; BOT—

R. D. Misra, DSc; ZOOL.—S. P. Roy Choudhary, MSc PhD, FN1, GEOG.—R. L. Singh, MA PhD Lond, SPACIOPHOTOGRAPHY—N. L. Singh, DSc

COLLEGE OF TECHNOLOGY (tel. 2949). 42 Teachers BSc(ChemEng), BSc (Sci Tech), BPharm, MPharm, MSc(Glass), MSc (Cer); PhD, DSc. Hds. of Depts \* CHEM ENGIN AND TECHNG.—S. P. Pathak, MSc PhD Law; PHARMACEUTICS—S. Prasad, PhD DSc(Actg); SILICATE TECHNOLOGY.—H. N. Das Gupta, DSc

ENGINEERING COLLEGE (tel. 2938). 31 Teachers BSc(Eng) in electr., mech., civil & municipal engin and design, MSc(Eng) in electr. mech., PhD; DSc. Hds. of Depts ELECTRIC ENGIN—Principal M. Sen Gupta, BSc Calc, & Glas, CPE Glas; MECH ENGIN.—C. C. Chakravarty, BSc(Eng), MIE(India), CIVIL AND MUNICIPAL ENGIN—Prof. S. S. Gauria, BSc(Eng) MSinCE Tennessee, MIE(India)

KALA SANGHIA BHARATI (COLLEGE OF MUSIC AND FINE ARTS) 19 Teachers. Adm. cert. in music, dipla in music, BMus; MMus; DMus, dipla (jr and sr.) in painting and sculpture Principal—B. R. Doodhar, BA

LAW COLLEGE 12 Teachers LLB; LL.M. Principal—Anandji, LL.M DCL Yale.

SANSKRIT MAHAVIDYALAYA (COLLEGE OF ORIENTAL LEARNING AND THEOLOGY). 39 Teachers Madhyama; Shastris, Karma Kand Shastris; Acharya; Chakravarty; Vachaspati; dipla in Purohitya Ratna. Principal—Pdt Vishwanath Shastri. Hds. of Depts \* VYAKARANA—Pdt. Sita Ram Shastri, DARSHAN—Pdt H. B. Shastri; INEOL.—Pdt R. N. Daksht, MEMANA AND DHARMA SHASTRA—Pdt V. Shastri; SARITVA—Pdt Madhusudan Shastri

TEACHERS' TRAINING COLLEGE (tel. 2984) 18 Teachers BED; MED; PhD; DLitt Principal—P. N. Rozdon, BA PhD Edw

WOMEN'S COLLEGE (tel. 2866) 64 Teachers Pre-univ. (arts and sci); BA, BSc. Principal—Miss Palamandri C. Dhanus, MA LT DLitt.

## AFFILIATED LOCAL COLLEGES

(Postal Address: Banaras, Uttar Pradesh, India)

ARYA MAHILA DEGREE COLLEGE. BA Principal—S. B. Pat, MA BT. 13 Teachers.

D. A. V. COLLEGE (tel. 4058). Pre-univ course in arts, BA; BCom. Principal—Krishnanand, MA 24 Teachers.

RAJAHAT BHARAT SCHOOL. (tel. 2717). Pre-

univ. courses in arts and sci Principal—A. M. Chak, MSc PhD. 12 Teachers

VARANASI COLLEGE FOR WOMEN (tel. 2356) Pre-univ course in arts; BA. Principal—Miss Subhadr Telang, MA. 13 Teachers.

VARANASI KANTA MAHAVIDYALAYA. BA. Principal—Leela Sharma, MA 13 Teachers.

## GENERAL INFORMATION

The univ. is open to persons of either sex and of any race, creed, caste or class. It was incorporated in 1915, the Central Hindu Coll, fully

equipped, already existed, and the college of the univ. began in 1916. The univ. has since been removed to a magnificent site of 1300 acres.

The objects of the univ., which is teaching and residential, are to promote the study of the Hindu Shastras and of Sanskrit lit. generally as a means of preserving and popularizing the best thought and culture of the Hindus, to promote learning and tes in arts and sci. in all branches, and to advance professional knowledge, as is best calculated to help in promoting indigenous industries and in developing the material resources of the country.

The univ. has power to found and maintain colls and other instns (incl. high schs.) within a radius of 15 miles from the main univ. temple.

**CONSTITUTION.** The const. advisory body of the univ. includes ex-officio members, persons nominated by the visitor, members of parliament nominated by the speaker of the House of the People and by the chairman of the council of states, and men of standing in public life nominated by the visitor. The academic council, the supreme academic body, includes the vice-chancellor, pro-vice-chancellor, principals of colls. and hds. of teaching depts., 4 profs. who are not hds. of teaching depts., 4 deans of facs, chief proctor, librarian, 4 teachers of the univ. elected from among themselves, and 6 persons, not employees of the univ., co-opted by the academic council. The executive council and the standing ottee. of the academic council are the executive bodies of the univ. and the academic council respectively.

**INCOME.** Rs. 15,630,148 (govt grants, Rs. 5,981,545; fees, Rs. 1,345,753; endowments, Rs. 63,612; scholrs, Rs. 646,300; other sources, Rs. 7,092,938).

**LIBRARY.** 410,000 vols., housed in the Sayaji Rao Gaikwad library

**LABORATORIES, ETC.** Chem., phys., bot., zool., geol., geog., graphys., spectroscopy, stats., psychol., agric., silicate technol., pharmaceuticals, mining, metall., glass, ceramics, chem. engin., radio-communication, electr., mech., civil and municipal engin. An automobile repair-shop and a power-house are also attached to the Engineering Coll.

An extensive bot. garden, an Ayurvedic garden and agric. farms are maintained for the study of plants, herbs and crops.

**ADMISSION.** Candidates who have passed the admission exam. or an equivalent exam. are admitted to pre-univ. courses in arts and sci.

For admission to pt. I of the 3-yr. BA and BCom courses, candidates must have passed pre-univ. exam. in arts/sci. of this univ. or equivalent exams.; for admission to pt. I of the 3-yr. BSc course, candidates must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; pt. II of BA, BCom and BSc courses is open to candidates who have passed pt. I BA, BCom and BSc or IA, ICom and ISc exams. of this univ. or equivalent exams.; for admission to courses of MA, MCom and MSc, candidates must have passed BA, BCom and BSc exams. of this or other

recog. univs., for admission to LLB and BED, min. qualifs. are BA, BSc and BCom; no candidate can be admitted to courses of LLM and MED unless he has passed LLB and BED exams. Admission to 1st yr. of integrated courses in technol. and bachelor degrees in engin., mining, metall., pharm. is open to candidates who have passed pre-univ. exams. in sci. of this univ. or equivalent exams.; for admission to 2nd yr. of integrated courses in technol., min. qualifs. are 1st-yr. exam. of 5-yr. integrated course in technol. or pre-engin. or pre-profess. exams in technol. or engin. or ISc or BSc pt. I of 3-yr. degree course or equivalent exams.; for admission to postgrad. courses in engin., mining, metall., pharm., min. qualifs. are BSc(Engin.), BSc(Min), BSc(Met), BPharm of this or other recog. univs. Candidates seeking admission to pt. I of integrated courses in agric. must have passed pre-univ. exams. in sci. of this univ. or equivalent exams.; pt. II exam. in agric. open to candidates who have passed ISc of this univ. or equivalent exams. and have studied subjs. prescribed for pt. II exam. for at least 1 yr. at this univ., open also to those who have passed pt. I exam. of integrated courses in agric.; MSc (Ag) open to candidates who have obtained BSc(Ag) of this univ. or equivalent. For admission to pre-profess. course in med., candidates must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; for admission to course leading to MB BS, min. qualifs. are ISc or pre-profess. (med.) exams of this univ. or equivalent exams. Admission to courses of Sansk. studies in the facs. of oriental learning and theol. is restricted to Hindus; candidates who have passed the Praveshika in Sansk. or an equivalent exam. are admitted to the course of Madhyama Pariksha; for higher degrees in Sansk., students are required to pass successive exams. of Sansk., learning Madhyama, Shastri, Acharya and Chakravarty. Min. qualif. for admission to course for cert. in music is metric. or equivalent and/or aptitude for music; for admission to courses of dipl. in music, BMus, MMus, DMus, in the fac. of music and fine arts, min. qualifs. are cert. in music, dipl. in music, BMus, MMus, respectively or equivalent qualifs.

**FIRST DEGREE.** 1 yr.—pre-univ. courses in arts and sci., pre-profess. course in med.; 2 yrs after inter or 3 yrs. after pre-univ.—BA, BSc, BCom; 2 yrs—BMus; 4 yrs.—BSc(Ag), BPharm; 5 yrs—BSc(Min), BSc(Met), BSc (Sci/Tech), BSc(Chem/Engin.), BSc(Eng), ABMS, 6 yrs.—MB BS

**ORIENTAL TITLES.** *Oriental learning:* Shastriacharya, Shastri, Madhyama, 3 yrs.; Chakravarty, Vachaspati *Theology:* Vedacharya, Ved Shastri, Karma Kand Shastri, Madhyama, Purohitaya Ratna, 3 yrs.; Chakravarty, Vachaspati.

**HIGHER DEGREE.** 1 yr.—1st-yr. integrated course in tech., pt. I of integrated course in agric., BED, MED (after BED), MSc(Cer), MSc(Glass), LLM (after LLB); 1½ yrs.—MSc(Eng) in electr. machine des; 1½ yrs.—MPharm, MSc(Min),

MSc(Met), 2 yrs.—LLB, MA, MSc, MSc(Ag), MCom, MMus, DMus, PhD, DLitt, DSc  
HONORARY DEGREES. DLitt, DSc

DIPLOMA. Purohitya Ratna, 3 yrs.; mod European lang., music, painting, sculpture, Chinese, Indian philos. & culture, 2 yrs.; clin psychol., library sci., spectroscopy, Hindi, 1 yr

CERTIFICATES (Usually 1-yr. course) Music, statistical methods, Bengali, Tamil, Telugu, Gujarati

FEES. For dipl courses (p a) : Hindi, Rs 10; German, French, Chinese, Rs 20; painting, sculpture, Rs 72; clin. psychol., Rs. 80; spectroscopy, Rs. 60. For cert courses: Bengali, Tamil, Telugu and Gujarati, Rs. 10; statistical methods, Rs. 20.

FEES (p a) for pre-univ arts and sci, Rs 80 each; BA, BSc and BCom (pts. I, II and III), Rs 120 each; MA and MCom, Rs 140; MSc, Rs 145; res, Rs 125; 1st-yr integrated course in tech., Rs 120; pt. II of integrated course in engin., Rs 230; 3rd, 4th and 5th yrs. of integrated courses in electr., mech. and civil engin., Rs. 230 each; MSc(Engl), Rs 260 for both yrs; pts II and III of integrated course in mining and metall., Rs 230 each; pts IV and V of integrated course in mining and metall., Rs 240 each; MSc in mining and metall., Rs 260 for both yrs; law (previous), Rs. 120; law (final), Rs 120; LL.M., Rs. 150; pre-professional course in tech., Rs 230; pts I and II of integrated course in chem., Rs 230 each; 3rd, 4th and 5th yrs integrated courses in pharm., Rs 230 each; pre-professional course in med., Rs 120; MB BS, pts I, II and III, Rs. 200 each; pt I of integrated course in agric., Rs 120; pts II, III and IV of integrated course in agric., Rs 180; MSc(Ag) (previous), Rs 220; MSc(Ag) (final), Rs 200; MSc (glass, ceramics), Rs 200; MPharm, Rs. 260 for both yrs.; BEd, Rs. 150; MEd, Rs 200; Adm. cert. in musio, Rs 24; dipl. in musio, Rs. 64; BMus, Rs 96; MMus, Rs. 120; fine arts section, Rs 72; library dipl., Rs 90.

In the Sanskrit Mahavidyalaya no hostel or coll. fee is charged.

ACADEMIC YEAR. July to April: 3 terms.

Term dates (approx.) July 10 to Oct 14, Nov. 13 to Dec. 31, Jan 3 to April 30

USUAL LANGUAGES OF INSTRUCTION. Hindi and Engl., in some classes, Engl only; in oriental studies, Hindi and Sansk.

RESIDENCE AND COST OF LIVING. Each student must reside in a univ hostel, or, if he is a student of a constituent coll., in a coll hostel, unless allowed by the vice-chancellor or the pro-vice-chancellor to reside with his parents or guardians under prescribed conditions. Most students live in hostels under the supervision of the senior wardens and warden. There are 14 hostels on the univ grounds, accommodating over 3000 students, and 3 more in the city, accommodating nearly 350 students, all under the management of a warden, sr. wardens and the dean of students. These are qualified med. officers. The cost of living, incl. tuition fees, varies from Rs 70 to Rs 125 per month, according to fee. Students of the Coll. of Oriental Learning and Theol are charged no fees for lodging, light and service.

INTERNATIONAL HOUSE. Bangalore for foreign students. Warden: R S Choudhuri, MSc PhD Com, DSc

INFORMATION BUREAU. Assists students from India and abroad with information about admission to the constituent colls and hostels of the univ, and about educat. facilities available in the univ.

ATHLETIC ACTIVITIES. The univ. athletic assocn organizes univ. games and sports. Inter-coll games and univ. sports are arranged every yr. Individual colls through their athletic assocns provide facilities for all outdoor games, and hostels organize all indoor games. P.T. compulsory for pt. I of 3-yr BA, BSc and BCom courses.

MILITARY TRAINING. N.C.C. trg has been made compulsory for all new entrants.

PUBLICATIONS. *Perspectives* (annual) of exams in the various facs; *Annual Report*, *Scientific Res. Journal* (quarterly), *Univ. Magazine* (quarterly), *BHU Gazette* (weekly), *Calendar* (the latest is dated 1958).

## THE YEAR 1961

PRINCIPAL DISAPPROPRIATIONS. Prime minister of Jammu & Kashmir, Rs 50,000 for extension and improvements to Malaviya Mandir, Rs 50,000 for construction of a 'Kashmir House' and Rs. 5000 for promotion of res in Sanskrit.

MAJOR BUILDING DEVELOPMENTS. *Bldg. completed*: geophys bldg; bldg for dept of geol., non-resident students' club, shed for storing spare furniture, stadium in sci coll; *under track* for teachers' trg coll; common room & cafeteria for women's coll; 20-bed ward in S S hosp.

NEW DEPARTMENTS AND CHAIRS. Depts. of geophys., Indian lang., foreign lang.; chair of compar religion & social.

RETIREMENTS. Prof. C. N. Menon (Engl.); Prof B M Singh (mech engin.); Dr D N. Chakravarty (principal, Central Hindu Coll., Kanchi), K C Banerjee (chem.); K N Gupta (bot.), H Ukil (painting), Jangir Singh (educn), K. D Gupta (technol)

DEATHS. Mahendra Shri George Jivaji to Sci mdia of Gwalior (former chancellors), Dr N K

Sodhanta (member of B.H.U. court); Dr. S. Barin Singh (former chief med. officer), H. H. Maharaja Hari Singh of Jammu & Kashmir (former chancellor), Dr. S. K. Maitra (hon. prof. of physics)

HONORARY DEGREES. *DLitt*—Shri B. Narain Singh, Maharaja of Banaras, Shri U. Nu., prime minister, union of Burma

#### Statistics

##### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	6422	—
Women	1111	—
Total	7532	—

Distribution by Faculties *Arts*, 2961; *law*, 361; *med. & surg.*, 244; *music & fine arts*, 278; *oriental learning & theol.*, 240; *sci.*, 1297; *technol.*, 2151. Total, 7532

Included in the figures above are —

Pre-University or intermediate students, 528

Postgraduate students, 1216

New admissions, 3576

Students from other countries, 55 (Country from which largest number came, Nepal, 37)

DEGREES AWARDED (1960-61). BA, 1176; MA, 946; BEd, 105; MEd, 10; BSc, 307; MSc, 126; BCom, 226; MCom, 25; BSc(Chem. Engin), 40; BPharm, 11; MPharm, 10; MSc (Cer), 5; BSc(Ag), 60; MSc(Ag), 36; BSc(Min), 34; BSc(Met), 39; BSc(electr. engin), 107; BSc(mech. engin), 171; BSc(civil & municipal engin), 116; ABMS, 53; LLB, 98; LLM, 1; BMus, 4; MMus, 3; PhD, 36

ORIENTAL TITLES AWARDED (1960-61). Shastri, 13; Acharya, 11

DIPLOMAS AWARDED (1960-61) Panchshiksha Ratna, 1; spectroscopy, 4; library sci., 36; music (jr.), 1; music (sr.), 14; sculpture (jr.), 2; painting (jr.), 5; Chinese, 1; French, 5; German, 36; Hindi, 4

CERTIFICATES AWARDED (1960-61) Music, 18; statistical method, 9

# MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA\*

Founded 1949

Postal Address : Baroda 2, Gujarat State, India

Cables and Telegrams : University, Baroda

Telephones : Registrar, 4721, General, 4238, 4442

CHANCELLOR—HIS HIGHNESS THE MAHARAJA GAEKWAR OF BARODA

VEIC-CHANCELLOR—J. M. MEHTA, MA OLSH, PhD Lond

PRO-VICE-CHANCELLOR—C. S. PATEL, BA MSc Bow., PhD Lond

REGISTRAR—B. K. ZUTSHI, MA LLB Luck.

DEPUTY REGISTRAR—B. M. NANAVATY, BA Bow., DEd

## TEACHING STAFF

### Accountancy

Mehta, K. C., BCom LLB, CA  
Shah, G. R., MCom DipBanking  
Shah, C. T., MCom

Reader  
Lectr  
Lectr

Modi, V. V., MSc PhD Lav.  
Patwa, Mrs. Dharmasha K., MSc  
Chokshi, H. R., MSc

Reader  
Lectr  
Lectr

### Agricultural Economics

Desai, M. B., MCom PhD

Prof

### Botany

Chavan, A. R., BSc PhD Nabranga  
Patil, C. H., MSc PhD Muz.  
Gadgil, L. K., MSc  
Mehta, A. R., MSc  
Deshmukh, Y. S., MSc  
Padate, S. N., MSc  
Bhatt, R. P., MSc  
Sabnis, S. D., MSc DipMus

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Applied Arts and Crafts

Pancholi, B. N., DTC  
Bhatt, G. K.  
Sant, N. K., BA(Fine)  
Tirvedi, V. P., BA(Fine)

Reader  
Lectr.  
Lectr.  
Lectr.

### Business Administration, see Comm.

### Archaeology and Ancient History

Wainwright, G. J., BSc Wales, PhD Lond  
Mehta, R. N., MA PhD  
Malik, S. C., DipArchaeol Lond., MSc  
Patel, A. C., MSc  
Shah, Mrs. Dolly R., MSc PhD  
Suryawanshi, B., MA  
Hegde, K., BSc MA

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Business Finance, see Banking

### Architecture, see Technology

### Banking and Business Finance

Shah, B. G., MCom  
Pandya, R. D., MCom DipBanking  
Waghmare, R. R., MA

Prof  
Lectr.  
Lectr.

### Chemistry

Sethna, S. M., MSc PhD  
Mehta, C. M., MSc PhD  
Bafna, S. L., MSc PhD  
Dave, J. S., MSc PhD Lond.  
Shah, C. J., MSc  
Shah, N. H., MSc PhD  
Shah, M. J., MSc  
Majumdar, V. H., MSc  
Godbole, A. N., MSc  
Sheth, N. M., MSc  
Lale, S. S., MSc PhD  
Talati, A. M., MSc PhD  
Shah, M. M., MSc  
Salvi, N. P., MSc  
Parikh, N. K., BSc BSc(Tech)

Prof  
Reader  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Biochemistry

Ramkrishnan, C. V., MSc PhD

Prof

\* Member of the Association of Universities of the British Commonwealth

**Commerce and Business Administration**

Dholakia, H. L., BCom PhD	Reader
Asthana, G. P., MBAS <i>Calif.</i> , MCom	Reader
Desai, H. B., MCom	Lectr.
Mehra, D. J., BCom	Lectr.
Dhruva, K. M., MA BCom	Lectr.

**Co-operation**

Nak, K. N., MA PhD	Reader
Reddy, K. N., MA	Lectr.
Rathod, C. S., MCom	Lectr.

**Dance**

Khotkar, M. P., BA	Reader
Tanjorkar, K. A.	Lectr.
Katputa, Miss Nargis, BA MMus	Lectr.
Merh, Miss Anjali S., DipDance	Lectr.
Katshik, S. L.	Lectr.

**Dentistry, see Medicine****Dramatics**

Mehra, C. C., BA	Hon. Prof.
Bhatt, R. P., BA	Lectr.
Bhatt, M. J., BMus	Lectr.

**Economics**

Gulati, I. S., MA PhD <i>Lausd</i>	Prof.
Venketramanian, L. S., MA PhD	Reader
Sandekar, J. C., MA PhD	Reader
Shukla, D. K., MA PhD	Reader
Pandit, Mrs. Dhuryabala P., MA <i>Yale</i>	Reader
Chakshi, H. P., MA	Lectr.
Elvase, Miss. Behroo H., MCom	Lectr.
Magnodas, P. M., MA	Lectr.
Rajendrakumar, MA(Econ) <i>Mase.</i>	Lectr.
Shah, K. R., MA	Lectr.
Kothari, V. N., MA	Lectr.
Yajnik, V. K., MA	Lectr.
Modi, R. J., MA	Lectr.
Sharma, J. N., MA	Lectr.

**Education**

Patel, M. S., MA PhD TD <i>Lausd</i>	Prof.
Qureshi, M. A., MA MEd PhD	Reader
Lele, T. P., BSc EdH <i>St And.</i> , DipEd	Reader
Phatak, Mrs. Pramila T., BA BT MEd PhD	Reader
Apte, D. G., MA BT MEd	Reader
Parikh, S. C., BA MEd	Lectr.
Shukla, N. N., BSc MEd PhD	Lectr.
Das, I. J., MA MEd DipMuscol	Lectr.
Peraandes, H. J. X., BSc MEd	Lectr.
Amm, Mrs. Mandakini M., MA MEd Ohio, BT	Lectr.
Thakar, R. S., BSc MEd DGC	Lectr.
Dongre, P. K., BA MEd DipALang	Lectr.
Sudame, G. R., BSc MA MEd	Lectr.
Shah, M. M., BSc MEd PhD	Lectr.
Medi, J. J., MA BEd	Lectr.

**Educational Administration**

Mukerji, S. N., TD <i>Lausd</i> , HDipEd <i>Dub.</i> , MAEd EdD DipEdAdm <i>Cal.</i> , MA BT	Prof
Desai, D. M., BA MEd PhD	Reader
Divekar, S. M., BA MEd PhD	Lectr.
Lulla, B. P., MA MCom MEd	Lectr.
Desai, D. B., BA MEd	Lectr.
Shah, R. S., MA BEd	Lectr.

**Education, General**

Yajnik, K. S., MA BT	Co-ordinator
Desai, B. G., MA PhD	Jr Co-ordinator
Joshi, V. H., MA	Lectr.
Tiwari, K. N., MSc	Lectr.
Dave, P. H., MA(Fine)	Lectr.
Gandhi, R. S., MA	Lectr.

**Engineering, see Technology****English**

Kantak, V. Y., MA	Prof
Rodrigues, E. L., MA <i>Cal</i>	Reader
Mehra, R. N., BA <i>Lausd</i> , MA LLB	Reader
Mahalkar, D. D., MA DipLang	Reader
Tilak, Mrs. Kamala, MA	Lectr.
Salgaonkar, V. D., MA LLB	Lectr.
Desai, J. D., MA	Lectr.
Joshi, Mrs. Sindhu N., MA	Lectr.
Raval, R. K., MA	Lectr.
Mehra, Miss Nileshvina C., MA	Lectr.
Chopra, Miss Kamala B., MA	Lectr.
Krishnamurthy, M. G., MA	Lectr.
Patel, P. G., MA	Lectr.
Sheshadri, C. K., MA	Lectr.
Bhatt, S. N., BA LLB	Lectr.
Burjo Patel, J. D., MA	Lectr.
Karnake, B. S., MA	Lectr.

**Fine Arts**

Chaudhary, N. N., BA	(Sculpture) Prof.
Bendre, N. S., BA	(Painting) Prof
Kapadia, K. B.	(Sculpture) Reader
Subramanian, K. G., DipArt	(Painting) Reader
Berun, B. K., DipPottery	(Sculpture) Lectr.
Bhatt, V. K., MA	(Art Hist.) Lectr.
Pandya, R. M., BA(Fine)	(Painting) Lectr.
Katputa, F. N., MA(Fine)	(Painting) Lectr.
Bhatt, J. M., DipPainting	(Painting) Lectr.
Pandya, M. D., BA(Fine)	(Sculpture) Lectr.
Patel, H. R., DTC	(Woodcraft) Lectr.
Joglekar, N. B.	(Lithography) Lectr.
Mehra, N. J.	(Photography) Lectr.
Pawar, R. K., MA(Fine) DipMve	(Art Hist.) Lectr.
Bhatt, G. C., DipSculpture	(Sculpture) Lectr.

**Geography**

Jasani, Miss Veenghila, MA BLitt <i>Oxon</i>	Reader
Gupta, C. M., MA MEd	Lectr.
Gollenkari, R. S., MA	Lectr.
Mishra, R. R., MSc	Lectr.





<b>Psychology</b>		Nash, R M, MSc PhD	Lectr
Bhatt, L J, MA Leeds & Bdo, BT	Prof	Talasila, C L, MSc	Lectr.
Potol, A S., MS(Ed) MS(Psy) WPa, MA		Pishvikat, S D, MSc	Lectr
JIT Med PhD	Reader		
Pasucha, Mrs. Prem, MA Pau (I) & Bdo,			
PhD Mum	Reader		
Wary, Mrs Mangula S., MA	Lectr		
Pothak, N S, MA	Lectr		

<b>HOME SCIENCE</b>	
<b>Arts and Crafts</b>	
Barbhou, B C	Lectr

<b>Sanskrit</b>		<b>HOME SCIENCE</b>	
Jani, A. N., MA PhD	Reader	<b>Arts and Crafts</b>	
Mehta, H. C., MA BT		Barbhaya, B. C.	Lectr
Principal, Daroda Sanskrit Mahavidyalaya			
Nachane, Miss Subochana A., MA PhD	Lectr	<b>Child Development</b>	
Kantawala, S. G., MA PhD	Lectr	Vaama, Mrs. Anant B., BA <i>Tumkur</i> ,	
		MA <i>Mch</i>	Prof

<b>Social Work</b>		<b>Clothing and Textiles</b>	
Musumdar, Mrs. Annu M., MA <i>MSW Cal</i> ,	Prof	Singh, Miss Justina A., MSc <i>Oregon &amp; Kansas</i>	Prof
Tayal, Mrs. Indra S., BS MSc <i>Ohlawa</i> ,		Pandit, Miss Savita S., BSc <i>Wash</i> , BA	Lectr
MSW <i>Mch</i>	Prof	TTD	
Dandani, G. G., BA MSW			
MSc <i>W Reser</i>	Reader	<b>Foods and Nutrition</b>	
Patel, Miss Indira M., BA MSW	Reader	Gore, U. R., MSc <i>Ohio</i>	Prof
Ramdev, S. R., BA MSW	Lectr	Patel, Mrs. Anargyoti, MS <i>Howard</i> ,	
Dahi, Miss Shalantala F., MA	Lectr.	BSc(Home)	Lectr
Yardi, S. R., MA LLB MSW	Lectr.	Chhabra, Miss Shakti K., MSc(Home)	Lectr.
Shelst, L. P., BA MSW	Lectr	Patel, Miss Kalindi C., MSc(Home)	Lectr.
Motwani, J. K., MA MSW	Lectr		
Mudaliar, N. S., BSc MSW	Lectr	<b>Home Science Education</b>	
Patel, Miss Jaybala P., BA MSW	Lectr	Chari, Miss Padma S., MSc <i>Drexel Tech</i>	
Yelase, S. A., BA MSW	Lectr	Inst., BA BT	Reader
Majumdar, S. K., BSc MSW	Lectr	Chandra, Mrs. Arunda, MSc <i>Howard</i> ,	
Chaturvedi, H. R., BA MSW	Lectr	BSc(Home)	Lectr
Hussain, Miss Sidaina, BA MSW	Lectr		

<b>Sociology</b>		<b>MEDICINE</b>	
Desai, I. P., MA PhD	Prof	<b>Anaesthesia</b>	
Panchanandikan, Mrs. Julia P., MA PhD	Reader	Parulekar, R. P., MB BS DA	Teacher
Panchanandikan, K. C., MA PhD	Lectr	Parikh, R. C., MB BS DA	Teacher
Sheth, N. R., MA	Lectr.		
Volunjak, T. N., MA PhD	Lectr.	<b>Anatomy</b>	
Sheth, T. N., MA	Lectr.	Varde, Miss Malini R., MSc PhD	Lectr
Shahani, Miss Savita J., MA PhD	Lectr	Gupte, P. S., MSc MB BS	Lectr.

<b>Statistics</b>		<b>Dentistry</b>	
Bhatt, N. M., MSc LLB PhD <i>Edu</i>	Prof.	Dwivedi, R. C., LDS	Teacher
Bhambet, Mrs. Indira V., MSc <i>Lowd</i>	Reader	Dave, H. J., LDS	Teacher
Patel, M. S., MSc PhD	Lectr		
Patel, Y. C., MSc	Lectr	<b>Ear, Throat and Nose</b>	
Jainwal, S. C., MSc	Lectr.	Patel, C. B., MB BS DL&O	Teacher
Pothak, A. G., MSc	Lectr.	Shrivastava, N.	Teacher
Shah, B. K., MSc	Lectr.		

Technology, see below

Textiles, see below

<b>Zoology</b>		<b>Medicine</b>	
George, J. C., MSc PhD	Prof	Dave, S. T., MD, MRCPed	Prof
Shah, R. V., MSc PhD	Reader	Ambegaonkar, D. S., MRCP	Teacher
Ranade, V. D., MSc	Lectr.	Lahar, P. M., MRCP	Teacher
Shah, V. C., MS <i>Mum</i> , MSc	Lectr.	Munshi, C. P., MD	Teacher
		Shah, C. P., MD	Teacher
		Patel, M. V., MD	Teacher

Desai, R. D., MD  
Devit, V. B., MD DPed  
Vaidya, P. M., MD

Teacher  
Teacher  
Teacher  
Skin and Venereal Diseases  
Veema, B. S., DVD Baw., MB BS  
Patel, G. J., MD

Teacher  
Teacher

#### Mental Diseases

Mukhey, A. N., MD MSc

Teacher  
Surgery

#### Obstetrics and Gynaecology

Wagle, Mrs. Sharayu M., MD  
Gokani, B. M., MD  
Patel, T. V., MD  
Pandit, R. D., MD DGO  
Swami, Mrs. Nirmala B., MD  
Patel, V. G., MD  
Pandit, Mrs. Sindhu R., MD

Teacher  
Prof. Lectr.  
Teacher  
Teacher  
Teacher  
Teacher  
Teacher  
Bhatt, P. A., MS  
Trivedi, P. M., MS  
Patel, M. A., MS, FRCS, FRFPSCGlas  
Kothari, A. B., MS, FRFPSCGlas  
Desai, R. C., MS  
Patel, M. D., MS  
Patel, M. S., MS  
Shah, K. M., FRCS  
Patel, B. C., MS  
Patel, R. F., MS

Prof.  
Lectr.  
Teacher  
Teacher  
Teacher  
Teacher  
Teacher  
Teacher

#### Ophthalmology

Shah, V. M., MB BS DO  
Sudhakar, M. S., MB BS  
Desai, V. K., MB BS DO

Teacher  
Teacher  
Teacher  
Tuberculosis  
Pujari, B. M., FRCS

Teacher

#### TECHNOLOGY

##### Orthopaedics

Merchant, G. V., MS  
Trivedi, S. R., MS

Teacher  
Teacher

##### Pædiatrics

Shah, S. H., MRCPed  
Shah, J. M., MB BS DCH

Teacher  
Teacher

##### Pathology

Sayed, B. A., MD  
Shahguli, K. N., MD  
Pachh, N. B., MD  
D'Souza, T. J., MB BS  
Padmanabhi, S., MB BS  
Balar, D. B., MB BS  
Shah, M. N., MB BS  
Parani, A. F., MS  
Shukla, D. N., MSc

(on deputation) Prof.  
Offg. Prof.  
Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Asst. Pathologist  
Biochemist

##### Applied Mechanics

Madan, P. J., BSc Edn., DIC,  
MSc(Eng) Lond  
Dughe, R. S., BE(Civil)  
Hirayur, N. Y., BSc BE(Civil) Dug  
Dangle, S. K., MSc(Civil) Colorado,  
BE(Civil)  
Dave, N. J., ME(Civil)  
Bansal, B. J., BE(Civil)  
Bhogia, T. D., BE DCE  
Joshi, N. P., BE(Civil)  
Desai, C. D., ME(Civil)  
Shah, N. C., BE(Civil)

Prof.  
Prof.  
Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

##### Architecture

Dave, M. B.  
Achwal, M. B.  
Patel, S. L.  
Pungle, N. S.  
Nandurbekar, A. P., DipArchit Lond  
Kadia, M. M.

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.

##### Civil Engineering

Khadilkar, C. H., BE(Civil), MIE(India)  
Patel, O. H., MS Jassa, BE(Civil)  
Shah, N. A., BE(Civil)  
Dave, R. M., MTech MS JFsr, BE(Civil)  
Ganachandani, B. P., BE(Civil)  
Shah, N. C., BE(Civil)  
Shah, V. C., BE(Civil)  
Nanavaty, B. B., BE(Civil)  
Shah, C. K., BE(Civil)  
Parikh, P. V., BE(Civil) MSc  
Devaskar, S. V., DCE  
Pandya, M. A., DCE  
Shukla, B. T., DCE  
Mans, P. N., BE(Civil)

Prof.  
Prof.  
Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

##### Preventive and Social Medicine

Nayagi, A. K., DPH Baw., DIH Edn.,  
MB BS  
Joshi, M. J., MB BS

Prof.  
Prof.  
Jr. Lectr.

##### Radiology

Gandhi, A. M., DMR Baw. & Lond,  
MB BS  
Dave, N. A., DMR&E

Teacher  
Teacher

##### Electrical Engineering

Sen, S. M., MSc Dacca, MS(EE)  
PhD(EE) Ill.

Prof.

Roy, S. K., BSc(Elec)	Prof.	Lodhewala, P. M., DME D&E	Lectr
Basna, P. R., MS III, BE(Elec)	Prof	Satyanaayan, D. S., BE(Mech)	
Thakore, K. K., BSc BSc(Elec)	Reader	BTextEng	Lectr
Shah, K. D., BE(Elec)	Reader	Pandya, A. D., BE(Mech)	Lectr
Mukhyans, D. P., BE(Elec)	Lectr	Mehra, S. K., BE(Elec&Mech)	Lectr
Patel, S. I., BE(Elec&Mech)	Lectr	Shah, V. H., BE(Mech)	Lectr
Derasari, J. R., MS(EE) <i>Ward</i> , BE(Elec&Mech)	Lectr	Sharma, S. C.	Lectr
Moorthy, M. K. S., MS(EE) <i>Township</i> , BE(Elec)	Lectr	Padke, A. S., BE(Mech)	Lectr
Datta, C. P., BE(Elec)	Lectr	Sethi, V. N., DME	Lectr
Amun, C. M., DEE	Lectr	Deyai, M. B., BE(Elec&Mech)	Lectr
Datta, R. C., BE(Elec)	Lectr	Shah, S. R., BE(Mech)	Lectr

**Mechanical Engineering**

Shah, L. B., MSc(Tech) <i>Mech</i> , BSc(Eng)	Prof
Shah, J. M., BE(Mech&Elec), MIE(India)	Prof.
Joshi, T. N., BSc(Eng)	Reader
Shah, R. T., DrIng BE(Mech)	Reader
Shah, K. S., DScTech BE(Elec&Mech)	Reader
Patel, R. C., MSc <i>Barw</i> , BE(Mech&Elec)	Reader
Patel, B. M., DME	Lectr
Raghavachari, T. S., BE(Mech)	Lectr
Dave, B. E., DME	Lectr
Karashchandani, C. J., DME	Lectr
Kandak, Y. K., BE(Mech&Elec)	Lectr
Patel, S. I., DME	Lectr
Patel, T. D., BE(Mech) DEE	Lectr
Dave, B. G., DME	Lectr
Chitale, C. K., BE(Mech)	Lectr

**Textile Chemistry**

Desai, R. L., PhD <i>Leach</i> , BSc MSc(Tech)	Prof
Warty, S. S., BA BSc BScTech	Lectr
Chauhan, B. N., BSc BScTech	Lectr

**Textile Engineering**

Patel, K. H., MScTech <i>Mech</i> , BScEng	Prof
Shah, S. J., Dupling DrIng Zib	
BE(Mech&Elec)	Reader
Mistry, R. J., BSc BTextEng	Reader
Datta, K. T., BTextEng	Lectr

**Textile Technology**

Krishnamurthy, K., DTT BScTech	Reader
Patel, C. B., BTextEng	Lectr
Trussar, C. N.	Lectr

**ADMINISTRATIVE AND OTHER STAFF**

*Asst. Registrar:* K. A. Anand, MCom. *Univ*  
*Auditor:* H. N. Majumdar, BCom, CA *Univ*  
*Engineer:* B. B. Nannavaty, BE(Civil), *Univ*  
*Accountant:* N. A. Parikh, BCom. *Dir.*, Phys  
*Educn:* B. K. Naik, BS MPE *Springfield*  
*Supt.*, Phys Educn. *Miss* S. S. Tawade, Phys.  
*Instrs.* H. J. Parikh, BA, P. N. Thakore, BT,  
 C. C. Bhargava, BSc. *Wardens of Halls of Resi-*  
*dence:* S. S. Mehta, K. S. Yajnik, H. C.  
 Dholakia, O. D. Gulati, *Miss* A. DeCruz;  
*Miss* P. G. Pandya; *Miss* Mangala Mehta,

C. M. Patel, R. N. Mehta, C. H. Khedekar;  
 J. R. Desani; *Dr.* V. V. Mody. *Supt.*, Chetan  
 Bahadur Mrs. Ananta B. Verma. *Hon. Med*  
*Officer:* G. S. Apte, MB BS. *Med. Officers:*  
 M. H. Tator, MD (Men), Mrs. Sulochana Shah,  
 MB BS (Women). *Librarian*, *Univ. Library:*  
 C. P. Shukla, PhD *Mech*, MA BT. *Principal*,  
*Univ. Experimental Sch.:* G. P. Bhatt, BA BT  
*Med. Manager*, M. S. *Univ. Press:* R. J. Patel,  
 BA.

**CONSTITUENT INSTITUTIONS**

**BARODA SANSKRIT MAHAYIDYALAYA**, Bank Rd.,  
 Baroda (no tel.) *Principal:*—H. C. Mehta, MA  
 BT

**COLLEGE OF INDIAN MUSIC, DANCE AND  
 DRAMATICS**, South of *Surangar*, Baroda (tel. 4452). *Principal:*—R. C. Mehta, BA.

**PREPARATORY UNIT**, Station Rd., Baroda (tel. 4380). *Head:*—K. S. Yajnik, MA BT

**ORIENTAL INSTITUTE**, Sant. Hanra Mehta  
 Library Bldg, Station Rd., Baroda, 2 (tel. 4727)  
*Dir.*—B. J. Sandesani, MA PhD

**POLYTECHNIC**, Nr. Nivampura, Baroda (tel. 3005) *Principal:*—C. H. Khedekar, BE(Civil),  
 MIE(India)

**RECOGNIZED INSTITUTION**

**BARODA MUSEUM AND PICTURE GALLERY**, Sayaji Park, Baroda (tel. 4505)  
*Offg. Dir.*—B. L. Menkhed, BA LLB

## GENERAL INFORMATION

The idea of establishing a univ. at Baroda had engaged the attention of the govt. of the former state of Baroda as early as 1908, and in 1927 the Baroda univ. commission apptd. by the govt. of Baroda submitted a report making a strong case for the immediate estab. of a univ. Circumstances, however, did not permit this. In 1949 another cttee., consisting of eminent educationalists apptd. by the govt. of Baroda, recommended the estab. of a residential univ. The univ. was estab. in April 1949 under the Maharaja Sayajirao University of Baroda Act.

It is a unitary, teaching and residential univ. Its jurisdiction extends over a radius of 10 miles from the office of the univ.

**CONSTITUTION.** His Highness the Maharaja of Baroda is chancellor of the univ. The vice-chancellor is the principal exec. and academic officer and is aided by a pro-vice-chancellor or rector. The vice-chancellor and pro-vice-chancellor or rector are elected by the senate from amongst the names of persons of 3 persons submitted by the syndicate. The senate is the supreme governing body and authority of the univ. and the syndicate its exec. authority. Among the other authorities are the council of postgrad. studies and res. which deals with all postgrad. matters, and the fac. and bds. of studies which are principally responsible for all other academic matters. Provision has also been made in the act for the estab. of a bd. of extra-mural studies, bd. of sports, students' welfare bd. and public bd.

**INCOME (1961-62)** Total income Rs 6,022,936 (principal sources: govt. grants, 41.7 per cent.; fees, 37 per cent.; endowments, 0.5 per cent.).

**FACULTIES AND DEANS.** Arts, Prof. I. S. Gulati (econ.); *com.*, Prof. B. G. Shah (banking), *educ.* & *psychol.*, Prof. S. N. Mukerji (educul. admin.); *fine arts*, Prof. N. S. Bendre; *home sci.*, Prof. (Mrs.) Justina Singh (clothing & text.); *law*, H. C. Dhondika; *med.*, Prof. J. D. Pathak (physiol.); *sci.*, Prof. S. M. Sethna (chem.); *sec. sci.*, Prof. (Mrs.) Anant M. Mazumdar; *technol. & engin.*, Prof. P. J. Madan (appl. mech.).

**LIBRARIES.** Central univ. lib.; specialized librs. in all fac., insts. and halls of residence. Oriental inst. lib. has 26,573 MSS and 23,315 books. Total stock in all librs. 275,538.

**MUSEUMS.** Ancient musical instruments; archaeol., teaching aids; all depts. of med. fac.

**LABORATORIES, ETC.** Biochem., bot., chem., geol., stats., wood.; all depts. of home sci., med. and technol. facs. Studios and workshops for fine and appl. arts.

Bot. garden; herbarium; observatory; Research for res. in Ayurveda; experimental sch.

**TEACHING HOSPITALS.** Shri Sayaji General H., Padmasvasti TB Sanatorium, Jarambati H.

**ADMISSION.** Students who have passed the Gujarat sec. sch. cert. exam. or entrance, matric. or equivalent exam., or recog. exam. of Bombay, Poona, Karnataka, Gujarat or any other statutory univ. estab. in state of Gujarat or other recog. exam. of any other Indian statutory univ. will be admitted to the course leading to the 'preparatory exam.' (see below).

**PREPARATORY AND PRO-FACULTY COURSES.** A 1-yr. course from matric. leads to the preparatory exam. The 1-yr. pro-faculty course, for students who intend to read for 1st degrees in technol. and engin. or in med., are open to those who have passed the preparatory exam. in sci. or an equivalent exam.

**FIRST DEGREES.** BA, BSc, BCom—3 yrs. after preparatory exam. in arts, sci., *comm.*; BE (civil, elect., mech.), BText (Eng), BText (Tech)—4 yrs. after preparatory exam. in sci. (i.e. 3 yrs. after pre-profess. course); BSe (Home), BA (Fine), BMus—4 yrs. after matric.; BArch—5 yrs. after matric.; MB BS—5 yrs. after pre-profess. course in med. No hon. degrees are awarded.

**HIGHER DEGREES.** BED—1 yr. after bachelor's degree in arts, sci., *comm.*; LL.B., MA, MEd, MSc, MCom, MA (Fine), MMus, MSe (Home), MSW, MD, MS, ME (civil, elect., mech.)—2 yrs.; PhD in arts, sci., *comm.*—2 yrs. after master's degree.

The univ. does not award HONORARY DEGREES.

**DIPLOMAS.** Teaching (TD), co-operation (DipCo-op), 1 yr. after matric.; engin. (DCE, DEE, DME), textile chem. (DTC), dance, dramatics, 3 yrs.; textile technol., painting, sculpture, appl. arts, 4 yrs.; music, 5 yrs.; also post-dipl. courses in painting, sculpture, appl. arts, 2 yrs. Postgraduate: banking, library sci., co-operation, profess. dipl. in educ. admin. (DipEdAdm) and in appl. linguistics (DipLang), museol., 2 yrs.; guidance & counselling (DGC), early childhood educ. (DipECEd), 1 yr.; nursery sch. educ., ophthalmol. (DO), ozenothol. (DA), clin. pathol. (DCP), 12 mos.; laryngol. & otol. (DL&O), med. radiol. & electrol. (DMR&E), paediatrics, (DPed), venereal & dermatol. (DV&D), 9-12 mos.; tubercular dis. (TDD), 12-18 mos.; gynaecol. & obstet. (DGO), 12 mos.

**ORIENTAL TITLES.** Vaidya, 3 yrs.; Pauranik, 3 yrs.; Shastri, 2 yrs. after Vaidya, Acharya, 2 yrs.; Vachaspathi, 2 yrs. after Acharya.

**STUDY LEAVE** may be granted to not more than 3 members of teaching staff at a time. Study leave of not more than 3 yrs. or, ordinarily, less than 6 mos. can be granted to members below the age of 45 after at least 5 yrs. permanent service. Payment of all educ. fees, stipend subs. to a max. of Rs. 450 p.m. for study abroad and Rs. 150 p.m. for study in India, rail and station fare from Baroda to place of study and back.

**Fees.** Tuition per term : degree courses—arts, comm., sci, Rs 100, educn. & psychol, Rs 120; technol, Rs 200; fine arts, home sci, Coll of Indian Music, Dance & Dramatics, Rs 75. Higher degree courses—arts, comm., sci, LL.B., soc work, Rs 100, educn. & psychol, Rs 100 (for 2 yrs by papers); fine arts, home sci, Coll of Indian Music, Dance & Dramatics, Rs 75. Dipl. courses—educn. & psychol, Rs 60, comm., Rs 25, technol, Rs 100, fine arts, Rs 75. Post-dipl. courses—fine arts, Rs 75. Postgrad. dipl. courses—comm., fine arts, Rs 100.

**Lab. fees per term :** fine arts (all courses except postgrad. dipl.), Coll of Indian Music, Dance & Dramatics, Rs 20, home sci (degree and higher degree courses), Rs 20; sci (degree courses) 1st yr and pre-med, Rs 25; and 2nd yr, Rs 40.

**ACADEMIC YEAR.** Two terms, each of approx. 16 wks, from June 21 (fine arts, July 1, soc. work, July 15) to March 20 (fine arts, March 31; med. & soc work, April 15).

**The LANGUAGE OF INSTRUCTION** at present is Engl. All exams in the univ. are conducted in Engl., except lang. papers, but students taking prep. course and post SSC dipl. courses in teaching and early childhood educn. have the option of answering papers other than lang. papers in Engl. or Hindi or Gujarati or Marathi.

**SCHOLARSHIPS.** Postgrad. scholrps. of Rs 60 p m., 5 each for arts and sci., 1 each for comm., technol. & engin., fine arts and Indian music, dance & dramatics; 2 each for educn. & psychol., home sci. and soc. work.

**HALLS OF RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above.) (No tel. except where indicated.) For men : Shri Manubhai Mehta Hall, Univ. Campus, Baroda, 174 students; Maharshi Arvind Hall, Univ. Campus, Baroda, 169 students; Dr Jivraj Mehta Hall, Univ. Campus, Baroda (tel. 4259), 176 students; Shri K. M. Munsu Hall, Univ. Campus, Baroda, 122 students; Shri Dadabhai Naoroji Hall, Univ. Campus, Baroda, 75 students; Keshavprasad Hostel, Bagikhana Rd., Baroda, 32 students; 3 polytechnic hostels, 450 students. For women : Shrimati Sarojinidevi Hall, Univ. Rd., Baroda (tel. 4461), 259 students; Shrimati Hansa Mehta Hall, Univ. Rd., Baroda, 151 students. Fees : Rs. 85 per term.

**STAFF RESIDENCES.** The univ. has 7 residential bungalows, 18 flats and 25 small cottages, 5 profs., 5 readers' and 20 lectrs' quarters.

**NATIONAL CADET CORPS.** The univ. N.C.C. has 9 units : 3rd Gujarat bn., total strength 625 cadets and 19 officers; 4th Gujarat girls troop (135 cadets, 3 officers); 18th Gujarat engin.

platoon (60 cadets, 2 officers); 20th Gujarat med. co. (120 cadets, 2 officers); 16th Gujarat gals. troop (135 cadets, 3 officers); 17th Gujarat sqn (67 cadets), and Gujarat group N.C.C. rifles (1924 cadets, 10 officers); 20th Gujarat signal section (120 cadets, 2 officers); 3rd Gujarat tech. sqn (39 cadets, 2 officers).

**AUXILIARY CADET CORPS.** The univ. has also introduced the A.C.C. scheme which aims at developing character and capacity for leadership and is compulsory for students of the first 2 yrs in degree and dipl. classes.

**STUDENT HEALTH SERVICE.** All new students are medically examined. There are 2 med. officers (see 'Admin. and Other Staff', above), 1 for men and 1 for women, who visit the halls of residence regularly and attend to the 'follow-up' work of cases indicated by the med. exam bd. The univ. has also constructed a bldg. for a students' health centre and necessary equipments, instruments and furniture are being purchased. A full-time med. officer, pt.-time lady officer and other ancillary staff have been apptd.

**STUDENTS' UNION.** The exec. cttee consists of the pres. apptd. by the univ. from amongst members of staff, the treasurer apptd. by the vice-chancellor from amongst members of staff, and 20 elected student reps. of different facs. and insts. of the univ. The vice-chancellor is patron of the union. The union holds debates, arranges public lectures, and maintains a lib., reading and games rooms, co-op store and co-op bank.

**STUDENTS' ADVISORY BUREAU FOR STUDIES IN INDIA AND ABROAD.** The bureau collects and supplies information about foreign and Indian univs. and other educn. instns. It advises students on studies in foreign countries and India. The lib. contains prospectuses, regns., handbooks, calendars of various univs., besides books of gen. interest, incl. books giving information about scholrps., cost of studies and instrcn. for students desiring to go abroad. The bureau also helps students in obtaining admission to foreign univs.

**PUBLICATIONS.** *Handbook Part I* (univ. authorities) annually, *Part II* (act, statutes, ordinances) 1956, *Part III* (syllabuses, entrance requirements) 1955, *Part IV* (prescribed and recommended text-books) 1954; *Annual Report*; *Univ. Journal* (March, Oct.); *Journal of Oriental Institute* (quarterly); *Journal of Education and Psychology* (quarterly).

**UNIVERSITY PRESS.** All printing work of the univ. and instns. is undertaken by the univ. press, which is supervised by a cttee. apptd. by the syndicate.

## THE YEAR 1961

**PRINCIPAL BENEFACTORS.** Sa Sayajirao Dinmodi Jubilee and Memorial Trust Fund, Rs. 100,000.

**MAJOR BUILDING DEVELOPMENTS.** Bldg. for 3rd Guy. battalion, construction of three hostels for men students, extn. of bldg. of fac. of

home sci, polytechnic bldg, extn. of fac. of sci., bldg. for students' health centre, additional wing to soc. sci. block, extn. of bldg. of Coll. of Indian Music, Dance and Dramatics, first floor over seminar bldg, first floor over painting studio, non-resident students' centre, extn. of fac. of sci. bldg. for phys. and geog. depts., bldg. for dept. of co-operation, 5 profs', 8 readers', 20 lecturers' and 24 servants' quarters.

**REMARKS:** I. S. Dave (arts); G. S. Monga (arts); A. J. Pandya (arts), M. B. Buch (educn. & psychol.), S. S. Dighe (technol.), L. C. Patel (technol.), C. Shrinivasan (technol.), P. K. Joglekar (fine arts), Ku H. Chhaty (home sci.), Mrs. T. H. Bhagat (home sci.); Mrs. K. G. Karandikar (home sci.); V. S. Telang (soc. work).

### Statistics

STUDENT NUMBERS, July 1961

	Full-Time	Part-Time
Men	6687	—
Women	1327	—
Total	8014	—

**Distribution by Faculties:** Arts, 1044, comm., 980, educn. & psychol., 321, fine arts, 169, home sci., 339, Coll. of Indian Music, Dance and Dramatics, 42; Prep. inst., 1341; med., 367, polytechnic, 916, Sanskrit Mahavidyalaya, 32, sci., 675, soc. work, 76, technol. & engin., 1715. Total: 8014.

Included in the figures above are —

Preparatory unit or Pre-University students,

1341

Postgraduate students, 782 (633 m., 149 w.)

New admissions, 3403 (2722 m., 681 w.)

Students from other countries, 133

**DIPLOMAS AWARDED (1960-61):** Arts, BA, 295, MA, 56, Comm. BCom, 253, MCom, 10, Educn. & psychol.: BEd, 114, MEd, 18, Fine arts: BA(Fine), 15, MA(Fine), 1, Home sci. BSc(Home), 32, MSc(Home), 40, Med. MB, BS, 86, MD, 11, Music, dance & dramatics: BMus, 5; MMus, 5, Sanskrit Mahavidyalaya: Shastri, 1, Sci.: BSc, 121; MSc, 49, Soc. work: MSW, 26, Technol. & engin.: BE (civil, mech. & electr.), 206, BText(Eng), 16, BText (Tech), 6, PhD (all facs.), 17.

**DIPLOMAS AWARDED (1960-61):** Labr. sci. (postgrad.), 12; banking (postgrad.), 6, DA, 3, DPed, 2, museol. (postgrad.), 3.

# BIHAR UNIVERSITY\*

Founded 1960, previously established 1952

*Postal Address* : Muzaffarpur, Bihar State, India

*Cables and Telegrams* : Biharvarsaty

*Telephone* : 569, 591-2

CHANCELLOR—THE GOVERNOR OF BIHAR (*ex officio*)

VICE-CHANCELLOR—P. L. SHRIVASTAVA, MA DPhil Oxon, FNI

TREASURER—T. N. SINHA, BA BL

REGISTRAR—K. S. VARMA, MA PhD

FACULTIES AND DEANS—AGRICULTURE—Principal S. K. MUKHERJEE, MSc Iowa, DipAg NZ; ARTS—H. R. GHOSHAL, DLitt, COMMERCE—Prof K. N. SHRIVASTAV, MCom; ENGINEERING—D. P. SINHA, LAW—Principal K. NARAYAN, MA BL, SCIENCE—R. SHUKLA, PhD Lond

DEPUTY REGISTRAR—P. ROY CHOUDHARY, BSc

FINANCE OFFICER (OFFG)—P. R. CHOWDHARY, BSc

## ADMINISTRATIVE AND OTHER STAFF

Asst Registrar : A. P. Sinha, MCom, Planning Officer : R. C. P. Sinha, MA

## CONSTITUENT COLLEGES

[MA, MSc, etc., after the name of a coll. means that courses are provided there for MA, MSc, etc.]

MUZAFFARPUR, *Laxat Singh College* (tel. : Muz. 61) BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—B. N. Singh, DSc. Hds. of postgrad depts. BOT.—S. S. Prasad, MSc (Actg.), CHEM.—D. N. Chowdhary, PhD Dacca, ECON.—H. G. Singh, PhD Lond, INGL.—M. Pratap, MA Camb; HINDI—D. N. Sharma, MA, HIST.—H. R. Ghoshal, DLitt, MATHS.—R. Shukla, PhD Lond, PHILOS.—Y. Masih, PhD

Lond; PHYS.—S. C. Prasad, PhD, POL. SCI.—L. P. Singh, PhD Lond, PSYCHOL.—A. HANNA, PhD Lond; SANSK.—J. Mishra (actg. hd. of postgrad dept.), ZOOL.—R. B. Sharma, PhD. 113 other Teachers.

DARRHANGA, *C. M. College* (tel. : Dar. 41) BA, BSc, BCom, BA hons., BCom hons., BSc hons. Principal—L. K. Mishra, PhD Natal. 86 other Teachers.

## COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

BARBARAHILL, *Jaykish Nandan College*. BA. Principal—...; 6 other Teachers

BETTIAN, *Maharati Janki Kunwar College*. BA, BSc. Principal—A. K. Prasad, MA, 24 other Teachers.

BHAGWANPUR, *Levan Narain College*. BA. Principal—B. P. Singh; 6 other Teachers.

CHANDAUJI, *Jagannath Singh College*. BA. Principal—J. P. Sinha, MA; 8 other Teachers

CHAPRA, *Jagdasi College*. BSc, BA, BA (hons.). Actg. Principal—S. Prasad Singh; 29 other Teachers

CHAPRA, *Jay Prakash Mohila Mahavidyalaya*. BA. Principal—Miss Bhagya Vikram; 11 other Teachers

CHAPRA, *Rajendra College* (tel. : Chap. 21) BA, BSc, BCom, BA (hons.), BSc (hons.), BCom

\* Member of the Association of Universities of the British Commonwealth

(hons) Principal—B P Singh, MSc, 75 other Teachers.

DALINGHARA, *R.B. College*. BA. Principal—S. N. Singh.

DARHANGA, *Chandradham Mathura College* (tel + Dar. 51). BA, BSc, BCom, BA (hons), BSc (hons), BCom (hons) Principal—L. K. Mishra, PhD, 99 other Teachers.

DARHANGA, *Mowari Mahavidyalaya* BA Principal—N. P. Sinha, MA, 11 other Teachers.

DARHANGA, *Millat College* BA Principal—I. H. Rizvi, 11 other Teachers.

GOPIGANJ, *Gopalganj College* BA Principal—R. P. Sinha, MA.

HATIPUR, *Raj Narain College* BA, BSc Principal—N. C. Bhattacharya, MA, 28 other Teachers.

HATHWA, *Gopeshwar College* BA, BSc Principal—D. N. Sahay, MA, 11 other Teachers.

JUNWAR (Darbhanga), *D.B. College* BA Principal—

JAMTIPUR, *Rajendra Prasad Sinha College* BA Principal—R. M. Prasad, 8 other Teachers.

JHANSARPUR, *Janta College* BA Principal—P. Mishra, 10 other Teachers.

MAHESHWARI, *Ram Krishna College* BA, BSc, BCom. Principal—A. K. Dutta, MA BL, 70 other Teachers.

MOHANPUR, *G.M.R.D. College* BA. Principal—

MOTIHARI, *Dr. S. K. Sinha Women's College* BA. Principal—Mrs E. Samuel, MA, 6 other Teachers.

MOTIHARI, *Muzah Singh College* (tel + Moti 53) BA, BSc, BA (hons), BSc (hons) Offg Principal—B. N. Singh, MSc, 54 other Teachers.

MUZAFFARPUR, *Mahant Darshan Day Mahala College* (tel + Mus. 171) BA, BSc Principal—Mia Lalita Sinha, MA, 33 other Teachers.

MUZAFFARPUR, *Ram Dayal Singh College* (tel + Mus. 137) BA, BSc, BCom, BA (hons) Principal—G. P. Singh, MA, 55 other Teachers.

PANDUA, *Anant College* BA Principal—J. Pandey, MA, 9 other Teachers.

PARRA, *Janta College* BA. Offg Principal—S. Sinha, 5 other Teachers.

ROSIHA (Darbhanga), *Rosaha College* BA Offg Principal—S. N. Thakur.

SAMTIPUR, *Patan College* BA Principal—

...

SAMTIPUR, *Sawasim College* BA, BSc, BA (hons) Principal—C. S. Kishor, MA, 33 other Teachers.

SARABANATH, *Maharaja Lakshminarayana Singh College* BA. Principal—... 9 other Teachers.

SITAMARHI, *S.R.K. Ganga College* BA, BSc, BCom. Principal—B. M. Mishra, MA, 28 other Teachers.

SIWAN, *D.A.V. College* BA, BSc, BCom Principal—B. B. Mishra, PhD, 32 other Teachers.

### Professional Colleges

DARHANGA, *C.M. College* (tel + Dar. 51). BL parts I & II. Principal—L. K. Mishra, MSc PhD, 5 other Teachers.

DARHANGA, *Medical College* (tel + Dar. 28) MB BS, MD, MS. Principal—M. Prasad, 57 other Teachers.

MUZAFFARPUR, *Institute of Technology* (tel +

Mus. 117). BSc(Eng) in civil engin. Principal—D. P. Singh, 22 other Teachers.

MUZAFFARPUR, *S.K.J. Law College* (tel + Mus. 114) BL parts I & II. Principal—K. Nainyan, MA BL, 5 other Teachers.

PUR, *Tirum Agriculture College* Principal—S. K. Mukherjee, MSc Jans, DipAg N Z

## GENERAL INFORMATION

Previously founded in 1952 by the Univ of Bihar Act, 1951, the univ was establd. on July 12, 1960, by the Bihar State Univ. Act, 1960\*. It is affiliating and teaching. The act provides for postgrad. teaching and res in the affiliated colls to be conducted directly by the univ; and teaching up to 1st degree stage by the affiliated colls. The constituent colls are maintained by the univ itself.

During the 3rd plan (1961-62 to 1964-66) it is proposed to spend Rs. 7,943.418 on devel and

expansion of postgrad. studies and res, to create 7 new postgrad. depts, and dipl. course in pub admin, at cost of Rs. 1,155.499; to construct bldg. for postgrad. depts., central lib., hostels, teachers' quarters, workshop, press and guest home, at cost of Rs. 5,241.000, and to spend Rs. 1,350.210 on books and journals, sci equipment, creation of posts of univ prof., etc., for devel of existing postgrad. depts (bot., chem., econ., Engl., Hindi, hist., maths, philos., phys., pol sci., psychol., Sanskrit, zool).

\* The Univ. of Bihar Act, 1951, and the Patna Univ. Act, 1951, have been repealed and in their places the Bihar State Univ. Act, 1960, has now come into force, establd. by the state legislature; (1) Patna Univ., Patna; (2) Bihar Univ., Muzaffarpur; (3) Bhagalpur Univ., Bhagalpur; and (4) Ranchi Univ., Ranchi.



**CONSTITUTION** The senate (about 100 members) is the supreme governing body of the univ. and has the entire management of and superintendence over the affairs, concerns and property of the univ. It is reconstituted every 3rd yr. The syndicate (19 members) is the executive body of the univ. The academic council (21 members) is the chief academic body of the univ.

**INCOME** (1961-62) Rs 6,328,364 (exam fees, Rs 1,164,249; registration, inspection, etc., Rs 125,307; U G C, Rs 109,647; state govt., Rs 4,512,847; central govt., Rs 150,000; misc., Rs 166,324).

**FACULTIES AND DEANS** See p 572. There are about 35 bds. of studies.

**ADMISSION.** Admission to the 5-yr. degree course in arts, sci. and comm. is open to holders of cert. of higher sec. exam., pre-univ. exam. or an exam. recog. by the academic council as equivalent. (Pre-univ. cert., 1 yr. after matric. or equivalent.)

**FIRST DEGREES** BA, BSc, BCom, pass and hon., 3 yrs. after higher sec. or pre-univ.; BSc(Eag), 4 yrs.; BSc(Agric), 3 yrs. after BSc pt. I; MB BS, 5 yrs. after BSc pt. I.

**HIGHER DEGREES** MA, MSc and BL, 2 yrs. after bachelor's degree (MSc in all tech. facs., 2 yrs. after BSc in same fac.); ML, 2 yrs. after BL; MD and MS, 2 yrs. after MB BS of which at least 1 yr. practical study or hosp. work. The PhD is awarded to MAs and MScs by exam. & thesis after 2 yrs.' res. The DSc and DLitt are awarded to MAs or MScs after 5 yrs. and to PhDs after 3 yrs.

**ORIENTAL STUDIES.** BOL and MOL degrees awarded after exam.

**FEES** (annual), Pre-univ. arts, comm., Rs. 105; pre-univ. sci., Rs. 117; BA, BCom, Rs. 117; BSc, Rs. 129; MB BS, Rs. 200; agric., Rs. 150; MA, BL, Rs. 133.

**ACADEMIC YEAR** June to May, 3 terms. Term dates: June 27 to Sept. 27, Oct. 30 to Dec. 23, Jan. 2 to May 31.

**LANGUAGE OF INSTRUCTION.** Hindi up to first degree level in arts, comm., sci. Engl. in other subjs. and stages.

**RESIDENCE** Students not living with their parents or guardians are required to live in coll. hostels or approved lodgings. L S Coll., Muzaffarpur (warden: M. Pratap), has 3 hostels, accomm. 350. Seat rent, etc., Rs. 80.

Students not accomm. in coll. hostels are provided with accomm. by students' residence citiee. in bldgs. taken on rent.

**NATIONAL CADET CORPS** Bihar battalions provide military trg. for students in the colls.; rifle trg. has recently been started in 15 colls.

**MEDICAL INSPECTION AND PHYSICAL EDUCATION.** Provision has been made for inspection by qualified med. officers of students in the colls. Phys. educn. is compulsory and the colls. have on their staffs qualified phys. instrs. There is provision for athletics in all colls.

**PUBLICATIONS.** *Calendar* (Vols. I & II), publ. every 2nd yr. (price Rs. 10); *Bihar Univ. Journal* (Vols. I & II).

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men . . .	23,151	—
Women . . .	970	—
Total . . .	24,121	—

**Distribution by Faculties.** Agric., 88; arts, 15,325; comm., 1321; engin., 304; law, 337; med., 604; sci., 6142.

*Included in the figures above are —*

Postgraduate students, 1063.

Students from other countries, 101 (all from Nepal).

**DEGREES AWARDED (1961).** BA hon., 438; BSc hon., 92; BCom hon., 29; BA, 1472; BSc, 398; BCom, 149; MA, 631; MSc, 113; MB BS, 105; BSc(Eag), 40; BL, 104; PhD, 4; MD, 13; MS, 21; DLitt, 2.

# UNIVERSITY OF BOMBAY\*

Founded 1857

Postal Address: University Road, Fort, Bombay 1, Maharashtra State, India

Cables and Telegrams: Bombay University, Bombay 1

Telephone: Bombay 2551 41-3

CHANCELLOR—H.E. THE GOVERNOR OF MAHARASHTRA (ex officio)

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—V R KHANOLKAR, BSc MD Lond, FNI

RECTOR—G D. PAREKH, MA

PROVOST—T. V. CHIDAMBARAN, BA Madr.

LIBRARIAN—D. N. MARSHALL, MA DipLib

## UNIVERSITY TEACHING STAFF

[† = Part-Time]

### Applied Psychology

Mukerji, N., MSc PhD Lond  
Kulkarni, T. R., MA  
Kale, S. V., AM PhD Cal., MA  
Jug, R. N., MA Lond, BSc BT MED  
Pratap, Mrs Satis, AM III., MA BT

Nandopurkar, S. S., PhD N. Carolina,  
MSc PhD Osw.  
(Chem Engin) Singhane Reader  
Navalkar, V. P., BE (Mech&Electr) Reader  
Altekar, V. A., DSc (Met) MS Colorado,  
BSc (Met) Bar (Metall. Engin) Reader  
Potnis, S. P., BSc (Tech) PhD  
(High Polymers) Sir Homi Mehta Reader  
Naiboli, G. A., BSc PhD

### Chemical Technology

Nahar, G. M., BA MSc MScTech  
PhD Manc., FRIC, FTI Medy Prof., Dir.  
Khorana, M. L., BS (Pharm) MS Mich  
(Pharmaceutical Chem) Prof  
Dargwala, E. H., PhD Manc., BSc  
MScTech (Textile Chem.) Prof.  
Tilak, B. D., DPhil DSc Osw., BSc (Tech)  
PhD (Dyeing Tech) Prof  
Joshi, M. V., BScTech Alaw., BE  
(Gen. Engin.) Prof.  
Rege, D. V., BSc (Tech) PhD  
(Food Technol.) Prof  
Pantambekar, S. V., BSc (Chem Engg) MS  
PhD II. (High Polymers) Prof  
Kane, J. G., MSc PhD IIS.  
(Technol. of Oils) Prof.  
(Colour Chem.) Reader  
Ghosh, B. N., PhD Lond, MSc  
(Org., Inorg. & Phys. Chem.) Reader  
Shah, K. H., PhD Lond, BSc BSc (Tech)  
PhD (Org., Inorg. & Phys. Chem.) Reader  
Boyce, S. F., DSc Ziu.  
(Pharmaceutical Chem.) Sir Durabhi  
Tata Reader  
Acharya, W. B., DrRerNat TH Aachen,  
BSc (Tech) PhD  
(Dyeing & Printing) Reader

Rajaram Rao, M., MB BS  
.....  
Rebello, D., PhD Pune, BSc (Tech)  
(Technol. of Oils) Sir Homi Mehta  
Reader  
Baschwal, Mrs. Malati R., MScPharm Tu  
BSc MSc (Tech) PhD (Pharm) Reader  
Pandya, S. B., BSc MSc (Tech) Nay  
Dhing T.H. Aachen (Chem Engin) Reader  
Chivare, M. R., BSc MSc (Tech)  
(Chem Engin) Singhane Lectr  
Sharma, M. M., BChemEng  
(Chem Engin) Temp Lectr  
Bavre, R. S., BE (Civil) Poona  
(Civil Engin.) Lectr.  
Subramanyam, P. R., BE (Mech&Electr)  
(Mech. & Electr. Engin.) Lectr.  
Aman, R. C., BE  
(Mech & Electr. Engin) Lectr  
Tambhane, D. V., BSc (Tech) PhD  
.....  
(Food Technol) Lectr  
Gore, T. S., BSc (Tech) PhD  
(Micro-Analysis) Lectr  
Inamdar, M. C., BSc (Tech) PhD  
(Pharmaceutics) Temp Lectr  
Sanghavi, M. M., BSc (Tech) PhD  
(Pharmacog.) Temp Lectr

\* Member of the Association of Universities of the British Commonwealth



## CONSTITUENT COLLEGES

[Note.—BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc. Postgrad. teaching is done and is conducted through the univ. depts. and through recognized univ. teachers in constituent colls. and postgrad. instns.]

## Science College

BOMBAY, *Institute of Science (Govt.)*, Fort (tel.: 251667). BSc, MSc, PhD (in sci.), DSc. Dir.—D. V. Bal, PhD, Law, MSc. 14 other Profs., 9 Lectrs., 24 Asst. Lectrs. and Res. Assist.

## Arts, Science and Professional Colleges

BOMBAY, *Bandra College of Commerce and Economics*, Bandra (tel.: 88244). Founded 1902. 1 Coen. Principal—P. N. Gadwani, BA BSc(Econ) Lond., BLitt Glas. 12 other Profs. and Lectrs.

BOMBAY, *Bombay College of Pharmacy*, Fort (tel.: 263556). DipPharm. Principal—K. S. Patel, BSc BPharm MS Oms. 4 other Lectrs.

BOMBAY, *Bombay Veterinary College (Govt.)*, Parel (telegram: Bovet, Bombay, tel.: 61180). BSc(Vet) Principal and Prof. of BACTERIOLOG.—D. T. Puri. Other Profs. PATHOLOG.—R. L. Purohit, BSc(Vet) MS; PARASITOL.—S. R. Rao, DSc, MS; S. R. Hattangadi, BVSc; NMO.—G. R. Mulkhivani, MS, OBLIST & OTHERZOL.—C. R. Sane, ANAT.—M. H. Nagesh, MS, PHARMACOL. & MYC. MED.—M. K. Joshi, BSc (Vet), ANIMAL HUSBANDRY.—S. G. Kshirsagar, MS, ANIMAL NUTRITION & DAIRY SCI.—D. R. Gokhale. 23 Asst. Profs., 13 Lectrs., 4 Res. Assist., 1 Asst. Pathologist, 2 Hosp. Surgeons, 1 Vet. Officer.

BOMBAY, *College of Commerce and Economics*, Dinshaw Wacha Rd., Bombay 1 (tel.: 211211). Founded 1960. BComs. Principal—H. C. Malhani, MA. 26 other Profs., Lectrs. and Tutors.

BOMBAY, *College of Nursing*, Bombay 8 (tel.: 77835). Founded 1960. 1st, 2nd and 3rd yr. BSc(Nursing) Principal—Mrs. Moti R. Inbhara 2 other Tutors.

BOMBAY, *D. G. Ruparel College*, Dadar West (tel.: 61433). MA, MSc. Principal—N. G. Suria, MA. 52 other Profs. and Lectrs.

BOMBAY, *Elphinstone College (Govt.)*, Fort (tel.: 254233). BSc, BA, MA, PhD (in arts). Principal—G. C. Banerjee, MA BLitt Oxon. Other Profs.: ENGL.—M. V. Rajadhyakshin, MA, Miss Homaj J. Shroff; MA Ocas; Miss Mehroo Jussawani, MA Ocas; HENCH.—M. L. Balse, MA PhD DLit Fort; J. M. Umrigar, MA GERMAN.—R. V. Paranjape, DPhil Munich, MA. SANSKRIT.—K. R. Potdar, MA DLit, N. J. Shende, MA PhD. MARATHI.—Miss S. N. Shende, MA PhD. GUJARATI.—B. B. Trivedi, MA HINDI.—L. P. Pandey, MA. HIST.—G. M. Moraes, DSc L. Straz, MA; S. N. Athavale, MA, A. M. Deshpande, MA. ECON.—B. R. Bantker, MA. PHILOS.—J. N. Chavli, MA DPhil Oxon.; J. D. Swamidasan, MA, V. M. Kulkarni, MA. PRVS.—Miss

Mama M. Palanjpe, PhD Lond, MSc CHM.—R. N. Meichant, MSc BIOL.—V. B. Tembe, MSc MATHS.—V. D. Godre, MSc. STATS.—S. R. Mehta, MSc. 36 other Lectrs., Demos and Tutors.

BOMBAY, *Gaut. Law College (Govt.)*, Fort (tel.: 241707). Founded 1855. LLB, LL.M. Principal—T. K. Tope, MA LLB. 27 other Profs. and Lectrs.

BOMBAY, *Grant Medical College (Govt.)*, Byculla (telegram: Medical; tel.: 70922). MB BS, BSc(Med), MSc(Med), MD (med., obstet. & gynaeol., pediatrics, pathol., pharmacol., TB), MS (surg., ENT, ophtalmol., orthopaedics), PhD (med., endocrinol., pathol.), DA, DPH, DPM, DMRD, DMRE, DYKD, MSc (micro), MSc (appl. biol.) Dean—D. V. Vinkar, MS, FRCS(Ed) Profs. MED.—T. H. Tulgale, MRCP PHARMACOL.—B. B. Gaitonde, MD MSc(Med) OBSTET. and GYNÆCOL.—Mrs. Juliet M. Desai, SOU/8, MD, FRCS, SURG.—D. S. C. Deodhar, MS, FRCS. OPHTHALMOL.—B. B. Velankar. ANÆSTHESIA.—V. B. Bhargava, DA, FFARCS. PEDIATRICS.—P. M. Udani, MD DCH, PRVS.—S. K. Dier, MB BS MSc. DIST.—K. L. Shoulik, MSc PhD. ANAT.—B. B. Sothia, MS. TOXICOLOG. MED.—M. B. Kandelkar, MB BS OPERATIVE SURG.—H. K. Doctor, FRCS. PREVENTIVE AND SOC. MED.—P. D. Palanjape, MB BS DHy. 8 Profs., 10 Emer. Profs., 4 Assoc. Profs., 3 Asst. Profs., 14 Lectrs., 13 Hon. Lectrs., 33 Jr. Lectrs., 2 Lectrs., 10 Jr. Lectrs., 27 Teachers, 62 Tutors, 2 Hon. Refractionists.

BOMBAY, *Jawah. Yash College*, Jogeshwari (Govt.) (tel.: 88088). BA, BSc. Principal—P. S. Rege, BSc(Econ) Lond. 53 other Profs. and Lectrs.

BOMBAY, *Jay Hind College and Banarasing Institute of Science*, 23-24 Backbay Reclamation, 'A' Road (tel.: 241256). BA, MA, BSc, MSc, Principal—T. M. Advani, MA LLB. Vice-Principal—G. G. Kewswarmani, MA LLB. Sr. Prof. in charge of Sci. Section: T. G. Khachandani, MSc. 90 other Profs., Lectrs. and Demos.

BOMBAY, *Khalaf College*, Matunga (tel.: 60334). BA, MA, BSc, MSc. Acgt. Principal—A. Moses, MA. 65 Profs., Lectrs. and Demos.

BOMBAY, *Kirti M Dongaysee College* (tel. 62172) BA, MA, BSc Principal—M. G. Bhate, BSc(Econ) Lond., MA

BOMBAY, *Kishinchand Chellaram College*, Dunsrow Wacha Rd., Churchgate (tel. 245344) MA, MSc Founder Principal—K. M. Kundnani; MSc 47 other Profs., Lectrs and Tutors

BOMBAY, *Kishinchand Chellaram Law College*, Dunsrow Wacha Rd., Churchgate (tel. 245761) Law Prelim., LLB Principal—K. Gopaldas, BA LLB 27 other Profs and Lectrs.

BOMBAY, *K. J. Somaya College*, Ghatkopar, Bombay 77 (tel. 675551) IA, BSc Founded 1959 Principal—R. D. Adatia, MSc PhD 71 other Profs., Lectrs and Tutors

BOMBAY, *M. M. College of Arts and M. D. Chaudhari Institute of Science*, Vile Parle (West). Founded 1962 BA, BSc. Principal—A. B. Yajnik, MA. 22 other Profs and Lectrs

BOMBAY, *Megh Mathradas College of Arts*, Chowpatty, Bombay 7 (telegrams Bhavdya; tel.: 77451), and *Narandas Mansardas Institute of Science*, Nav Gujarat, Andheri (tel. 86110) MA, MSc, PhD (in arts & sci.) Principal—B. M. Naik, MA 55 other Profs., Lectrs and Tutors.

BOMBAY, *Nair Hospital Dental College* (Munic.), Bombay 8 (telegrams: Dean Dento; tel.: 77161-g). BDS, MDS. Dean—H. D. Merchant, DMD Bown 77 other Profs., Lectrs. and Demts

BOMBAY, *Narandas Mansardas Institute of Science*, Andheri. See Bombay, *Megh Mathradas College of Arts*, above.

BOMBAY, *New Law College* (tel.: 62017). Founded 1954 LLB Principal—D. R. Kothare, BA LLB 6 other Lectrs

BOMBAY, *Parle College*, Vile Parle (tel.: 87004). Principal—C. B. Joshi, BA Camb., MA. 6 other Profs., 17 Lectrs., 5 Lectrs.

BOMBAY, *Parle College of Commerce*, Dvnt Rd., Vile Parle, Bombay 57 (tel.: 87004). Founded 1960 BCom Principal—M. D. Lamaye, MCom. 22 other Profs. and Lectrs

BOMBAY, *Ramnarayan Ruia College*, Matunga (tel.: 62258). BA, BSc, DipEd Principal and Prof. of Zool.—N. N. Murti, BA MAh, DIC, PhD Lond Profs.: MATHS.—B. Y. Oke, MSc Camb.; K. V. Nayak, MA Indus. phys.—R. D. Godbole, SM M I T, MSc; R. D. Gupta, MSc, N. D. Sengupta, MSc Calc chem.—B. V. Mohale, MSc, R. A. Kulkarni, MSc PhD, GUJARATI—D. P. Parikh, MA. MARATHI—R. S. Walmbe, MA BT PhD SANSK.—R. R. Deshpande, MA. URDU—V. G. Hataikar, DLitt Paris, MA PhD. HINDI—J. C. Jain, MA Bau, PhD EDUC.—R. W. Joshi, BSc BT, N. D. Nandurkar, MA BT MED HIST.—V. D. Rao, MA LLB PhD; M. S. Agaskar, MA ECON.—Miss C. K. Dalaya, MA ENGL.—V. H. Kulkarni, MA, V. M. Pranjape, MA; V. T. Yardi, MA PHILOS.—N. V. Joshi, MA DLitt Bau, L. K.

Araskar, MA 201.—V. S. Rao, BA And, DSc; Mrs. K. Gupta, MSc. STATS.—C. Y. Ranshik, MA Mod. 34 other Lectrs.

BOMBAY, *R. A. Pedai College of Commerce and Economics*, Lakhmesh Napeo Rd., Matunga (cables Pedecomcol, tel. 66868) BCom, MCom. Principal and Prof. of ECON.—L. N. Welankar, BSc(Econ) Lond Vice-Principal—G. P. Palekar, MCom, P. M. Tale, MA Other Profs: ECON.—B. G. Bapat, MA, Mrs. Nalini Pandit, MA, M. V. S. Rao, MA LLB COM—G. L. Maini, MCom; S. A. Shetkar, BSc MA Agric, MCom. ACCTY.—V. B. Kirtane, BSc LLB ENGL.—J. G. Petha, MA BT STATS.—U. U. Bhat, MA Mod. MERCANTILE LAW—P. G. Khes, BA LLB STATS.—P. N. Phutane, MSc 13 other Lectrs and 7 Tutors

BOMBAY, *Rishi Dayaram and Seth Harnani National College and Seth Wansanull Awanull Science College*, Bandra (tel.: 88244) BA, MA, BSc, MSc, PhD (in sci.). Principal—L. H. Ajwani, MA 85 other Teachers

BOMBAY, *St. Xavier's College*, Cruickshank Rd., Bombay 1 (tel. 262847). BA, BSc, MA, MSc, PhD (arts and sci.). Principal and Prof. of POL.—Rev. E. D'Cruz, MA Oxon. & Bon., LicPhil& Theol Greg. Other Profs: ENGL.—M. F. Colcen, MA LLB. MATHS. and STATS.—B. S. Gai, MA, FIA 200L.—D. M. Murchu, MSc, FLS JUST.—W. Coelho, MA. SANSK.—Rev. A. Estellei, MA DPhil Bel, PhD Greg. GEOL.—R. N. Sukheswale, BSc PhD. 207.—Rev. H. Santappa, PhD Greg, DIC, BSc PhD Lond. ISLAMIC CULTURE and URDU—N. S. Gorekar, MA ANC INDIAN CULTURE—L. B. Keny, PhD. LATIN and GREK—Rev. J. Humbert, BA Lond CHIM.—Rev. J. M. Corbella, MSc M I T, DL Dub, BAPhil BEngl Baresfow SOCIOL.—Rev. P. Gisberti, PhD Greg & St. Louis, STL Dub., BA Lond, LicPhil&Lit Mdwica. ECON.—Rev. J. Sanmarti, BSc(Econ) PhD Lond HENES.—S. S. Naithani, MA ALID MARATHI—M. V. Petha, MA. GUJARATI—R. C. Shah, MA PhD. PHILOS.—Rev. F. D. D'Souza, PhD DD Greg. MICROBIOL.—Yvonne M. Freitas, MSc PhD. PSYCHOL.—Rev. J. M. Fuster, LicPhil LicTheol MA(Psy) C. U. A., PhD. HEBREW—J. Grossman, BA Jerusalem. PHYS.—Rev. J. V. Bonet, LicPhil Greg, MSc PhD St Louis ANESTH and PARLAW—H. K. Mirza, MA PhD Lond. ARABIC—H. S. Hamdoddan, MA. PERSIAN—M. K. Kermani, MA. PALI—Mrs. Minaki V. Talm, MA PhD. 17 other Profs., 18 Lectrs., 4 Tutors, 32 Demts., 24 Fellows

BOMBAY, *St. Xavier's Institute of Education* (Society of Jesus), Fort (tel.: 247933). DipEd, BED, MED, PhD. Principal—Rev. A. Solagran, PhD DD Rome, MA Dub. 2 other Profs., 14 Lectrs and 2 Tutors

BOMBAY, *Secondary Training College* (Govt.), Cruickshank Rd. (tel.: 26-2050) BED, MED, PhD. Principal—S. A. Rauf, MA BT. 10 other Profs and Lectrs.

BOMBAY, *Seth G S Medical College* (Munic.),  
Parel (telegrams: Gosumec; tel.: 60497) MB  
BS, BSc(Med), MD, MS, PhD. Dean—S. V.  
Joglekar, MS. Asst. Deans—R. B. Redkar, BSc  
MB BS DA. Profs. & Hds. of Depts.—ANAL.—  
K. D. Desai, MB BS MSc MSc(Med). MED.—  
P. Raghavani, MD PHARMACOL.—U. K. Sheth,  
MD BSc PHYSIOL.—A. C. Duarte Monteiro,  
MB BS MSc PATHOL. AND BACTERIOL.—N. M.  
Parandekar, MD. SURG.—P. K. Sen, MS, FACS  
HONCHIM.—R. K. Anisara, BA MSc PhD. PATH.  
AND SOC. MED.—D. N. Pat, MB BS DMPH. 8  
Asst. Profs., 8 Lectrs., 4 Tutors, 60 Hon. Lectrs  
and Asst. Hon. Lectrs

BOMBAY, *Siddharth College of Arts and Science*,  
Anand Bhavan, Fort (tel.: 253868) BA, BSc,  
MA, MSc, Ph.D. Principal—H. R. Kaulia, MA  
PhD Vice-Principal—G. C. Saldanha, MA  
LLB (Adv.), J. V. Deshpande, MSc PhD (Sci.).  
61 other Profs and Lectrs

BOMBAY, *Siddharth College of Commerce and  
Economics*, Anand Bhavan, Fort (tel.: 253868).  
BCom, MCom, Principal—J. C. Bahl, BA Pory.  
MCom. 4 Profs., 2 Profs. 7, 10 Lectrs., 6 Lectrs.,  
1 Tutor, 7 Tutors

BOMBAY, *Siddharth College of Law*, Anand  
Bhavan, Fort (tel.: 253868) LLB, Principal—  
P. T. Bhatia, BA LLB. 17 other Profs

BOMBAY, *Sir Chhatrapati Shahu Maharaj  
Dental College* (Govt.), Byculla (tel.: 75454).  
BDS, Principal—K. L. Shourie, BSc MB BS  
MDS Pory, MSc Med, PhD. Asst. Teachers:  
ECONOMICS AND ORAL SURG.—H. L. Maitra, BSc,  
MB BS, FDSRCS; C. T. Chudgar, LDSR,  
S. S. Khela, BDS Pory; OPERATIVE DENT.—  
M. K. Sanjana, BDS Lond, BA BSc, Kumbhar  
Chand, DDS MS; V. Subramanian, BSc BDS.  
ORTHODONTIA—P. Prakash, BDS Pory, MS Tufts;  
A. C. Henriques, DDS MSc DSc(Dent) Penn  
UNIVERSITY.—T. M. Udani, MScD BDS; P. P.  
Souza-Cordeiro, BDS MS Tufts; L. De Souza,  
BSc BDS. DENTAL ANAL. AND DENTAL HYGIEN.—  
C. T. Chudgar, LDSR. DENTAL PATHOL. AND RADIO-  
LOGY.—A. M. Maheshwari, BSc BDS. MAXILLO-  
FACIAL SURG.—C. T. Chudgar, LDSR. PERIODO-  
NTIC.—K. L. Shourie, BSc MB BS MDS Pory,  
MSc Med, PhD. Asst. Hds. V. N. Bhargava, MS  
BSc BDS; G. R. Shankarwar, MS BDS. 11 Jr.  
Lectrs., 13 Clin. Tutors, 2 Mechanics.

BOMBAY, *Sir J. J. College of Architecture*,  
Dadaabhai Naoroji Rd., Bombay (tel.: 264649)  
Principal—W. J. de Lima. 3 Profs. of Archit.,  
5 Lectrs., 10 Visiting Lectrs., 1 Asst. Lectr., 10  
Studio Assts., 1 Workshop Instr., 3 Demos.

BOMBAY, *Sophia College for Women*, Bhulabhai  
Desai Rd. (telegrams: Sophastell, Bombay; tel.:  
40423). Under control of Society for  
Higher Educn. of Women in India. BA, MA,  
BSc. Principal—Rev. Mother W. Ward, BA  
Lond, MA Oxon. 39 other Profs. and Lectrs.

BOMBAY, *South Indian Educational Society's  
College of Arts & Science*, Bion (tel. 67390)  
Founded 1906. BA (spec.), BA (gen.), BSc  
Principal—A. B. Shah, MSc Pory & Bion. Vice-  
Principal (art. side)—R. Joshi, MA. Vice-  
Principal (sci. side)—G. R. Gogte, PhD DSc  
45 other Profs., Lectrs and Tutors

BOMBAY, *Sydenham College of Commerce and  
Economics* (Govt.), 'B' Road, Churchgate Re-  
clamation (tel.: 242899) BCom, MCom, PhD  
(in econ.) Principal—K. T. Merchant,  
BSc(Econ) Lond, MA LLB. Other Profs.:  
ECON.—G. L. Abhyankar, MA COME.—H. S.  
Bhat, PhD Lond, MCom. ACCOUNTING—S. N.  
N. Dongre, MCom, FIA. 28 other Lectrs.  
and Instrs

BOMBAY, *Tatyasaheb National Medical College*  
(Munic.), Byculla (telegrams: Narmcol; tel.:  
77161-65). MB BS, MS, MD, MSc(Med),  
Dent—L. Monteiro, MD. 84 other Teachers

BOMBAY, *V. J. Technical Institute*, Matunga  
(telegrams: Vjntech, tel.: 60921) BTech,  
BE (civil, elect., mech.), ME (civil, elect.,  
mech., auto.), Dipl. in Indust. Engin. Principal,  
Sec. and Prof. of TEXTILE DESIGN.—R. K. Mody,  
MSc(Tech) Manc. Other Profs.: ELECTRIC ENGIN.—  
M. K. Dalal, DIC, BSc(Eng) MSc Lond. CIVIL  
ENGIN.—S. J. Anandji, BE MS(SanEngin) Manc.  
MA. STRUCT. ENGIN.—B. N. Thadani, BE MECH.  
ENGIN.—H. C. Patel, MTech Kharagpur. AUTO  
ENGIN.—L. M. Rajpal, DIC, BE. APPL. CHEM.—  
G. G. Kalthod, PhD Lond, DSc BSc(Tech) 16  
other Asst. Profs. and over 75 Lectrs and Tutors

BOMBAY, *Wilson College*, Chhatrapati (tel.:  
45195) BA, BSc, MA, MSc, Ph.D. Principal—  
J. W. Allen, MSc Ph.D. Profs.: CHEM.—P. M.  
Berve, MSc. BIOCHEM.—J. W. Allen, MD MSc  
PhD. PHYS.—K. N. Mathew, MA. LING.—J. C.  
Dazaveila, MA. PHYSICS.—B. M. Mehta, MA  
GUJARATI.—P. K. Shah, MA. HINDI.—S. N.  
Sharma, MA. MARATHI.—G. B. Gramapadhye,  
BA PhD. HAVY.—G. N. Nair, MSc. PHYSICS  
—S. Chakraborty, MA. PHYS.—V. D. Dabholkar,  
BA MSc. ASSTR.—S. N. Gajendragadkar, MA  
PhD. BOT.—J. P. Kirtal, MSc Nag., PhD Camb  
2002.—S. P. Karmarkar, MSc PhD. ECON.—  
T. B. Desai, MA. SOCIO.—Mrs. G. Nandanha,  
MA

## GENERAL INFORMATION

Bombay Univ. was establd. in 1857, but until  
the passing of the Indian Universities Act of 1904,  
the function of this univ., in common with that of  
other univs. in India, was limited to examining  
candidates and arranging for the courses of study

which led up to its degrees. Under the act of  
1904, it acquired the right of organizing teaching,  
arranging for univ. extension lectures, and of pub-  
lishing such works as were necessary for the direct  
educnl. work it was to carry on. Under the univ.

act of 1928 the univ. went on to arrange for postgrad instruction and res. through its own depts. as well as through the teachers in affiliated colls and recog postgrad instrns., recog as postgrad. teachers of the univ. As far as undergrad. educn. was concerned, the univ. was an affiliating univ. Before the estab. of the Univ of Sind and of regional univs in Bombay state, the jurisdiction of Bombay Univ. extended over the whole of the former province of Bombay and Sind. The univ.'s jurisdiction is now confined to the limits of greater Bombay.

With the estab. of other univs as a measure in the decentralization and reorganization of univ. educn. in the then Bombay state, the univ. was reconstituted by the Bombay Univ. Act, 1953. Its special features were: (1) reconstitution of the univ. as a teaching and federal univ.—all affiliated colls became constituent colls.; (2) reduction in number of elections; (3) strengthening of academic element in senate, academic council and bds of studies; (4) creation of bds of univ. teaching, predominantly academic, empowered to control post-inter. and postgrad. instrcn. in constituent colls and recog instrns. and to make recommendations to syndicate for conducting such instrcn. in univ. colls and instrns.; (5) extension of powers of the univ. to include such activities as extra-mural teaching, univ. extension courses, trg. of students for competitive exams. for service under union and state govts., estab. of an employment bureau, students' unions and bd of students' welfare, and provision for recognition of instrns. of res. and specialized studies by syndicate.

**CONSTITUTION.** The senate is the governing body of the univ. The executive govt. is vested in the syndicate. The other authorities of the univ. are the academic council, the facs, the bds. of univ. teaching and the bds. of studies in the various facs.

**INCOME** (1960-61) Rs 5,742,545 (gen fund only).

**FACULTIES AND DEANS.** *Arts* Prof V. G. Hattalakar, *convn.*; Prof G. L. Mehta, *dean.*, Dr. C. T. Chodgar; *lms* M. P. Amin, *med* Dr. K. C. Badhwal, *sci.* A. N. Nanavati; *technol.* Prof. P. W. Dharap.

**LIBRARIES.** Main univ. lib.—more than 150,000 vols., about 1500 MSS in Arabic, Persian and Urdu, and about 6000 in Sansk. *Dept. libraries*—univ. depts. of econ., pol. & social.—approx. 53,821 vols., 526 theses in MSS., about 204 journals; univ. dept. of chem. technol.—more than 10,000 vols in Engl and German, about 200 vols., 38 journals; univ. dept of stats.—approx. 5158 vols., 45 journals; univ. dept of appl. psychol.—2843 vols., 73 journals; univ. dept of law—2044 vols., 70 journals; section in bus. management—2624 vols., 62 journals.

**HOSPITALS AND LABS.** RECOGNIZED BY THE UNIV. Hosps. and labs. attached in Grant Medical Coll.; Cama and Allbless hosps.;

hosps. and labs. associated with Seth Gordhandas Sunderdas Med. Coll.; Sir Cusumabhoj Ebrahim Memorial Dental Hosp., Byculla, Bom.; Haffkine Inst., Parel, Bom.; Bai Yashwanthi Nani Hosp. attached to Topiwala National Med. Coll.

**ADMISSION.** The min. qualif. for admission to courses in the facs. of arts and sci. is the passing of the entrance exam., the secondary sch. cert. exam. of the SSC Exam Bd., Maharashtra state (subject to certain conditions), the matric exam. (subject to certain conditions) of any statutory univ. in the Indian union, or an exam. recog. as equivalent to the entrance exam. (A list of recog. exams., with conditions subject to which they are recog., is pubd. in the *Handbook, Pt. II*).

The following overseas qualifs are recog. for the purpose of entrance: Oxford and Cambridge sch. cert.; matric. cert. of South African Jt. Matric Bd. (if exam. passed with Engl., an additional lang., hist. or geog., maths. and 1 other subject, or if passed in any 3 or more subjs. but with credits in at least 4 of them at one and the same exam.); G.C.E. (ordinary level) of Cambridge and London univs. (with similar conditions); London Univ. matric. cert. (if exam. passed in Engl., an addnl lang., hist. or geog., maths. and 1 other subject, or if passed in 1st or and div.); Rangoon Univ. matric. cert.; G.C.E. (advanced level) of Cambridge and London univs. is considered as equivalent to the F.Y. exam. of this univ., provided the subjs. in which the candidate passes the exam. are approved by the univ. for the purpose; Cambridge and Oxford Overseas Higher Sch. Cert. exams. are equivalent to the univ. arts and sci. exams. in this univ. subject to certain conditions. Overseas qualifs not incl. in the regns. will be considered on their merits.

**ADMISSION TO UNIV. COURSES OF STUDY FOR THE bachelor's degrees in engin. and in med.** is granted only to those who have passed the univ. inter. sci. exam. or other equivalent exam. of a recognized univ. or bd in specified groups of subjects. The min. qualif. for admission to the LLB degree-course is the passing of the inter. arts, inter. sci. or inter. econm. exam. or a degree exam. in arts, sci. or econm. of the univ. or equivalent exams. of another univ. Admission to courses of study for higher degrees is granted, under certain conditions, to grads. of this, or of any other recog. univ.

**FIRST DEGREE:** 2 yrs.—BSc(Tech) (food technol.; technol. of intermediates & dyes, technol. of oils, fats & waxes; technol. of pharmaceuticals & fine chemicals, technol. of pigments, paints & varnishes, technol. of plastics; textile chem.); 2½ yrs.—BPharm.; 3 yrs.—BSc (civil, electr., mech.), LLB (if taken from inter.); 4 yrs.—BA (general), BA (spec.), BSc, BVSc, BCom, BChemEng, BText, BUS; 5 yrs.—BArch; 4½ yrs. plus 1 yr. of internship—MB BS. Also BSc(Agr)—course prescribed by univ. but at present no coll. affiliated to the univ. for this course.

**Note.**—The univ. has not accepted the principle of introducing the 3-yr. degree course recommended by the Secondary Educn. Commission.

**LECTURE HOURS AND PT-TIME INSTRUCTION** The univ. has decided to restrict lecture hours of arts and sci. colls. to 9 a.m. to 5.30 p.m. from 1962. Beginning with 1st-yr. classes in June 1962 the restriction will progressively be extended to students of subsequent yrs. until by June 1965 it will affect all classes. Instead of the non-collegiate courses begun in 1960, the univ. has also decided to introduce arrangements by which, in addn. to regular students, constituent colls. may enrol arts students on a pt-time instruction basis with morning or evening classes (course is 1 yr.) times that for full-time students.

**HIGHER DEGREES.** 1 yr.—BEd, MEd, DHy, 2 yrs.—LLB (if taken after BA, BSc or BCom), MA, MSc, MSc(Agr), MSc(Med), MSc(Tech), MTech, ME (auto, civil, electr., mech.), MDS, MVSu, MPhilim, 3 yrs.—LLM, MD, MS. Also PhD, DLit, DSc.

#### HONORARY DEGREES. LL.D.

**DIPLOMAS** Educn, 1 yr., librarianship, 1 yr. for grads., 2 yrs. for others, indust. management, bus. management, pharm., 2 yrs., labour welfare, 2 yrs. postgrad. Postgrad. med. dipls., DA, DMRE, DV&D (general & dermatol.), DPM, DMILT, 1 yr., DPM (psychol. med.), 1½ yrs., DPH, 2 yrs.

**OTHER COURSES.** The univ. conducts classes to train grads. for the L.A.S. and other competitive exams. held by the Union Public Service Commission, New Delhi. Admission to these classes is open to grads. of all Indian univs., but in the case of grads. of univs. outside Maharashtra state, applicants can be considered only from those who are at present studying in this univ.

**RESEARCH.** There are ample facilities for res. Teachers from affiliated colls. where facilities for res. are available, are recognized for supervising students working for univ. res. degrees. The following institutions are recog. by the univ. as postgrad. res. instns. and certain members of their staffs have been recog. as postgrad. teachers of the univ.: Bharatya Vidyya Bhawan, Bombay 7, Haffkine Inst., Bombay 12, Indian Cancer Res. Centre, Bombay 12, Marathi Sanshodhan Mandal, Marathi Grantha Sanghalaya, Bombay 2; Tata Inst. of Fundamental Res., Bombay 1; Therapeuticall Marine Biol. Res. Stn., Bombay 2; Argonne-Indiam Urdu Res. Inst., Bombay 1; Technol. Lab., Indian Central Cotton Ctr., Bombay 10, Bombay Natural Hist. Soc., Bombay, Naval Chem. & Metall. Lab., Naval Dockyard, Bombay; Atomic Energy Establt., Trombay, Bombay, Bombay Labour Inst., Bombay 14. Provision has been made for admitting to exams for res. degrees grads. of the univ. trained in specialized res. insts. outside the univ. area.

The **UNIVERSITY'S INFORMATION BUREAU** collects and furnishes information to students regarding Indian and foreign univs. and other educn. instns., and helps grads. to secure admission to univs., etc., in foreign countries.

**FEES.** Fees for tuition and/or guidance in constituent colls., master's and PhD degrees in arts (except in psychol. and geog.), comm., LLM, ME, MSc (in maths. only), Rs. 100 per term of 6 mos.; master's degree in psychol. and geog. in arts and in geog. in sci., Rs. 120 per term of 6 mos.; master's and PhD degrees in sci. (except in geog.), PhD in engn., MTech, ME(Auto), Rs. 150 per term of 6 mos., MD, MS, DPH, DA, DV&D, MSc(Med), PhD(Med), DPM, MDS, DMAR, DMRT, Rs. 50 per term of 3 mos., DLW Rs. 100 per term of 6 mos., DLM Rs. 200 per term of 6 mos. Fees for univ. postgrad. courses in the depts. of econ., pol. & social, Rs. 110 per term. Fees in the univ. dept. of chem. technol. for BSc(Tech) and BChemEng courses, Rs. 200 per term. Fees for res. students, Rs. 100 per term. Dept. of stats., Rs. 125 per term.

**ACADEMIC YEAR.** June to April, a terms. Term dates (approx.): June 20 to Oct. 15, Nov. 11 to March 15 (mod & dent, April 15). Christmas break (all facs), Dec. 24 to Jan. 6.

#### USUAL LANGUAGE OF INSTRUCTION. English.

**EXTRA-MURAL EDUCATION** Univ. extension courses of two types have been started: 1. one conducted in Marathi) mainly for working class students such as mill and factory workers, the other (conducted in English) to promote knowledge, culture and the arts among people who have not had the benefit of univ. educn.

**STUDENT RESIDENCES.** Univ. Hostel, Matunga (tel. 62423), fee Rs. 100 to 125 per term of 6 mos.; Univ. Hostel, Bombay Reclamation (tel. 343580), fees Rs. 90 to 110 per term of 6 mos.; accomm. for 215 men students. Individual colls. are also required to provide, by the terms of their affiliation, hostel accomm. for a fair number of their students.

**NATIONAL CADRE CORPS (SC DIVISION).** Two bns. of the ar. div. of the N.C.C. are attached to the univ., as are also three other N.C.C. units: engn. platoon; battery unit, med. unit, air squadron, naval unit; women's division unit.

**STUDENT ATHLETIC FACILITIES.** The univ. bd. of sports organizes the sports activities of the univ. Inter-collegiate sports are arranged every yr. Individual colls. also provide facilities for indoor and outdoor games.

**STUDENTS' UNIONS.** There is a students' union in the univ. depts. of econ., sociol., pol. & stats. The students of the univ. dept. of chem. technol. have formed the technological assoc. Colls. also have students' unions.

**PUBLICATIONS.** *Univ. Handbook, Pt. I* (names and names of members of various univ. authorities), annual, Rs. 0.50; *Univ. Handbook, Pt. II*



(statutes, ordinances and regns, including exam syllabuses), 1955 edn., Rs. 8; *Univ. Handbook, Pt. III* (text-books), 1958 edn., Rs. 3.50, *Univ. Handbook, Pt. IV* (regns. relating to scholops., etc.), Rs. 1; *Calendar* (lists of grads. and successful exam. candidates), latest edn., 1958-59, Rs. 6; *Journal of Univ. of Bombay*, 5 times p.a., annual sub Rs. 12, *Univ. Econ. and Sociol. Soc.* (Seminar publica. *From School to College, Bombay Univ. Seminars, Private & Public Series, Endowment Lectures* (law, philological and Thakkar Vasanji) Special publica. in connexion with Univ. centenary,

*A History of the Univ. of Bombay, 1857-1957*, by S. R. Dongeritay (then rector of the Univ.), *A Centenary Souvenir* Other publica. *Reorganisation of Undergraduate Teaching in Arts*, by Prof. G. D. Parikh (rector of Univ.) In addn. to the Univ. journal, the Univ. publica. section publishes text-books, res. work done by students and teachers of the Univ. & its colls., translations of classics, etc.

The UNIVERSITY PRESS, establd. in 1948, carries out most of the printing work of the Univ.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, August 1961

	Full-Time	Part-Time
Men	38,476	—
Women	13,662	—
Total	52,138	—

Distribution by Faculties: Arts, 20,432; comm., 5570; dent., 387; law, 3875; med., 2180; sci., 17,055; technical, 1539 Total: 52,138

Included in the figures above are:—

Intermediate students, 13,934

Postgraduate students, 4427

New admissions, 15,734.

Students from other countries (1960-61), 699. (Countries from which largest numbers came:

Africa, 496; Goa, 70; Malaya, 22; Ceylon, 12; Pakistan, 10)

DIPLOMAS AWARDED (1960-61): Arts: BA spec., 2360; BA (gen.), 27; MA, 530; BEd, 192; MED, 21; PhD (arts), 21 Comm: BCom, 845; MCom, 131; PhD (comm.), 1 Dent.: BDS, 73. MDS, 3. Law: LL.B., 909; LL.M., 23 Med.: BSc(Med), 1; MSc(Med), 4; MB BS, 264; MD, 37; MS, 41 Sci: BSc, 1243; MSc, 254; PhD (sci), 42 Technical: BE, 198; ME, 7; ME(Auto), 4; BVSc, 61; BChemEngg, 22; BText, 4; MText, 3; BSc(Tech), 106; MSc(Tech), 17; BArch, 89; BPharm, 7; PhD (technical), 11

DIPLOMAS AWARDED (1960-61): DipEd, 213; DipLab, 11; DBM, 31; DIM, 11; DLW, 14; DPH, 9; DPM, 4; DMRE, 1; DA, 75; DV&D, 5; DipPharm, 11



**Chemistry, Applied**

Nyogy, S. C., DSc	Su R. B. Ghose Prof
Chakravarti, M. M., PhD	Reader, Hd of Dept
Chaudhuri, P. K., MSc DPhil	Reader
Lahiri, D., PhD	Reader
Roy, K. L., MSc DPhil	Reader
Aditya, S., MSc PhD	Reader
Roy, S. C., DSc	Reader
Bose, S. K., MSc DPhil	Lectr
Mukherjee, S., DSc	Lectr
Sen, D., DiRerNat	Lectr
Saha, A., MSc DPhil	Lectr
Pathak, B., MSc DPhil	Lectr
Bhattacharya, G. C., BME	Lectr
Ghosal, A., MSc	Lectr
Ghosh, J. J., MSc DPhil	Lectr
Chakrabarty, B. N., MSc	Lectr
Adhikari, M., MSc DPhil	Lectr
9 Hon Lectrs.	

**Chemistry, Pure**

Ghosh, B. N., DSc	Su T. N. Palit Prof, Hd. of Dept
Chakravarti, D., DSc, FNI	
Chatterjee, A., DSc, FNI	Su R. B. Ghose Prof
Dutta, N. K., DSc	G. P. Singh Prof
Basu, S., DSc	Reader
Bhattacharya, K. C., DSc	Reader
Sen, K., MSc DPhil	Lectr
Nanda, S. K., MSc DPhil	Lectr
Nasipuri, D., MSc DPhil	Lectr
Ray, N., DSc	Lectr
Robtge, K. K., MSc DPhil	Lectr
Chandra, A. K., MSc DPhil	Lectr
Ghosh, N., MSc	Lectr
4 Hon Lectrs	

**Commerce**

Dam, M., MA	Prof
Nandy, A. K., BCom	Reader
Ray, K., MSc Lond	Lectr
Sanyal, M., MA	Lectr
Dasgupta, A., MA DPhil	Lectr
Mukherjee, A. K., MA	Lectr
Majumdar, H., MSc BL, FCA	Lectr
Saha, G., BCom, FSA	Lectr
Banerjee, S. N., MA	Lectr
Sengupta, S., MA	Lectr
Sengupta, B. K., MA	Lectr
Chatterjee, S. S., MA	Lectr
Ghosh, B. B., MA PhD Lond	Lectr
Chatterjee, D. P., BCom, FSAA	Lectr
Majumdar, J. M., MA	Lectr
Sengupta, R. N., MA BCom, FCIS	Lectr
Dhar, B., MA LLB DPhil	Lectr
Banerjee, D. K., MCom LLB, CA	Lectr
Banerjee, M., MA LLB	Lectr
Ghosh, S., MA DPhil	Lectr
Dasgupta, N., MA(Com)	Lectr
Banerjee, A. G., MA, CA	Lectr
Dutta, D. B., MA	Lectr

Bhattacharyya, T., MA	Lectr
Sengupta, S., BSc Lond	Lectr
Dasgupta, L. R., MA(Com)	Lectr
Ganguly, S. K., MA	Lectr

**Comparative Philology**

Sen, S., MA PhD	G. P. Singh Prof, Hd. of Dept
Sanha Ray, P., MA	Reader
Basu, D., MA	Lectr
Dutta, C., MA	Lectr

**Economics**

Basu, S. K., MA PhD Lond	Prof of Indust Finance, Hd of Dept
Sen, S. N., MA PhD	Prof
Dutta, A. K., MA	Reader
Ghosh, A., MA	Reader
Bhattacharyya, S. K., MA	Reader
Mitra, J. K., MA	Lectr
Dutta, R., MA	Lectr
Bardhan, P. K., MA	Lectr
Agarwal, R., MA	Lectr
Ghosh, P. C., MA	Lectr
Bhattacharya, A. K., MA	Lectr
Roy, P. K., MA	Lectr
Bhattacharyya, D. C., MA	Lectr
Chakrabarti, S. K., MA	Lectr
1 Hon Lectr.	

**Education**

Mookerjee, K. K., MA BT DipSpEng	Prof.
Gupta, K. S., MA Edu & Calc, BT	Reader, Hd of Dept
Kaput, G. B., MSc DPhil	Lectr
Ghosh, M. C., MSc BT	Lectr
Chakrabarty, J. C., MA Dacca & Calc, BT	Lectr
Dutta, S. C., MA DipEd Lond, BT	Lectr
Bhattacharyya, B., MSc Edu, BT	Lectr
Ganguly, J., MA BT	Lectr
Banerjee, S., MSc BT	Lectr
Sanha, N. C., MA DipEd	Lectr
De, J. N., MB DTM&H DPH	Lectr
Bhattacharyya, B., MA BT	Lectr
Tripathi, U., MA BT	Lectr
4 Hon Lectrs	

**English**

Bose, A., DPhil Oxa., MA	Su Gorodard Banerjee Prof, Hd. of Dept.
Sen, S., MLitt Camb., MA PhD	Reader
Dasgupta, R. K., MA DPhil	Reader
Lahiri, K. C., MA	Lectr
Ghosh, P. C., MA	Lectr
Sen, D., MA	Lectr
Bhattacharyya, J., MA	Lectr
Sanha, N., MA	Lectr
Das, S. K., MA PhD	Lectr
Ganguly, A., MA	Lectr
Mukherjee, A., MA	Lectr
3 Hon Lectrs	

**French**

Pouliquen, A  
Chandra, N N, MA  
Karmakar, K C, MA

Lectr.  
†Lectr  
†Lectr

**Geography**

Chatterjee, S. P, MSc PhD TD DLitt,  
FGS Prof, Hd of Dept  
Bagchi, K G, MSc Reader  
Lahiri, R, MSc PhD Reader  
Guha, M., MA PhD Lectr  
Mitra, D R, MA Lectr  
Mukherjee, B N, MSc PhD Lectr  
Set, B, BE PhD Lectr

Reader  
Reader  
Lectr  
Lectr  
Lectr  
Lectr

**Geology**

Chatterjee, N. N, MSc Prof, Hd. of Dept  
Chaudhuri, A., MSc Reader  
Roychoudhuri, S K, MSc PhD Reader  
Sen, S N, DSc Lectr  
Dey, A., MSc PhD Lectr  
Banerjee, I., MSc Lectr  
Mukherjee, S., MSc Lectr  
Sanyal, B. K, MSc †Lectr  
Banerjee, S K, MSc †Lectr  
Bhattacharyya, B, MSc †Lectr  
1 Hon Lectr

**Hindi**

Lodha, K. M, MA Reader, Hd. of Dept  
Sastri, V K, MA Lectr  
Singh, P N, MA Lectr  
Srivastava, D., MA DPhil Lectr.  
Agarwal, T. N, MA DPhil †Lectr

**History**

Sinha, N K, MA PhD  
Sen, S., BA Lond, DPhil DLitt  
Sen, J, MA Reader  
Mukherjee, P C., BA Lond, PhD Lectr  
Choudhuri, B, MA DPhil Lectr  
Mukherjee, N., MA DPhil Lectr  
Banerjee, A. C, MA PhD †Lectr  
Mitra, R C., MA PhD †Lectr  
Mukherjee, T K, MA †Lectr  
Ray, N, MA †Lectr  
Ghosh, D K, MA DPhil †Lectr  
2 Hon. Lectrs

**Islamic History and Culture**

Raychowdhury, M. L., MA DLitt  
Ray, S., MA DPhil Prof, Hd of Dept  
Furssini, S A Q., MA PhD Reader  
Ray, A. C., MA PhD Lectr  
Qamaruddin, S M., MA Lectr  
Chopra, H L., MA †Lectr  
Khan, N A, MA †Lectr

**Mathematics, Applied**

Ghosh, S, DSc  
Su R B Ghose Prof, Hd of Dept

Bose, K M, DSc  
Gupta, A, MSc  
Chakravarti, S K, DSc  
Ghosh, N L, MSc DPhil  
Ghosh, P. K, MSc  
Roy, MSc PhD  
Mallik, D D, MSc DPhil  
Chakravarty, J, MSc DPhil  
Biswas Roy, U, MSc

†Lectr  
Lectr  
†Lectr  
†Lectr  
Lectr  
Lectr  
†Lectr  
†Lectr

**Mathematics, Pure**

Bisui Mazumdar, N C, MSc  
Chak, M C, MA DPhil  
Choudhuri, A C, MSc DPhil  
Chatterjee, B C, MSc  
Gorou, Rev Fr F  
Ganguly, P. L., MA  
Mitra, S S, MA  
2 Hon Lectrs

Hardinge Prof  
Reader  
Reader  
Lectr  
†Lectr  
Lectr  
Lectr

**Medicine, see below****Modern Indian Languages, see below****Pali**

Banerjee, A. C., MA PhD Prof, Hd. of Dept  
Banerjee, B, MA DPhil Reader  
Barua, D, MA Lectr  
Majumdar, P C, MA Lectr  
4 Hon. Lectrs

**Philosophy**

Das, A C., MA PhD Acharya B N Senl Prof  
Gupta, K., MA DPhil Reader, Hd of Dept  
Mahanty, J., MA PhD Lectr  
Chatterjee, P., MA LLB DPhil Lectr  
Banerjee, J. C., MA †Lectr  
Chakravarty, R, MA †Lectr  
De, S. K., MA †Lectr  
Sinha, D., MA DPhil †Lectr  
Sarkar, J C, MA DPhil †Lectr  
3 Hon Lectrs

**Physics, Applied**

Sengupta, A K, DSc  
Su R B Ghose Prof, Hd. of Dept  
Bhattacharya, G N, DSc Reader  
Dey, M., MSc PhD Reader  
Sinha, D. B., MSc PhD Reader  
Das, S. R., MSc Lectr  
Bandyopadhyay, K, DPhil Lectr.  
Bose, S K, MSc Lectr  
Ray, M N, MSc Lectr  
Basu, R N. Lectr  
Bhattacharya, S P., MSc DPhil Lectr.  
Sharma, S C., MSc Lectr  
7 Hon. Lectrs

**Physics, Pure**

Khastgi, S R G. P Singh Prof., Hd. of Dept  
Dutta, A K, DSc, FNI Sir T N Pal Prof.

Bagchi, S. N., DSc (Chem Phys.) Prof  
 Bhattacharya, P. C., DSc Reader  
 Dasgupta, K., MSc PhD Reader  
 Bhattacharyya, S. B., MSc DPhil Lectr  
 Dutta Majumdar, S., MSc Lectr  
 Guha, B., DSc Lectr  
 9 Hon Lectrs

**Physiology**

Mitra, S. R., MSc DPhil Reader, Hd. of Dept  
 Deb, C. C., MSc DPhil Reader  
 Mahalanobis, S. K., MSc Lectr  
 Chatterjee, B. B., MSc MB † Lectr  
 De, P., MSc DPhil Lectr  
 Mukherjee, S. S., MSc DPhil Lectr  
 7 Hon Lectrs

**Political Science**

S. N. Banerjee Prof

Ray, N. C., MA PhD Centenary Prof, Hd. of Dept  
 Banerjee, J. K., D Litt Puh Reader  
 Chatterjee, S. K., MA Lectr  
 Mukherjee, S., MA DPhil Lectr  
 Dasgupta, B., MA Lectr  
 Bhattacharyya, N. C., MA LLB † Lectr  
 Sen, K. N., MA † Lectr  
 Ghosh, S., MA † Lectr  
 Mitra, S. K., MA LLB † Lectr  
 Ghosh, P., MA † Lectr  
 Das, S. K., MA LLB † Lectr  
 Ghosal, A. K., MA PhD † Lectr  
 Raychaudhuri, S., MA PhD † Lectr  
 4 Hon Lectrs

**Psychology**

Sinha, S. C., MSc PhD Reader, Hd. of Dept  
 Ganguly, D., MSc PhD Reader  
 Chatterjee, B. B., MSc MB † Lectr  
 Chatterjee, R. G., MSc DPhil Lectr  
 Dutta, A. N., MSc Lectr  
 Dey, N., MB DTM, MRCP † Lectr  
 Ray, S. N., MSc DPhil Lectr  
 Bhattacharya, S., MSc Lectr  
 1 Hon Lectr

**Radiophysics and Electronics**

Bha, J. N., DSc  
 Su R. B. Ghose Prof, Hd. of Dept.  
 Choudhuri, A., MSc DPhil Reader  
 Deb, S., MSc DPhil Reader  
 Dasgupta, M. K., MSc PhD Reader  
 Basu, MSc Lectr  
 Mahalanobis, A. K., MSc Tech Lectr  
 Mukherjee, D. N., MSc † Lectr  
 Chakrabarti, N. B., MSc Lectr  
 Nag, B. R., MSc DPhil Lectr  
 Das, A. N., MSc Lectr  
 Sen, S., MSc Lectr  
 5 Hon Lectrs

**Sanskrit**

Bhattacharyya, A., MA PhD  
 Sir Asutosh Prof, Hd. of Dept  
 Goswami, K. G., MA Reader  
 Goswami, K., MA Reader  
 Bhattacharyya, J. B., MA PhD Reader  
 Lahiri, P. C., MA PhD Lectr  
 Sastri, P. Lectr  
 Chakrabarty, P. B., MA D Litt Lectr  
 Saptaratha, B. Lectr  
 Bhattacharyya, A. R., MA DPhil Lectr  
 Goswami, N. C., MA Lectr  
 Bhattacharyya, G. N., MA D Litt † Lectr  
 Tarkaturtha, T. † Lectr  
 Ghosal, S. N., MA DPhil † Lectr  
 Chakrabarti, A. K., MA † Lectr  
 Sastri, R., MA † Lectr  
 Srinivastha, B. C. † Lectr  
 Sengupta, S. K., MA † Lectr  
 2 Hon Lectrs

**Statistics**

Basu, P. K., MSc DPhil Centenary Prof.  
 Nandi, H. K., MSc Reader, Hd. of Dept.  
 Choudhuri, S. B., MSc Lectr  
 Banerjee, P. K., MSc Lectr  
 Chatterjee, S. K., MSc Lectr  
 Sen, P. K., MSc Lectr  
 1 Hon Lectr

**Zoology**

Bhaduri, J. L., DSc, FNI  
 Sir Nilakan Sircar Prof, Hd. of Dept.  
 Raychaudhuri, S. P., MSc PhD Reader  
 Chakravarti, G. K., MSc Lectr  
 Chakravarti, M. M., DSc Lectr  
 Ganguly, D. N., MSc DPhil Lectr  
 Mukherjee, S., MSc PhD † Lectr  
 Ghosh, A. K., MSc DPhil Lectr  
 Raychaudhuri, D. N., DSc Lectr  
 4 Hon Lectrs

**MEDICINE****Anatomy**

Chatterjee, H. K., DAE Puh, MB  
 Reader, Hd. of Dept.  
 Roy, P. R., PhD St And., BSc MB BS Reader  
 Goswami, N., PhD Patna, MB † Lectr

**Cardiology**

Gupta, J. C., MD Calcutta, MB † Hd. of Dept

**Chest Surgery**

Basu, A. K., MS, FRCS, FACS † Hd. of Dept

**Child Health**

Choudhuri, K. C., MB † Hd. of Dept

**Dermatology**

Banerjee, B. N., MB, FRCPed Hd. of Dept

<b>Diseases of Chest</b> Sen, P. K., MD <i>Beri</i> , PhD TDD <i>Wales</i> , MB Hd of Dept	<b>Surgery, Experimental</b> Mukherjee, S. R., PhD <i>Edin</i> , MB <i>AS</i> Hd of Dept Readers
<b>Medicine, General</b> Banerjee, J. C., MB, MRCP Hd of Dept	<b>Surgery, General</b> Sen, A. K., DPH <i>Lond</i> , MB, FRCS Hd of Dept
<b>Neurology</b> De, N., DPM <i>Lond</i> , MB, MRCPed Hd of Dept	
<b>Ophthalmology</b> Sen, K. I., DOMS <i>Lond</i> , MB, FRCSed Hd of Dept	<b>MODERN INDIAN LANGUAGES</b>
<b>Pathology, Bacteriology and Medical Zoology</b> Adat, B. K., MD <i>Patna</i> , PhD DCP <i>Lond</i> Hd of Dept Reader	<b>Bangali</b> Dasgupta, S. B., MA PhD Ramtarn Lahori Prof., Hd of Dept Reader Bhattacharyya, A., MA PhD Reader Bhattacharyya, B. B., MA DPhil Reader Das, M., MA Lectr Ganguly, T. N., MA DPhil Lectr Banerjee, A. K., MA DPhil Lectr Roy, R. N., MA DPhil Lectr Bose, S. P., MA Lectr Chakrabarty, J., MA Lectr Chakrabarty, J. N., MA Lectr Hon Lectr
<b>Pharmacology</b> Ray, B. B., MB Hd of Dept Reader	<b>Urdu</b> Shahid, E. H. P., MA Lectr Rauf, A., MA Lectr Belchud, A. A. K., MA Lectr Ahmed, S. M., MA Lectr
<b>Physiology, Biophysics and Biochemistry</b> Sen, P. B., MSc Hd of Dept Reader	
<b>Radiology and Radio Therapeutics</b> Mukherjee, S., DMRE <i>Calcut</i> , MB Hd of Dept	

## ADMINISTRATIVE AND OTHER STAFF

Law Officer : N. Ray, BA LLB. Asst Registrar : J. C. Mukherjee, BA BT. Dep Controller of Exams : B. B. Banerjee, MA DPhil. Asst Controller of Exams : D. P. Banerjee, BA. Audit Officer : B. Ghosh, BCom. Supt, Univ Press : S. Kanyalal, BSc. Sec, Bd. of Health : J. K. Bose, MB DPhil. Curator, Ashutosh Museum

of Indian Art : D. P. Ghosh, MA. Sec, Students' Advisory Bureau and Appis & Information Bd. : M. M. R. Chowdhury, DSSc *Glas*, BCom. Univ. Engineer : S. K. Raychowdhury, BE. Inspector of Hostels and Halls : M. Sanjay, BA BT.

## UNIVERSITY COLLEGES

[IA, BA, etc., after the name of a coll means that courses are provided there for Intermediate Arts, BA, etc.]

CALCUTTA, *University College of Arts*, Calcutta 12. MA, MSc, BT, DPhil, DLitt; dipls in Journalism and Langs., cert. in Langs. Secretary—S. Mukherjee, MA.

CALCUTTA, *University College of Commerce*, Calcutta 12. MCom, DPhil, DLitt. Secretary—S. Mukherjee, MA.

CALCUTTA, *University College of Law*, Calcutta 12. LLB. Principal—P. N. Banerjee, LL.D. McG, MA LLB DLitt. 43 other Teachers.

CALCUTTA, *University College of Medicine*, Calcutta 12. DPhil (med), MD, MS, MSc (ophthalmol), MO, MSc (med); DPM, DMRE,

DOMS, DGO, TDD, DCH, DTN&H, DA, DPH, DPH, DLO, and dipls in basic med. sci., cardiol., dermatol., maternity & child welfare, nutrition, psychol. med., venereal. Secretary—P. K. Banerjee, MSc MB BS DPhil.

CALCUTTA, *University College of Science*, Calcutta 9. MA, MSc, DPhil, DSc, cert. in appl. psychol. Secretary—B. K. Mukherjee, DIC, MSc.

CALCUTTA, *University College of Technology*, Calcutta 9. BTech, MTech, DPhil, DSc; dipl. in comp. technol. Secretary—B. K. Mukherjee, DIC, MSc.

## AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

- AGARTALA, Maharaja Bir Bikram College, Agartala, Tripura State, Pre-Univ (arts, sci),** IA, ISc, BA, BSc, BCom Principal—S. K. Choudhury. 67 other Teachers
- ALFURDWAR, Alpudwar College, Jalpaiguri, Pre-Univ (arts, sci),** IA, ISc, BA Principal—S. C. K. M. MSc. 18 other Teachers
- AMTA (HOWRAH), Ramsaday College, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—S. K. Das, MA. 17 other Teachers
- BAGOOLA, Sri Krishna College, Nadia, Pre-Univ (arts),** IA, BA Principal—R. N. Basu, MA. 10 other Teachers
- BARHARACHATA, Dwarabandhu Andrews College, P. O. Garin, 24 Parganas, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—M. C. Ghosh. 42 other Teachers
- BALGOUNGI (CALCUTTA), Mubadhar Golf College, Pre-Univ (arts),** IA, BA Principal—J. Chakrabarti, MA. 37 other Teachers
- BALURGHATA (W. DINAJPUR), Bahurghat College, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—K. M. Das, MA. 28 other Teachers
- BANGAON, Dwarabandhu Mahavidyalaya, 24 Parganas, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—S. K. Ghoshal, MA. 24 other Teachers
- BANKURA, Saranwati Medical College, MB BS, Principal—D. N. Mukherjee, DCH Lond., MB. 42 other Teachers**
- BARHAT, Baranati College (Govt.), 24 Parganas, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—C. P. Banerjee, MA. 29 other Teachers
- BARISHA, Puskamunda College, 24 Parganas, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—S. K. Roy, DSc. 61 other Teachers
- BARRACKPORE, Ramkrishna Swarnabati College, Pre-Univ (arts),** IA, BA Principal—S. Ganguly, MA PhD Lond. 18 other Teachers.
- BARISHA, Barishat College, 24 Parganas, Pre-Univ (arts),** IA, BA, BCom Principal—G. C. Kar, MA. 14 other Teachers
- BELGACHIA, R.G. Kar Medical College, 1 Belgachia Rd., Calcutta, Pre-med.,** ISc, MB BS, DGO, DOMS, DA. Principal—H. K. India, DO Lond., MB. 116 other Teachers
- BELURMATH, Ramkrishna Mission Sikhan Mandu, P.O. Belurmath, BT. Principal—A. K. Mukherjee, MA. Calg., MSc. 14 other Teachers.**
- BELURMATH, Ramkrishna Mission Vidyananda, Howrah, Pre-Univ. (arts, sci),** IA, ISc, BA, BSc Principal—Swami Tegsananda, MA. 32 other Teachers
- BERHAMPUR, Berhampur Girls' College, Mulshabad, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—Miss Priti Gupta, MA BT. 30 other Teachers
- BERHAMPUR, College of Textile Technology, Berhampur, BSc(Tech) Principal—A. T. Das, MSc. 20 other Teachers**
- BERHAMPUR, Krunath College, Mulshabad, Pre-Univ (arts, sci),** IA, ISc, BA, BSc, BCom Principal—S. P. Sengupta, MSc PhD Lond. 44 other Teachers
- BERHAMPUR, Union Christian Training College, Mulshabad, BT. Principal—A. K. Kisku, MA BT. 6 other Teachers**
- CALCUTTA, All India Institute of Hygiene and Public Health (Govt.), 110 Chattranjan Ave DPH, MSc and DSc in public health, dipla in maternity & child welfare, dietetics, indust. health, nutrition Principal—Miss M. Sen, MPH Harv., MB BS DMCW. 86 other Teachers**
- CALCUTTA, Anantak College, 92 S. P. Mukhyee Rd. Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—K. N. Sen, MA LLB. 92 other Teachers
- CALCUTTA, Bangshan College, Pre-Univ (arts, sci),** IA, ISc, BA, BSc, BCom Principal—P. K. Bose, BA Oxon., LLB MA. 126 other Teachers
- CALCUTTA, Basantidevi College, 147A Rash Behari Ave., Calcutta, Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—Miss E. Sen, MA BT. 11 other Teachers
- CALCUTTA (BIRPUR), Bengal Engineering College (Govt.), Botanic Garden, Howrah, BE, BArch, Dip in Town and Regional Planning Principal—A. C. Ray, BSc Glas., MPhil(India). 164 other Teachers**
- CALCUTTA, Bengal Music College, 10 Doves Lane, IMUS, BMus Principal—N. G. Banerjee. 15 other Teachers.**
- CALCUTTA, Bengal Veterinary College, Belgachia, BVSc&AH. Principal—M. S. Das, MS Missouri, BSc. 34 other Teachers**
- CALCUTTA, Bethune College (Girls) (Govt.), 181 Cornwallis St. Pre-Univ. (arts, sci),** IA, ISc, BA, BSc. Principal—Miss Mramlin Emmonson, MA LLB. 52 other Teachers.
- CALCUTTA, Brahmananda K.C. College, P.O. Alambazar, Calcutta 35. Pre-Univ (arts, sci),** IA, ISc, BA, BSc Principal—S. K. Majumdar, MSc. 43 other Teachers
- CALCUTTA, Chaitanya College, 22 Lake Rd. Pre-Univ. (arts, sci),** IA, ISc, BA, BCom Principal—K. Basu, DSc. 46 other Teachers.
- CALCUTTA, Chattranjan Seva Sadan College, 37 S. P. Mukherjee Rd. DGO, DCH, DMCW. Principal—B. Sengupta, MD. 17 other Teachers**

CALCUTTA, *City College*, 102/1 Amherst St. IA, ISc, BA, BSc, BCom. Principal—A. K. Sen, MA. 384 other Teachers.

CALCUTTA, *College of Leather Technology*, Canal South Rd. BSc(Tech) Principal—M. Banerjee, MSc Leath, BSc. 10 other Teachers.

CALCUTTA, *Dandi Hare Dinning College* (Govt.), 24/3 Ballygunge Circular Rd. BT. Principal—J. C. Dasgupta, MA PhD. 33 other Teachers.

CALCUTTA, *Dental College and Hospital* (Govt.), 114 Lower Circular Rd. BDS. Principal—U. S. Malik, MB BS. 25 other Teachers.

CALCUTTA, *Dakshin College for Girls*, 58a Sadmananda Rd. Pre-Univ (arts, sci), IA, BA. Principal—J. C. Guha, MA LLB. 10 other Teachers.

CALCUTTA, *Dum Dum*, *Dum Dum Mathur College* Pre-Univ (arts, sci), IA, ISc. Principal—D. P. Acharyya, MSc. 40 other Teachers.

CALCUTTA, *Dum Dum*, *Sriyog Nanda College for Women*, 30 Jessore Rd. Pre-Univ (arts, sci), IA, ISc, BA, BSc. Principal—L. Ghosh, BLitt DipEd Ovan. 44 other Teachers.

CALCUTTA, *Ganga College of Commerce and Business Administration*, 810 Bow Bazar St. BCom. Principal—P. C. Ghosh. 30 other Teachers.

CALCUTTA, *Goldie Memorial Girls' College*, 1/1 Harish Mukherjee Rd. Pre-Univ (arts, sci), IA, ISc, BA. Principal—Miss S. E. Rani Ghose, TD Lond., MA BT DPhil. 32 other Teachers.

CALCUTTA, *Gurudas College*, 132 Raja Rajendralal Mitra Rd. Pre-Univ (arts, sci), IA, ISc, BA, BSc. Principal—J. K. Dasgupta, MA PhD Lond. 41 other Teachers.

CALCUTTA, *Indian Institute of Social Welfare & Business Management*. Dips in soc. work, business management. Dir.—D. K. Sanyal, MA. 70 other Teachers.

CALCUTTA, *Institute of Education for Women*, Hastings House, Alipore. BT. Principal—Miss Nilini Das, MA. 21 other Teachers.

CALCUTTA, *Jogmaya Datta College*, 92 Syamsagar Road, Mookerjee Rd. Pre-Univ (arts, sci), IA, ISc, BA, BSc. Principal—Mayur J. C. Banerjee, MA. 75 other Teachers.

CALCUTTA, *Khudiram Bose Central College*, 71/4a Cornwallis St. Pre-Univ (arts), IA. Principal—P. C. Chakraborty, MA. 7 other Teachers.

CALCUTTA, *Lady Baburnee College* (Govt.), P/2, Sukhrawady Ave. Pre-Univ (arts, sci), IA, ISc, BA, BSc. Principal—Mrs. Roma Choudhuri, MA DPhil Ovan. 65 other Teachers.

CALCUTTA, *Lovely House* (Girls), 7 Middleton Row. Pre-Univ (arts), IA, ISc, BA, BT. Principal—Mother F. Clare. 21 other Teachers.

CALCUTTA, *Maharaja Manendra Chandra College*, 20 Ramkanta Bose St. Pre-Univ (arts, sci),

IA, ISc, BA, BSc, BCom. Principal—A. C. Banerjee, MA PhD. 92 other Teachers.

CALCUTTA, *Manjusha Acad College* (Govt.), 8 Wellesley St. Pre-Univ (arts, sci), IA, ISc, BA, BSc. Principal—B. C. Mukherjee, MA. 66 other Teachers.

CALCUTTA, *Medical College*, 88 College St. MB BS, DOMS, TDD, DGO. Principal—K. C. Sengupta, MB BS, FRCS, FRCSed. 134 other Teachers.

CALCUTTA, *Minahilkar Girls' College*, P/11/14 & 17 Girishat Rd., Calcutta, 29. Pre-Univ (arts), IA, BA. Principal—J. Chakraborty, MA. 37 other Teachers.

CALCUTTA, *National Medical College*, 32 Gorchand Rd. MB BS. Principal—K. N. Bagchi, DTM Lev. & Cole., MB, FRIC, FNI. 103 other Teachers.

CALCUTTA, *Nikhata Sarkar Medical College*, 38 Lower Circular Rd. MB BS. Principal—R. N. Guhathakurta. 113 other Teachers.

CALCUTTA, *Presidency College* (Govt.), 86/1 College St. Pre-Univ (arts, sci), IA, ISc, pre-med., BA, BSc. Principal—S. K. Basu, MA PhD Lond. 127 other Teachers.

CALCUTTA, *Sangit Bharati*, 250 Syamsagar Mookerjee Rd., Calcutta 25. IMu, BMus. Principal—S. Govind, MA. 10 other Teachers.

CALCUTTA, *St. Joseph's College*, 69 Bow Bazar St. IA, ISc. Principal—Rev. Brother J. A. McPherson. 5 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College*, 31/1 Amherst St. Pre-Univ (arts, sci), IA, ISc, BA, BSc. Principal—C. S. Shaw, MSc DPhil. 52 other Teachers.

CALCUTTA, *St. Xavier's College*, 30 Park St. Pre-Univ (arts, sci), IA, ISc, BA, BSc, BCom. Principal—Rev. A. Versteegen, MSc. 73 other Teachers. Students of religious persuasions other than R.C. are admitted.

CALCUTTA, *Sanskrit College* (Govt.), 1 Benim Chatterjee St. Pre-Univ (arts), IA, BA. Principal—G. N. Bhattacharyya, MA D Litt Sastri. 23 other Teachers.

CALCUTTA, *School of Tropical Medicine*, DTM&H. Principal—R. N. Choudhuri, TD Wales, MB, FRCPed, FNI. 37 other Teachers.

CALCUTTA, *Scottish Church College*, 4 Cornwallis Square. Pre-Univ (arts, sci), IA, ISc, BA, BSc, BT. Principal—M. K. Mundle, MSc. 95 other Teachers. Formerly the General Assembly's Instn and Duff Coll.

CALCUTTA, *Seth Anandam Jagannath College*, 10 Raja Nabakrishn St. Pre-Univ (arts, sci), IA, ISc, BA, BCom. Principal—S. C. Pal, MA BT. 39 other Teachers.

CALCUTTA, *Seth Svarajullal Jalan Girls' College*, 156 Chatteranjan Ave. Pre-Univ (arts), IA, BA. Principal—Mrs. Indrabati Singh, MA LT. 17 other Teachers.



CALCUTTA, *South Calcutta Girls' College*, 72 Lansdowne Rd. Pre-Univ (arts), IA, BA Principal—Mrs. Beni Mitra, MA BT 21 other Teachers

CALCUTTA, *Sri Shukhdayan* (College Dept.), 11 Lord Sinha Rd. Pre-Univ (arts), IA, BA Principal—Mrs. B. Sarkar, MA. 28 other Teachers

CALCUTTA, *Smendabauath College*, 24 Harrison Rd. Pre-Univ (arts, sci), IA, ISC, BA, BSc, BCom Principal—R M Roy, MSc 155 other Teachers

CALCUTTA, *Sureshanath College for Women*, 24 Harrison Rd. Pre-Univ (arts), IA, BA Principal—Miss M Dasgupta, MA

CALCUTTA, *Sowdhanath Law College*, 24 Harrison Rd. LLB Principal—S K Datta, MA LLB 12 other Teachers

CALCUTTA, *Symphony and College*, 92 Symaprasad Monjee Rd. Pre-Univ (arts), IA, BCom Principal—S N Chakraborty, MA. 11 other Teachers

CALCUTTA, *Victoria Institution for Girls*, 78 Upper Circular Rd. Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—Miss Suprabha Choudhuri, MA 39 other Teachers.

CALCUTTA, *Vidyagar College*, 39 Sankar Ghosh Lane. Pre-Univ (arts, sci), IA, ISC, BA, BSc, BCom Principal—D. C. Ray, MSc 140 other Teachers

CALCUTTA, *Vidyasagar College for Women*, 39 Sankar Ghosh Lane. Pre-Univ (arts, sci), IA, ISC, BA, BSc. Principal—S Ghosh, MA 65 other Teachers.

CALCUTTA, *Vishal College for Home Science*, Hastings House, Calcutta 27 IA, ISC, BA, BSc Principal— 20 other Teachers

CALCUTTA, *Vysakh J.R. College*, Calcutta 72 Pre-Univ (arts, sci), IA, ISC, BA. Principal—A. B. Chakraborty. 21 other Teachers

CALCUTTA, *Women's Christian College*, 6 Greek Church Row. Pre-Univ (arts), IA, BA. Principal—Stella Bose 23 other Teachers

CALCUTTA, *Women's College*, 204 Cornwallis St. Pre-Univ (arts), IA, BA Principal—S M Bhattacharyya, MA PhD 15 other Teachers.

COCHI, *Prabhathuvam College*, Midnapur Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—B B Muty, MSc 35 other Teachers

COCH-BIHAR, *Dinkata College*, P O Dinhat, Cochi-Bihar Pre-Univ (arts), IA, BA. Principal—R C. Nath, MA. 11 other Teachers

COCH-BIHAR, *Victoria College* Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—K C Mukherjee, MSc 31 other Teachers.

DARSHINISWAN, *Huatal Majumdar Memorial College for Women* Pre-Univ (arts), IA, BA Principal—S C Chakraborty, MA 8 other Teachers

DARJEELING, *Govt College* Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—S N Sen, MA DLitt 39 other Teachers

DARJEELING, *Sree Ramkrishna B T College* BT. Principal—Major B N. Sen 12 other Teachers

DARJEELING, *St Joseph's College* Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—Rev A Schokward 27 other Teachers

DIAMOND HARBOUR, *Pakchanda College*, 24 Parganas Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—A C. Ray, MA 16 other Teachers

GARHIA, *Garbata College*, Midnapur Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—B B Banerjee, MA LLB 19 other Teachers

GOBARDANGA, *Hindu College*, 24 Parganas Pre-Univ (arts, sci), IA, ISC, BA, BSc, BCom Principal—A C Banerjee, MA 38 other Teachers

HABRAH, *Sree Chaitanya College*, 24 Parganas Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—A C Banerjee, MSc 46 other Teachers

HOWRAH, *Begun College* Pre-Univ (arts), IA, BA Principal—J C. Das, MA 21 other Teachers

HOWRAH, *Gul' College*, 1/3 Mahatma Gandhi Rd. Pre-Univ (arts), IA, BA. Principal—B K. Bhattacharyya, MA 34 other Teachers

HOWRAH, *Naradha Dutt College*, 129 Bellidies Rd. Pre-Univ (arts, sci), IA, ISC, BA, BSc, BCom. Principal—R R Chakraborty, MA 49 other Teachers.

JALPAIGURI, *Anandachanda College* Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—B. C. Dechaudhury, MA 31 other Teachers.

JALPAIGURI, *Anandachanda Training College*, BT Principal—S. S. Maitra 9 other Teachers.

JALPAIGURI, *Pranmasree Women's College* Pre-Univ (arts, sci), IA, ISC, BA, BSc Principal—Miss Chaluparna Bose, MA 24 other Teachers

JANGIPUR, *Jangpur College*, Murshidabad Pre-Univ (arts, sci), IA, ISC, BA, BSc. Principal—J N. Datta, MSc. 25 other Teachers.

JHARGHAM, *Raj College* (Govt), Midnapur. Pre-Univ (arts, sci), IA, ISC, BA, BSc (Ag), BA, BSc Principal—M. S. Khan. 18 other Teachers

JHAGANJ, *Sripattinag College*, Murshidabad Pre-Univ (arts, sci), IA, ISC, BA, BSc. Principal—J P Sengupta, MA BT 22 other Teachers

KAILASHAHAR, *Kailashah Ramkrishna Mahavidyalaya*, Tripura Pre-Univ (arts, sci), IA, ISC, BA. Principal—S Dhan, MA DPhil 12 other Teachers

KALIMPONG, *Scottish Universities Mission College*, Darjeeling Pre-Univ (arts), IA Principal

—Rev W M Scott, MA BD DipEd 9 other Teachers

KANDI, *Kandi Raj College*, Murshadabad Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—D L Das, MA PhD 26 other Teachers

KHARAGPUR, *Kharagpur College*, Midnapur Pre-Univ (arts, sci.), IA, ISc, BA, BSc, BCom Principal—H B Sankar, MA, 31 other Teachers

KRISHNAGAR, *Guh College*, Nadia Pre-Univ. (arts), IA, BA Principal—Miss D Basu, BSc Lond 14 other Teachers

KRISHNAGAR, *Krishnagar College* (Govt.), Nadia Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—P B Mukherjee, MA 71 other Teachers

MAHABAD, *Raj College*, Midnapur Pre-Univ (arts, sci.), IA, BA, ISc, BSc Principal—D K Basu, MA 28 other Teachers

MALDAH, *Malda College* Pre-Univ. (arts, sci.), IA, ISc, BA, BSc Principal—D K Bhattacharyya, MA 26 other Teachers

MIDNAPUR, *Midnapur College* Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—P N Ghosh, MA 50 other Teachers

MIDNAPUR, *Midnapur Women's College* Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—Mrs S Mandle, MA 21 other Teachers

MIDNAPUR, *Sahayatan Shiksha Mahavidyalaya*, Jhargam BT. Principal—P. K De 4 other Teachers

MIDNAPUR, *Sitavanda College*, Nandigram Pre-Univ, 3-3. BA, 3-3. BSc Principal—C. Bose 8 other Teachers

NARADWIP, *Vidyasagar College*, Nadia. Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—A N Mukherjee, MA 21 other Teachers.

NAIBAH, *Ruh Bahadur College*, 24 Parganas Pre-Univ (arts, sci.), IA, ISc, BA, BSc, BCom Principal—S R Das Gupta, MA PhD 30 other Teachers

NEW BARRACKPUR, *New Barrackpur College*, P O Akhanspur, 24 Parganas. Pre-Univ, 3-3. BA Principal—J C Chakrabarty, MA 8 other Teachers

RAIGANG, *Raiganj College*, West Dinajpur. Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—S N Ray, MA 23 other Teachers

RANKIRISHNA, *Rankirishna Mission College*, Narendrapur, 24 Parganas. Pre-Univ (arts, sci.), 3-3. BA, 3-3. BSc Principal— 24 other Teachers

RANAGHAT, *Ranaghat College*, Nadia Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—B C Roy, MSc LLB. 18 other Teachers

SANTIPUR, *Santipur College*, Nadia Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—D N Chakrabarti, DSc 22 other Teachers

SIBPUR, *Dwivedi Institution*, 412-2 GTR, Sibpur, Howrah Pre-Univ (arts, sci.), IA, ISc, BA, BSc, BCom Principal—N G Chaudhuri, MA 43 other Teachers

SILIGURI, *Siliguri College*, Darjeeling Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—D C Chatterjee, MA 25 other Teachers

SONADA, *Solenah College*, Darjeeling Pre-Univ (arts), IA, BA Principal—N Lo Gru, PhD 9 other Teachers.

TAKI, *Taki Govt College*, 24 Parganas Pre-Univ (arts, sci.), IA, ISc, BA, BSc Principal—T S Bhattacharyya, MA D Litt 29 other Teachers

TAMLUK, *Tamluk Mahavidyalaya*, Midnapur Pre-Univ. (arts, sci.), IA, ISc, BA, BSc, BCom Principal—D Chaudhuri, MA LLB. 40 other Teachers

TANGRAHALI, *Tangrahalali Banash Sarda College* Pre-Univ (arts), IA, BA Principal—P K Das Gupta, MA 14 other Teachers.

ULUBERIA, *Uluberia College*, Howrah Pre-Univ. (arts, sci.), IA, ISc, BA Principal—J Banerjee, MSc. 23 other Teachers

## GENERAL INFORMATION

In July 1854 the court of directors of the E. India Co. sent a dispatch to the governor-gen. of India in council directing the organization of the univs. of Calcutta, Madras and Bombay. In pursuance of that dispatch the Univ of Calcutta was incorporated on Jan 24, 1857. The jurisdiction of the univ. extended at first throughout practically the whole of N India, but the territorial jurisdiction has now been limited to the state of West Bengal, excl. the areas of Visva-Bharati, Jadavpur, Burdwan and Kalyani Univs. The Indian Universities Act of 1904 empowered the univ. to make necessary arrangements for the matrons of students, and though most of the teaching continued to be imparted in the affiliated

colls., teaching in some of the higher branches began to be organized under univ. management. In 1917 a new scheme for postgrad. teaching and res. centralized postgrad. teaching in Calcutta within, and under the control of, the univ. The act of 1951 provided for higher postgrad. teaching in affiliated colls. along with the univ. colls.

CONSTITUTION The senate of 158 members (80 elected, 15 nominated, 54 ex officio) is the supreme governing body. The syndicate of 23 members (13 elected, 10 ex officio) is the admin. body. The academic council of 76 members (21 elected, 55 ex officio) is mainly concerned with making regns. for different courses. There are

12 fees and several bds. of studies. The normal work of the univ. is carried on under the direction of the vice-chancellor and syndicate. Control of financial affairs is in the hands of the finance officer.

**POSTGRADUATE TEACHING AND RESEARCH.** Postgrad teaching in arts, comm., law, med., sci. and technol. is conducted by the relevant univ. coll. councils. The univ. provides for postgrad teaching in: anthropol., Asiatic archaeol., Bengali, biochem., bot., chem. (pure & appl.), comm., compar. philol., econ., educn., Engl., French, geog., geol., German, Greek, Hebrew, hist. (incl. anc. Indian hist. & culture, Islamic hist. & culture), Latin, law, maths. (pure & appl.), mental & moral philos., mod. Indian langs. other than Bengali, Palu, Persian, phys. (pure & appl.), physical, pol. sci., psychol. & appl. psychol., radio-phys. & electronics, Sanskrit, social and human relns., stats., Syriac, zool. & compar. anat.

The dept. of postgrad teaching and res. in arts is located in the Anutosh bldg. and the dept. of econ. in Emerald Bower at B.T. Rd. Postgrad teaching and res. in the different branches of sci. and technol. studies are carried on in the univ. coll. of science at 92 Upper Circular Rd. and 35 Ballygunge Circular Rd., where opportunities for res. have been provided by the establishment of extensive labs and up-to-date workshops. Postgrad study at univ. coll. of med. includes higher trg. in basic med. sci. (anat., bacteriol., bio-chem. and bio-phys., med. zool. and exper. surg., pathol., pharmacol., physiol.), as well as in different branches of med., surg. and obstet. & gynaecol. See also 'Univ. Colls.', above.

**INCOME (1960-61)** Total income, Rs. 10,893,000 (govt. grant, 20.3 per cent., exam. fees, 43.2 per cent., other fees, 36.5 per cent.)

**FACULTIES AND DEANS.** Agric., Prof. P. K. Sen; arts, Prof. N. R. Ray (anc. Indian hist. & culture); comm., Prof. S. K. Basu (econ.); educn., Principal A. C. Banerjee; engin., Principal A. C. Ray; fine arts & music, Principal G. N. Bhattacharyya; journalism, C. K. Bhattacharyya; law, Hon. Justice P. B. Mukherji; med., Dr. S. N. Sen; sci., Prof. S. R. Kistner (pure phys.), technol., Prof. J. N. Bhui (radio-phys. & electronics), vet. sci., Dr. B. Sengupta.

**LIBRARIES.** The univ. library contains over 385,723 vols., incl. pamphlets and periodicals, a fairly large collection of Bengali, Sansk. and Tibetan MSS. and a large no. of photograph copies of Persian and Asiatic MSS. Other libraries attached to univ. include law coll. libr. and libr. of depts. of sci. and technol.

**LABORATORIES.** Appl. maths., biol., phys. and chem. (pure & appl.), psychol., etc.; Sahasraset of nuclear phys. (see below).

**MUSEUMS.** Anutosh museum of Indian art (including art collections of the late Purnendranath Nair) and museums attached to the anthropol. and econ. sections of the univ.

#### USUAL LANGUAGE OF INSTRUCTION, English

**ADMISSION.** A cert. of having passed the univ. matric exam. (up to 1951), or sch. final exam. or higher sec. exams of W. Bengal sec. bd. of educn., or pre-univ. exam. conducted by the univ., or any exam. conducted by syndicate as its equivalent. Applicants of foreign students considered on their merits.

**Pre-univ. and pre-profess. courses.** Each 3 yr. admission qualif. for 3-yr. degree courses in higher sec. or pre-univ. exam. Students passing the sch. final exam. of the bd. of sec. educn., W. Bengal, must take admission to, and pass, the pre-univ. course (1 yr.) in order to be eligible for admission to the 3-yr. degree course in arts, comm. and sci. For admission to degree courses in engin. (BE, 4 yrs.) and med. (MB BS, 5 yrs.) a student is required to pass the pre-engin. and pre-med. exams respectively after higher sec. stage.

**FIRST DEGREE.** 2 yrs.—BA, BMus, BCom, BSc, 3 yrs.—BA, BSc, BCom, BSc(Tech) in leather and textile technol., 4 yrs.—BE, BDS, BVSc&AH, BSc(Tech) in leather, textile and ceramic technol., 5 yrs.—BE, BArch, BDS, MB BS, BVSc&AH, 6 yrs.—BArch, MB BS.

The univ. has introduced 3-yr. degree courses, as recommended by the Sec. Educn. Commission, starting from the session 1960-61.

**HIGHER DEGREE EXAM.** for LL.M. may be taken by any law grad., 1 yr.—BT, ME (public health), MSc(med.), MTech, 2 yrs.—MA, MCom, MSc, MSc(Ag), MPlanning, BTech, 3 yrs.—LL.B. Degrees by thesis: MArch, ME, MD, MS, MS (ophthalmol.), MO, DPhil (in agric., arts or sci.), DPhil(Engin.), DPhil(Med.), DLit, DSc, DSc(Eng), DSc (public health), LLD. The DLit, DSc and LLD may also be conferred as honorary degrees.

Grads of the univ. in arts and comm. are allowed to take MA or MCom exam. without attending classes, 3 yrs. after graduation, also grads of other recog. univs., provided they attend postgrad classes of the univ. for 1 yr. Women grads of the univ. are allowed to appear at LL.B. exam. without attending classes.

**DIPLOMAS.** Nutrition, 9 mos.; anesth., basic med. sci., cardiol., dermatol., dietetics, DTM&H, psychol. med., venereal, 1 yr.; DCH, DOMS, 1½ yrs.; DLO, 2 yrs.; DHH, DPH, DGO, about 1 yr.; tuberculous dis., maternity & child welfare, about 2½ yrs.; DMR&E, 4 yrs. Other dipls.: dom. sci., home sci., langs., librarianship, scrap technol., soc. work, spoken English, 1 yr.; journalism, museol., DTRP (in engin.), 2 yrs.; appl. anthropol., jute technol., 3 yrs.

**CERTIFICATES.** Appl. psychol., langs., 1 yr., jute technol., tanning, 3 yrs.

**NON-COLLEGIATE STUDENTS.** Teachers, lib. assts., librarians of recog. univs. and women candidates are allowed to appear at pre-univ., IA, ISc, BA, BSc and BCom exams without attending colleges, on fulfilment of prescribed conditions, also regular combatants, if they have passed

previous qualifying exams. of the univ. or bd. of sec. educn., W. Bengal

**EXTERNAL STUDENTS.** Students who pass the previous qualifying exams. of the univ. or bd. of sec. educn., W. Bengal, are allowed to appear at pre-univ., I.A., B.A. and B.Com. exams. as external students subject to fulfilment of prescribed conditions. Such students are, however, allowed to take their exams. at least 1 yr. after the usual course of study prescribed for each exam.

**FEES.** Exam. fees range from Rs. 22 for pre-univ. and Rs. 30 for I.A. to Rs. 80 for MA, DPhil. and D.Litt. exams. Rs. 200 and Rs. 300 respectively. Tuition fees: no standard rate, fees vary from coll. to coll. and for different courses.

**ACADEMIC YEAR** begins on June 1

**'Open' POSTGRADUATE AWARD.** Bipradas Pal Chowdhury fellowship (Rs. 5000 for 1 yr.) awarded every 3 yrs. to foreign scholars for study in India.

**RESIDENCES.** There are three classes of lodgings for students: (a) collegiate hostels; (b) non-collegiate hostels under external management; (c) halls maintained and hostels recog. by the bd. of residence. Seat rents vary from Rs. 9 to Rs. 12 p.m. Messing charges from Rs. 55 to Rs. 75 p.m. 70 such residences exist in Calcutta with total accomm. for 5850 students. Of these, 14 are for women only, having 750 places.

**BOARD OF HEALTH** undertakes med. exam. of students, maintains eye clinic and arranges for inspection of hostels, halls, etc.

**SPORTS BOARD.** Organizes inter-coll. and inter-univ. physical activities.

**APPOINTMENTS AND INFORMATION BOARD AND STUDENTS' ADVISORY BUREAU (OVERSEAS).** This organization has 3 sections.

**Appointments service** secures employment for grads and arranges practical try facilities in every field of employment, besides providing advice and guidance on careers.

**Advisory services** the bd. gives advice to students at any time during and after their univ. course, on all matters relating to employment, careers, etc., offers advice and information regarding facilities available for higher studies and res. and for practical trip. overseas, admission to academic and profess. instns. and facilities for practical trip. in indust. and comm. firms.

**Information service:** provides up-to-date information regarding courses of study offered by the Indian univs. and technical instns., various competitive exams. and other recruitments by govt. and semi-govt. depts., etc.

**DEPARTMENT OF TRAINING,** 161 Sympson Road, Mookerjee Rd., Calcutta 26 (tel.: South 1868). Arrangements have been made in this dept. for

teaching the BT course, and MA or MSc course in educn.

**SARA INSTITUTE OF NUCLEAR PHYSICS,** 92 Upper Circular Rd. Establd. in 1951, the inst. provides MSc and post-MSc instrcn. and facilities for res. The inst. received donations from the public and grants from the govt. of India and the univ. for its establt. It is an all-India inst. in which 40 per cent. of places are meant for students coming from other states of India. Dir.—Prof. B. D. Nigrahchoudhury, MSc Ph.D. Calcutta.

**INSTITUTE OF JUTE TECHNOLOGY,** 35 Ballygunge Circular Rd., Calcutta, 19 (tel.: P.K. 1985). Establd. under auspices of the univ. by the Indian Jute Mills Assocn., the inst. is maintained under a governing body of which the vice-chancellor is chairman and the pres. of the assocn. is an ex-officio member. It is financed by the assocn. The inst. trains annually 30 sci. grads. or undergrads. A cert. course in jute technol. has been started.

**DEPARTMENT OF SOCIAL WORK.** The appn. bd., in collaboration with industries and govt. of India, stated the dipl. course in soc. work to give trig to then labour welfare officers. An all-India Inst. of Soc. Welfare and Business Management, where facilities for trig in gen. as well as indust. welfare are provided, has been establd.

**SPECIAL LECTURES.** Eminent scholars from India and abroad are, from time to time, invited by the univ. to deliver courses of lectures on subjs. in which they have specialized. These lectures, after delivery, are printed and publd. by the univ.

**STUDENTS' UNION.** There are students' unions in colls. and various extra-academic activities are normally organized by them.

**PUBLICATIONS.** Centenary vols., Rs. 25, *Calcutta*, Rs. 12 annually, *Univ. Regulations*, Rs. 7, *Commencement Addresser*, 1924-25 and 1915-23, each Rs. 5, *Calcutta Review*, monthly, annual sub. Rs. 7 8 inlnd., 14 shillings foreign, *Journals of depts.* of letters, *Journal of the dept. of sci.*, prices may vary from vol. to vol.; Sir Anutosh Mookerjee Silver Jubilee vols.—vols. 1, II, and vol. III in 3 parts, Rs. 11 4 each; *Bulletin of math. society*, etc. Other publns. (over 600 vols.) on all Indian culture, hist., philos., law, econ., maths., lang., educn. and sci. Catalogue of univ. publns. may be had on application to the registrar.

**UNIVERSITY PRESS,** 48 Hazra Rd. Supt.: S. Konjald, BSc. The univ. undertakes the publn. of specialized lectures delivered by the univ. profs., lectrs. and readers, themes of successful candidates for degrees, scholcs. and prizes, and results of res. work earned out by univ. profs., lectrs. and res. assts., besides a number of periodicals, annuals and serials.

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1960-61  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	72,004	15,725
Women	26,097	395
Total	98,101	16,120

Distribution by Faculties. *Agric*, 87; *arts*, 56,521; *comm*, 11,191; *educn*, 1286; *engin*, 1515; *fine arts & music*, 85; *journalism*, 105; *law*, 4141; *med*, 3647; *sci*, 35,094; *technol*, 340; *vet. sci.*, 207. Total 114,321

Included in the figures above are:—

Pre-University students, 25,597

Intermediate students, 30,322

Postgraduate students, 5125

New admissions, 25,597

Students from other countries, 405 (Countries from which largest numbers came: R. Pakistan, 237; Nepal, 26; Ceylon, 22; Burma, 19).

DEGREES AWARDED (1960) *Agric* BSc(Ag), 30; MSc(Ag), 9 *Arts* BA, 4086; BA hon., 822; MA, 1101; DPhil, 13 *Comm* BCom, 2900; MCom, 502 *Educn* BT, 1170; MA, 19; MSc, 6 *Engin* BE(Arch), 9; BE(Civil), 73; BE(Elec), 28; BE(Mech), 27; BE(Met), 21; BE(Mining), 10; ME(PH), 22 *Fine arts & music* BMus, 3 *Med* BDS, 19; MB BS, 555; MD, 4; MO, 4; MS, 4; DPhil, 5 *Sci* BSc, 2073; BSc hon., 353; MSc, 368; DPhil, 57; DSc, 11 *Technol* BSc, 23; MSc(Tech), 86 *Vet sci.* BVSc, 48

DIPLOMAS AWARDED (1960) *Business management*, 20; *lang*, 13; *librarianship*, 68; *soc work*, 90; DTRP, 3; *journalism*, 34; DA, 11; DCH, 21; DTM&H, 31; *dentetics*, 11; DGO, 53; DIH, 9; *nurs*, 1; DOMS, 13; DPH, 3; TDD, 9; *dom sci*, 67; *home sci*, 9.

CERTIFICATES AWARDED (1960) *Lang*, 35; TT(AntApprec), 15; *appl psychol*, 7



Sachdev, J. S., DupTP Lond  
Rm, J

### Bengali

Choudhuri, N. N., MA DLett Calc.,  
Shastri

Ghosh, Mrs. Nandini, MA  
Chatterjee, A., MA  
Mitra, B. N., MA  
Sen, Mrs. Shown, MA  
Das, Mrs. S  
Paul, Miss Sabita, MA  
Das, M. K  
Bandyopadhyay, Miss G  
Chatterjee, S. K., MA

### Biology

Bak, P. N., MSc  
Gan Chand, MSc  
Singh, Kulbir, MSc  
Kaul, P. M., MSc  
Nagar, S. K., MSc  
Oberoi, N. K., MSc  
Lal, S  
Datta, P., BSc LLB  
Rai, K. S., MSc  
Sengal, S. M., MSc  
Shah, Lal, MSc  
Ahmad, S., MSc  
Kumar, V., MSc  
Kapur, B. G., MSc PhD  
Oberoi, Y. P., MSc  
Malhotra, K. L., BSc  
Gupta, Mrs. S. M., MSc PhD  
Mocsa, J. C.  
Zena, Mrs. Vijay K  
Rajamanar, Mrs. Nirmala

### Botany

Maheshwari, P., Hon. DSc McG., DSc  
FNI  
Johri, B. M., DSc  
Tandon, S. L., MSc PhD  
Singh, V. P., MSc PhD  
Maheshwari, S. C., MSc  
Venkatesh, C. S., MSc PhD  
Chowdhury, N. P., MSc  
Mohan Ram, H. Y., MSc  
Das, B. K., MSc  
Chopra, Mrs. Naina, MSc Pany.  
Konar, R. N., MSc  
Chopra, R. N., MSc PhD  
Singh, M. M., MSc  
Roychowdhury, Miss C., MSc PhD  
Singh, H., MSc PhD  
Kapil, R. N., MSc PhD  
Vasul, I. K., MSc PhD  
Rangaswamy, N. S., MSc PhD  
Jain, M. P., MSc  
Kumar, V., MSc  
Bhagat, Miss Usha, MSc  
Singh, K., MSc  
Bhatnagar, S

Sengul, S. M  
Malik, C. P  
Sachdeva, Miss Usha  
4 Res. Asst  
(DB)  
(DB)  
(DB)

### Buddhist Studies

Prof. §  
(I) Gokhale, V. V., MA PhD Prof.  
(D) Jinananda, B., MA PhD Reader  
(H) Sanghasena, MA Lectr  
(I) Gupta, Mrs. S. S., MA Lectr  
(I) Pandeya, R. C., BA PhD Lectr  
(LSS) Loheng Yang, Mrs Lectr  
(D) Lama Champa Lectr  
(M) 1 Res Asst  
(D)

### Chemical Engineering

Datta, M. H., BSc PhD Lond (DP)  
Das, B. N., MSc (DP)  
Krishan, N. G., MSc Bsc., MChE (DP)  
Vishwanathan, M. S., MS Patr.,  
BSc(Tech) (DP)  
Vashist, P. N (DP)  
Wagh, N. H., BSc(Tech) Bom., MS IITM. (DP)  
Bawar, S. K (DP)  
Saini, M. A (DP)  
Puri, K. K. (DP)  
Shah, C. D., BSc(Tech) (DP)  
Chaplanek, M. T., BSc(Tech) (DP)  
Dubey, S. P (DP)  
Mohan, M (DP)  
Rumford, F., BSc PhD, FRIC (CET)  
Bajaj, S. S., BA BSc (CET)  
Grover, P. D., BChE (CET)

### Chemistry

Seshadri, T. R., MSc PhD, FRS Prof. §  
Mitra, R. P., DSc Prof. §  
Jain, B. D., PhD Reader §  
Mishra, K. B. L., DSc Agra Reader §  
Saharia, G. S., PhD Reader §  
Khosla, B., MSc Reader §  
Kai, K. R., PhD Reader  
Singh, R. P., MSc Reader  
Johri, K. N., MSc Reader  
Srinivasamurthy, V. V., DSc Reader  
Mathias, H. B., MSc PhD Reader  
Gaur, H. C., MSc PhD Reader  
Jain, A. C., MSc PhD Reader  
Gupta, S. R., MSc PhD Lectr. §  
Krishnamurthy, M., MSc PhD Lectr. §  
Mookerjee, S. K., MSc PhD Lectr. §  
Neelakantan, S., MSc PhD Lectr. §  
Aghorawari, K., MSc PhD Lectr. §  
Purshottam, Mrs. Kunduri V., MSc Lectr. §  
Mittal, O. P., MSc PhD Lectr. §  
Dhar, M. L., MSc PhD (on leave) Lectr. §  
Venkata-Subramanian, G. B., MSc Lectr. §  
Banerjee, N. R., MSc PhD Lectr. §  
Ahluwalia, V. K., MSc PhD Lectr. §  
Ramakrishna Rao, M. V Lectr.  
Sareen, P. S Lectr.  
Sharma, B. K Lectr.  
Chand, A. Lectr.

Dharmagaha, V. P.	Lectr.	Tiwari, S. N.	(R)
Nagarajan, G. R.	Lectr.	Saraya, Miss N	(L)
Arora, S. K.	Lectr.	3 Res Assts	
Gupta, S. R.	Lectr.		
Rao, M. M.	Lectr.		
Aggarwal, A. L., MSc Pay.	Lectr. (H)	<b>Commerce and Geography</b>	
Jain, B. L., BSc	Lectr. (H)	Vaish, J. N., MA Calc, FCA	(C)
Narula, J. L., MSc	Lectr. (R)	Shukla, M. C., BA BCom Buw	Prof.
Soni, S. P., MSc	Lectr. (D)	Sadanah, K. L., BA Lond, MA Pay.	(C)
Kumari, R. L., MSc	Lectr. (D)	Kapoor, M. C., MCom Agra	(C)
Soni, P. L., MSc Pay.	Lectr. (HR)	Grewal, T. S., MA Calc	(C)
Multani, R. K., MSc Pay., PhD	Lectr. (HR)	Gautam, J. K., MCom Alld.	(C)
(on leave)	Lectr. (HR)	Ghose, P. K., MCom	(R)
Jacob, Mrs. Thankama, MSc	Lectr. (L)	Gupta, L. C., MCom	Reader
Singh, Gulmukh, MSc	Lectr. (K)	Bhattacharya, M. K., MA Calc	(D)
Rama Krishna Rao, M. V., MSc	Lectr. (K)	Talwar, P. P., MCom	(D)
Ganguli, A. K., MSc	Lectr. (DB)	Maheshwari, R. P., MCom	(C)
Chander, A., MSc	(DB)	Qureshi, I., MCom	(D)
Bodhanaya, R. P., MSc	(DB)	Tandon, B. N., PhD Math, MA (Com)	(DP)
Chhibber, S. S., MSc	(HR)	Bhushan, Y. K., MCom	(C)
Dewan, R. K., MSc	(DB)	Chandra, S. K., MCom	(C)
Gang, Miss Krishna, MSc	(L)	Kapoor, N. D., MCom	(HR)
Gupta, N. K., MSc	(R)	Singh, Sukhba	(K)
Singh, Indrajit, MSc	(K)	Khanna, K. K., MA	(C)
Iswaran, V., MSc	(CCA)	Laxmi Narain, MCom	(D)
Kumar, C. L., MSc	(DB)	Vasna, L. N. M., MCom	(D)
Luthra, R. K., MSc	(KM)	Sharma, C. S.	(D)
Mathai, Miss Suman, MSc	(L)	Gulshan, S. S.	(Lectr.)
Maito, B. N., MSc	(KM)	Mitra, M. L., MA MCom	(C)
Mehra, H. S., MSc	(H)	Tyagi, C. L., MCom LLB	(HR)
Mitter, B., MSc	(DB)	Grever, R. K., MCom	(SD)
Sharma, B. K., MSc	Lectr.	Nagari, R. S., MCom	(DAV)
Vedehra, K. L., MSc	(D)	Vinod, P., MCom	(DAV)
Vasandani, M. P., MSc	(KM)	Singh, B. P., MCom	(R)
Grewal, G. S., MSc	(KH)	Chandra, M., MCom	(R)
Bal, G. S., MSc	(KH)	Arora, S. P., MCom	(C)
Kohli, R. M., MSc	(R)	Gupta, V. S., MA	(C)
Singh, H., MSc	(R)	Manmohan, MCom	(C)
Thakur, R. S., MSc	Lectr. (S)	Aggarwal, B. D., MCom LLB	(C)
Ramanathan, J. D., MSc	Lectr. (S)	Lele, R. K., MCom	(C)
Sareen, P. S., MSc	Lectr. (S)	Gupta, S. C., MA	(DAV)
Krishnamurthy, H. G., MSc	Lectr. (S)	Agarwal, O. P., MCom	(DAV)
Dharmaraja, O. P., MSc	Lectr. (S)	Gupta, C. B.	(C)
Atreyi, Miss Mahalakshmi, MSc	Lectr. (S)	Vohra, M. L.	(C)
Jain, D. S., MSc PhD	Lectr. (S)	Chandra, S.	(SD)
Chandra, K., MSc	Lectr. (S)	Kaura, M. M.	(DS)
Chauhan, Mrs. Lalita	(L)	Gupta, M. K.	(DS)
Raphael, C. J., MSc PhD	(S)	Saxena, R. G.	(DS)
Kishan, N. R., MSc	(S)	Gupta, R. L.	(C)
Parthasarathy, R., MSc	(H)	Kumar, V.	(DAV)
Rastogi, M. K., MSc	(H)	Mehrotra, P. S.	(WAF)
Trehan, J. C., MSc	(R)	Bhatia, S. S.	Reader
Khalbe, J. C., MSc	(D)	Burman, Miss S. G.	Lectr.
Vij, P. K., MSc	(HR)	Srinivas, Mrs. Rulamani	Lectr.
Bhushan, V., MSc	(HR)	Dayal, E.	Lectr.
Saxena, V. P., MSc	(KM)		
Malhotra, S. P., MSc	(DB)	<b>Economics</b>	
Parthasarathy, M. R., MSc	Lectr.	Ganguli, B. N., MA PhD Calc.	Prof. (S)
Sarangadharan, M. G., MSc	Lectr.	Raj, K. N., MA	Prof. (S)
Pruthi, B. N., MSc	(SD)	Bhatia, D. H., MSc PhD	Reader (S)
Krishnan, N. R., MSc	(DB)	Pant, N. K., MCom	Reader
Sandhu, M. L., MSc	(DB)	Ghosh, A. B., MA	Reader (DS)
Chohan, S. D., MSc	(R)	Nag, S. P., MA	(DS)
Chatterji, S. K.	(S)	Asantha Rao, S. R., MSc	(DS)
Upadhyaya, K. N.	(R)	Sivasubramanian, S. M. A., MSc	(DS)



Ghose, D. C., MA PhD <i>Pooy.</i> , MSc <i>Lond.</i>	(S)	Jaun, T. N., BCom MBA	Reader
Singh, Balraj, MA	(S)	Krishna, K. L., MSc	Lectr
Bhatia, B. M., MA	(H)	Mathew, T. MA	Lectr
Machur, K. P., MA	(H)	Baya, J. M. L., MA	Lectr
Mahadwey, S. K., MA	(H)	Noelangantham, K., MA	Lectr
Krishnak, O. P., MA	(H)	Mehta, S. S., MA	Lectr
Agarwal, A. N., MA <i>Alld</i>	(R)	Ray, N. C., MA	(S)
Sengul, B. R., MA <i>Pooy.</i>	(R)	Kurian, K. M., MA PhD	(S)
Choudhury, G. S. R., MA	Lectr	Priem Chand, MA	(S)
Nam, A. R. G.	[Lectr (DSE)]	Gupta, K. L., MA	(H)
Rao, V. K. R. V., MA PhD DLitt	Prof (BG)	Gupta, D. B., MA	(R)
Dhar, P. N.	Prof (BG)	Verma, P. C., MA	(R)
Khusro, A. M.	Prof (BG)	Lajpat Rai, MA	(D)
Chatterji, N. R.	Lectr (DSE)	Khullai, M. M., MA	(D)
Narain, R., MA	(C)	Ahmad, I., MA	(D)
Andley, K. K., MA	(C)	Haslam, S. G., MA	(D)
Rao, D. K., MA	(C)	Chugh, L. C., MA	(C)
Sundaram, K. P. M., MA	(C)	Singh, C. G., MA	(K)
Choudhuri, N. R., MA <i>Doces</i>	(D)	Menon, Mrs. P., MA <i>MEd</i>	(LI)
Mark, I. R., MA <i>Agri</i>	(D)	Kataria, Mrs. S., MA	(LSR)
Ghosh, R. N., MA	(on leave) (D)	Choudhuri, D. P.	(HR)
Khatni, J. D., MA <i>Pooy</i>	(HR)	Kapil, Miss Uma S.	(M)
Kausiketty, Miss C. K., MA <i>Modr.</i> , MSc <i>Lond.</i> , LT	(I)	Anagol, Miss M.	(I)
Bose, Miss Manta, MA BT	(I)	Jain, Miss Madulu	(I)
Mehta, Mrs. Shakuntala, MA	(I)	Menon, Miss Indira	(P)
Srinivasa, Miss Snehl L.	(I)	Rao, Mrs. S.	(JD)
Gupta, Miss Shashi, MA	(LSR)	Rani, Miss Kamla	(JD)
Jankamma, Miss A. C., MA <i>Modr.</i>	(M)	Govil, Mrs. S.	(JD)
Sastri, Miss Kanthamathi, MA MLitt	(on leave) (M)	Donal, G. C.	(SV)
Mehta, D. D., MA	(KM)	Nagawahan, L. P.	(SV)
Mishra, B. S., MA	(KM)	Chakravarty, Miss Minotti	(LSR)
Singh, U., MA	(K)	Sabharwal, A. S.	(K)
Khanra, J. S.	(K)	Samra, A. S.	(KM)
Chandra, G.	(C)	Sethi, J. D.	Reader
Bhatia, H. L., MA	(C)	Lal, K.	Lectr.
Bhalla, Miss Jai R., MA	(M)	Menon, Miss R. A.	Lectr.
Bose, A., MA	(KM)	Ghosh, S. K.	Lectr.
Singh, Dalip, MA	(on leave) (KM)	Singh, Balwant	Lectr.
Das Gupta, A., MA BCom	Prof. § (DSE)	Gupta, P. S.	Reader
Dham, P. S., MA	(K)	Gupta, S. C.	Lectr.
Jangir, G. C., MA	(HR)	Ramchandani, Miss R., MA	(LSR)
Jayalaxmi, Miss R., MA <i>BE</i>	(M)	Verghese, Miss S. K., MA	(LSR)
Singh, J. J., MA <i>Pooy. &amp; Delhi</i>	(K)	Pandit, Mrs. Usha, MA	(LSR)
Kapoor, S. P., MA	(DB)	Dewett, K. K., MA PhD	(DS)
Kudsa, J., MA	(C)	Zutshi, Mrs. S., MA	(P)
Mannohan, H. K. S., MA MSc <i>Lond.</i>	(DSE) §	Ashra, M. C., MA	(DS)
Mathar, Mrs. S., MA	(I)	Mehta, S. C., MA	(DS)
Maglani, Miss Serla, MA	(LSR)	Trevodi, Mrs. Indira, MA	(LSR)
Minocha, V. S., MA	(D)	Bhargava, B. K., MA	(DAV)
Pylee, M. V., MA LL.M. DLitt	Reader (DSE)	Dutt, R., MA	(SD)
Raghavachari, Miss R., MA	(M)	Malhotra, P. N.	(DS)
Rao Madhav, BA <i>Camb.</i>	(S)	Seth, K. L.	(DS)
Kumar, R., MA	(DAV)	Mehta, L. N.	(D)
Sood, P. L., MA BCom	(C)	Bagal, K. D.	(DB)
Thavarnaj, M. J. K., MA	(S)	Poddar, A. K.	(DB)
Kulkarni, H. G., MA	(C)	Goyal, S. K.	(DB)
Gourie, Mrs. S., MA <i>MEd</i>	(LI)	Bhan, R. K.	(WAF)
Bose, Mrs. J., MA	(I)	Sodhu, B. S.	(WAF)
Mehavir, M. A., PhD	(DAV)	Chopra, R. N.	(DAV)
Nagpal, Miss S., MA	(I)	Kumar, R. S.	(DAV)
Girdhar, V. P., MA	(DB)	Malhan, R. C.	(DAV)
Naqvi, K. A., MA PhD	Reader	Parnami, P. N.	(DAV)
Deau, Mrs. P. R., MA PhD	Reader	Srinivasa, R. P.	(DAV)
		Gnanachandran, Mrs. N. G.	(LSR)

**Education**

Menon, T. K. N.		Puri, M. L.	(DP)
Roy, P. K., MA Calc, BEd Edw.	Prot (CIE)	Rutani, G. H.	(DP)
Mukhopadhyay, S. N., MA PhD	(CIE)	Singh, R.	(DP)
Dutt, Miss Sumti, MEd PhD	(CIE)	Sharma, D. N., BE	(DP)
Chari, Miss Ahalya, MA MEd III.	(CIE)	Brown, J., MA Edu, DIC, PhD	
Melaotra, R. N., MA BEd	(CIE)	DSc(Eng) Lond	(CET)
Gupta, M., MA BCom Dacca, BT	(CIE)	Kapoor, S. C., MTech	(CET)
Shukla, Mrs. S., MA MEd	(CIE)	Lamba, S. S., MTech	(CET)
Gourie, Mrs. Subramaniam, MA Bist & Madr., LT Mod	(LI)	Rammamorthy, M., ME	(CET)
Roy, Miss Bina, BA BT Calc.	(LI)		
Grewal, Mrs. Rajwani, BA MEd	(LI)	<b>Engineering, Mechanical</b>	
Nigam, D. S., MSc MEd	(CIE)	Sen, S. C., BSc Glas	(DP)
Pandey, B. N., MA MEd	(CIE)	Luthra, S. P., BSc(Engg) Pany, PhD	(DP)
Gupta, Mrs. S., MA BEd	(CIE)	Prakash, O.	(DP)
Rajpal, Mrs. L. P., MA BEd	(CIE)	Marchandani, I. S. D.	(DP)
Sharma, S. S., MSc BEd	(CIE)	Kapoor, T. R.	(DP)
Gode, H. A., BSc BT	(CIE)	Khosla, K. K., BE	(DP)
Kotiar, S. N., MA MEd	(CIE)	Pandey, G. P.	(DP)
Vidyalankar, A. K., MA LT	(CIE)	Sanyal, B. K.	(DP)
Dantayagi, Mrs. S., DipEd Brit., DSc LT	(LI)	Singh, Jagat	(DP)
Dulker, Miss D., MSc PhD	(LI)	Ahuja, B. K., PhD IIS, BA BSc(Engg) MTech	(CET)
Menon, Mrs. P., MA MEd	(LI)		
Khanna, S., MA MSc BEd PhD	(CIE)	<b>Engineering, Textile</b>	
Dutt, Miss B. C.	(CIE)	Somani, N. M., BSc Leach	(DP)
Rao, K. U.	(CIE)	Srivastava, R. N., BStext	(DP)
Mukerjee, A. K.	(CIE)	Goswami, J. B., MSc	(DP)
Prasad, Miss Leila	(CIE)	Sengupta, A. K.	(DP)
Jaswanti, J. K.	(CIE)	Jhalani, S. C.	(DP)
Verma, Miss R.	(LI)	Verma, H. K., LTM Bow	(DP)
		Seshadri, P. V., BSc(Text)	(DP)
		Saxena, K. S.	(DP)
		Dutta, B., BSc BText	(CET)

**Engineering, Civil**

Verma, V. N., BE	(DP)		
Rameswamy, H. S., BE	(DP)		
Puri, M. L.	(DP)	<b>English</b>	
Raghupati, M., BE	(DP)	Rajan, B.	Prof Reader
Sharma, N. K.	(DP)	Bahadur, U., MA PhD Edu.	(S)
Garg, M. R.	(DP)	Bhalla, M. M., MA Prof.	(S)
Ahmed, T.	(DP)	Jarva, Rev. W. A. W., MA Oxon	(S)
Sood, I. C.	(DP)	Rappel, W. S., MA LLB Luck	(S)
Chandiraman, G. P.	(DP)	Sena, V.	(S)
Coranah, R. J., MSc Manc, MICE	(CET)	Sood, P. C., MA Luck, BA Oxon.	(H)
Singh, Saranjit, BA BSc MS	(CET)	Gupta, R. R., MA	(H)
Kaul, B. K., BE MSc MS	(CET)	Rana, S. P., MA Prof	(H)
Krishnamoorthy, S., BE MS	(CET)	Nath, V., MA Prof.	(H)
Chander, S., MTech	(CET)	Mitra, E. N., MA	(H)
Natarajan, P., BE MSc	(CET)	Verma, P. C., MA	(H)
Roy, S. D., MS PhD Wlr, BTech	(CET)	Sharma, G. N., MA	(H)
Gangopadhyay, C. R., MS III, MTech PhD	(CET)	Desai, H. W.	(H)
Singh, Amarjet, BSc(Engg)	(CET)	Chopra, R. P., MA	(R)
		Sharma, R. C., MA	(R)
		Verma, B. L., MA	(R)
		Chadha, G. L., MA	(R)
		Chadha, P. L.	(R)
		Mathur, P. K., MA	(C)
		Mukerjee, G. C., MA Luck	(C)
		Lall, K., MA	(C)
		Kalia, B. K., MA Prof	(D)
		Chatterji, A. K., MA	(D)
		Ghosh, M. N., MA Dacca	(D)
		Kaul, A. N., MA Prof	(on leave) (D)
		Kapoor, A. N.	(DP)
		Bose, Miss K.	(N)

**Engineering, Electrical**

Narayanan, R. C., MSc Manc.	(DP)		
Venkataramana, T. R., BSc Mys	(DP)		
Ramabhadran, S., MA DipElectrComm	(DP)		
Ahmed, V.	(DP)		
Singh, B., MSc BSc(Engg) Ban	(DP)		
Rao, S. R., BE Madr.	(DP)		
Krishnamurthy, C., BSc BE MTech	(DP)		
Uppal, S. L., BE	(DP)		
Jain, M. M.	(DP)		
Ramaswamy, H. S.	(DP)		

- Pillai, Mrs. B. P., MA *Madr*  
 Thomas, Miss Saima, MA *Madr*, LLB  
 Gorowara, Miss Krishna K., MA  
 Khanna, Miss Urmala, MA  
 Padhi, Miss Shanti, MA  
 Sachdeva, Miss S  
 David, Miss H  
 Khan, Miss S  
 Parthash, G., MA *Pun*  
 Nazam, I., MA *Pun*  
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 Guha, J. P., MA  
 Vaid, K. B., MA *Pun*  
 Jena, B. A., MA  
 Bartholomew, Miss. R., MA  
 Adeshah, Miss S. K.  
 Ram, M., MA  
 Singh, A., MA  
 Sumnersole, D. M., BA *Comb*  
 Chopra, P. P., MA  
 Kunwar, N. C., MA  
 Mathia, U. S., MA  
 Mathur, T. C., MA  
 Paulsley, T. M., MA  
 Shah, S. R.  
 Raza, Miss Sada, MA  
 Banerjee, A., MA  
 Jangra, M. M. K., MA  
 Kaul, D. N., MA  
 Khazanchi, J. L., MA  
 Sri Venkatesh, MA  
 Som Nath, MA  
 Kaushik, R. K.  
 Rajkumar  
 Nagpal, Miss Prem L.  
 Gupta, R. S.  
 Wadhawan, M. N.  
 Zutshi, S. M.  
 Khare, H. D. S., MA  
 Rangachari, Miss J., MA  
 Ratnam, Miss R., MA  
 Seshadri, Miss P., MA  
 Shah, S. R., MA  
 Bhama, O. P., MA  
 Singh, G. D., MA  
 Singh, N., MA  
 Sanyal, D. K., MA  
 Kapoor, A. N., MA DPhil  
 Acharya, Miss Kamala, MA *Ovan. & Madr.*  
 Essaukoff, Mrs. Krishna, MA *Madr.*  
 Pashod, Miss Parnilla, MA *Cal. & Delh*  
 Dutt, Mrs. S  
 Sakand, Miss K.  
 Menon, Mrs. V.  
 Zaidi, Miss Z.  
 Chatterjee, Mrs. L.  
 Syngle, B. D., MA  
 Kohli, R. K., MA DPhil  
 Singh, Gobind, MA PhD  
 Vachher, S. L., MA  
 Chandra, H., MA  
 Bhalla, D. S., MA  
 Sud, R. K., MA LLB  
 Kanda, K. C., MA  
 Bakshi, N. S., MA
- (I) Bai Krishan, MA (DAV)  
 (I) Bose, K., MA (LI)  
 (I) Chet Singh, R., BA *Comb.* (S)  
 (I) Dastoor, H. P., MA PhD (LSR)  
 (I) Pal, D., MA (KM)  
 (I) Rama Rao, G. J. (KM)  
 (I) Ragendra Nath (KM)  
 (I) Dutt, Miss. Shanti, MA DT (M)  
 (HR) Goyal, D. R., MA (KM)  
 (HR) Gupta, R. C., MA LLB PhD (KM)  
 (HR) Jain, M. P., MA (R)  
 (HR) John, V. V., BA *Madr. & Ovan* (R)  
 (HR) Julla, S. P., MA (D)  
 (S) Kakara, J. P., MA (H)  
 (I) Kapoor, S. P., MA (D)  
 (M) Khanna, Mrs. Savitri, MA (JD)  
 (KM) Kamalakar, M. J. (LI)  
 (KH) Kidwai, S. A., MA (D)  
 (S) Krishnasami, Miss. S., MA *Mys. & Lond* (M)  
 (S) Marwa Viloo, Miss. K., MA (LSR)  
 (H) Nataraj, Mrs. V. (P)  
 (H) Joshi, Miss V. (P)  
 (R) Muttu, Miss Maya, MA (M)  
 (R) Nehal, C. L., MA JD (DB)  
 (R) Nair, Miss Malathi, MA (LSR)  
 (D) Narayanaswami, Mrs. Radha, MA (K)  
 (D) Kadambari, Miss S. (JD)  
 (DS) Khanna, Miss. S. (JD)  
 (D) Wadhwa, Miss G. (JD)  
 (D) Bhattacharya, Miss A. (JD)  
 (D) Singh, Sarup, MA PhD *Lond.* (KM)  
 (D) Uttam Singh, Miss S., MA (I)  
 (D) Yunus, Miss L., MA (LI)  
 (D) Zahoor, Miss Aruna, BA *Ovan*, MA (M)  
 (D) Williamson, Miss O., MA (I)  
 (D) Mohan, B., MA (HR)  
 (D) Arora, S. M., MA (HR)  
 (D) Siddhu, P. S., MA (KH)  
 (C) Das, D., MA (DAV)  
 (I) Bhargava, P. S., MA (DAV)  
 (I) Sehgal, G. D., MA (DS)  
 (I) Grewal, G. P. S., MA (DS)  
 (HR) Ramji Lal, MA (DS)  
 (KM) Singh, M., MA (K)  
 (KII) Marjara, H. S., MA (K)  
 (KH) Isakani, G. S., MA (K)  
 (DP) Dhawan, Y. P., MA (DB)  
 (DP) Jain, J. K., MA (DI)  
 (M) Raykumar, Miss N., MA (LSR)  
 (M) Das, Miss P. N., MA (LSR)  
 (M) Rahman, Mrs. S., MA (LSR)  
 (M) Bhaskar, P. N., MA (DAV)  
 (M) Dhooan, R. L., MA (DAV)  
 (M) Jungalwalia, Mrs. P. N., MA MLatt (JD)  
 (M) Kapoor, Miss U., MA (JD)  
 (M) Dhar, Miss B. V., MA (P)  
 (KM) Swam, Mrs. H. Lata, MA (K)  
 (KM) Ray, Mrs. P., MA (LSR)  
 (K) Daniels, Molly, MA (LSR)  
 (CCA) Gul, Mrs. Jyoti, MA (LSR)  
 (DB) Pantul, Mrs. B. K., MA (LSR)  
 (DB) Khanna, R. K., MA (DAV)  
 (DB) Yudhishter, MA (SD)  
 (DB) Kochar, M. L., MA (SD)  
 (R) Haider, S., MA (H)

Singh, P.	(DB)	Singh, V P	(KM)
Mago, K. N	(DB)	Ramam, Miss S	(JD)
Kohla, S P	(DB)	Hala, J. H.	(S)
Lal, R	(DS)	Mukherjee, H. L.	(KM)
Singh, Krishan	(DS)	Kosari, H. S., MA PhD	(H)
Dhollan, M. S	(DS)	Mathur Dayal, R, MA	(DAV)
Dawani, C J	(DS)	Sawhney Singh, S., MA LLB	(K)
Sharma, S. R	(DS)	Sood, Miss Seva	
Malik, J. C	(DS)	Saxena, B. B., MA	(DB)
Sidhu, C. D	(HR)	Urmila, Mrs J. Rana, MA	(LSR)
Krishna, G	(DAV)	Pal, Y., MA	(R)
Bhatia, J. C	(DAV)	Panigrahi, D. N., MA PhD	(K)
Nath, P	(SD)	Sethi, B. S.	(K)
Kanwar, W. S	(K)	Randhawa, D. S.	(K)
Lamba, L. S.	(K)	Kapoor, Miss U., MA	(I)
Pal, H	(K)	Grover, B. L., MA	(HR)
Anand, Miss S	(P)	Chakravasthy, S., MA	(S)
Chaudhry, Miss S	(LSR)	Shyam, R., MA PhD	(H)
Rehman, Mrs S	(LSR)	Sahgal, S. C., MA	(H)
Rajan, Mrs Chandan	(LSR)	Srivastava, U. S., MA	(R)
Bajaj, Mrs U	(LSR)	Dua, R. P., MA	(D)
Kaushal, Miss V	(LSR)	Ashwalia, M. M.	(DB)
Singh, Anand	(PGE)	Singh, Gurbax	(DB)
Chatterji, R. K	(PGE)	Ora Prakash, MA PhD	(KM)
Das, G. K	(PGE)	Sethi, P., MA	(KM)
Banerjee, O. K	(PGE)	Nath, Mrs. L., MA	(LSR)
Shukla, Indrakanta	(SV)	Sud, Miss S. L., MA	(LSR)
Subramanian, G. V	(SV)	Banerjee, Miss Leena	(LSR)
Chand, P.	(WAF)	Dhawan, Miss U.	(LSR)
Chowla, S. K.	(WAF)	Bhatnagar, Miss A.	(LSR)
		Kaushal, Miss S., MA	(JD)
		Bhatia, Miss P., MA	(P)
		Dey, Miss P., MA	(M)
		Khanra, Miss I., MA	(M)
		Sobti, Miss S., MA	(M)
		Madhok, B., MA	(DAV)
		Singh, F., MA PhD	(KH)
		Sharma, D., MA	Reader§
		Gupta, Mrs. K., MA	(LSR)
		Bakshi, Miss S., MA	(LSR)
		Tripathi, G. P., MA	(SD)
		Mathur, Miss Sarita, MA	(JD)
		Mulhotra, P. L., MA	(DS)
		Sharma, K. L., MA	(DS)
		Dwivedi, P. S., MA	(S)
		Randhawa, S. S., MA	(K)
		Agarwal, M. L.	(DAV)
		Singh, Gurdial	(DS)
		Singh, Pooja	(PGE)
		Grover, B. R.	(PGE)
		Day, U. N.	(PGE)
		Venkatarama, E.	(SV)
		Vatsa, R. S.	(WAF)
		<b>Home Science (LI)</b>	
		Doongar, Miss Sheria, MSc Wisc.	
		Sampson, Annie, DipHomeSc DipHyg TD	
		Dantya, Mrs. Suzila, BA I.T TD	
		DipHomeSc Madr	
		Deshpande, Mrs. Rensini	
		Puri, Miss. Nirmal	
		Randhawa, S., BA DipHomeSc TDD	
		Deulkar, Miss D., MSc(HomeSc) Sp.,	
		PhD Course	
		Mall, Miss Shakuntla	

Puri, Miss B., MSc PhD  
 Kapoor, Miss J., BScHomeSc MSc  
 Arora, Miss C., MSc  
 Khambatta, Miss D., BA  
 Balur, Miss A., MSc  
 Narang, Miss B., MSc  
 Bhargava, S  
 Nanda, Miss Kanta  
 Samby, Miss P.

### Italian

Abhuwalia, R. S

Lectr

### Law

Sivasubramanian, L. R., BA ML  
 Ramaswamy, M., BA BL  
 Jain, M. P., BA LLM JSD  
 Sarkar, Mrs. Latika, BA LLB PhD  
 Shrivasth, M. L., MA LLM BCom  
 Tripathi, P. K., BSc LLM JSD  
 Goel, R. K., BA BCL LLM  
 Beda, A. S., BA LLM  
 Rohitagi, K. B., BCL LLM JSD  
 Dhan, S., BA LLM  
 Gupta, C. P., MA LLM JSD  
 Darya, H. R., MA LLM  
 Singh, D. Kumar, LLM MSc PhD  
 Kaggi, M. C. J., BSc LLM  
 Nigam, K. K., LLM  
 Verma, V. P., BA LLM  
 Saxena, J. N., LLM  
 Walu, R. S., BSc LLM MA (on leave)  
 Sen, G. M., ML BSc  
 Sivasubramanya, B., ML BSc  
 Pannaswami, K., ML BSc  
 Kulkar, R. V., LLM  
 Raj, V. C. G., BA ML  
 Singh, Ajit, MA LLM  
 Deshmukh, U. M., BA LLM  
 Rao, P. P., BA LLM  
 Sandhu, R. S., BSc BCL  
 Kohli, B., MA LLM  
 Rao, N. S. P., BA LLM  
 Rohitagi, A. B., MA LLB  
 Chowla, T. P. S., BA LLB  
 Misra, V. D., MA LLB  
 Mehta, K. B., MA LLB

Prof

Prof.

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Lectr

Lectr

Lectr

Lectr

Lectr

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Lectr

### Library Science

Smith, S. S., MA DipLibSc  
 Srivastava, A. P., MA DipLibSc  
 Kapoor, A. L., MA DipLibSc  
 Agarwal, D. S., MA MLabSc  
 Mangla, P. B., MA DipLibSc  
 Kumar, K.  
 Kambur, Mrs M  
 Sunderam, Mrs V. K.

Reader

Lectr

Lectr

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Lectr

Lectr

Lectr

### Mathematics

Behari, R., MA PhD ScD Camb.  
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 Gupta, H. C., MSc PhD  
 Gulati, R. L., MSc PhD

Prof

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Reader

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Banerjee, S. K., MSc  
 Bhattacharyya, P. B., MSc *Alid*, PhD  
 Saha, S. C., MA Camb.  
 Nagpal, S. R., MA  
 Mathur, S. B.  
 Bhatia, R  
 Stone, A. P.  
 Mitra, J. N., MA  
 Gupta, P. D., MA  
 Saxena, C., MA  
 Senghal, M. K., MA  
 Mehra, H. R., MA *Pap.*  
 Bhatnagar, K. B.  
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 Gupta, Mrs. Sushila  
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 Singh, Mrs. Sardar M., MA  
 Pandey, Miss Normal, MA PhD  
 Pahlwa, Miss S., MA  
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 Jain, B. S., MA  
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 Singh, R., MA  
 Kulkar, R. L., MA  
 Aggarwal, R. K.  
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 Gupta, J. D., MA  
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 Sahra, Miss Indumati  
 Prakash, Miss N  
 Mathur, Miss Raj R  
 Quzenamar-wadim  
 Pajara, L. R.  
 Shankar, H., MA  
 Jain, P. C., MA  
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 Lethm, S. M., MA PhD  
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 Majumdar, Miss Sanigdha, MSc  
 Shanti Narain, MA  
 Singh, O., MA  
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 Malhotra, D. K., MA  
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Lectr.  
 Reader  
 (S)  
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 (DB)  
 (DB)  
 (SD)

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		Setu, R. N., MB BS	(MAM)
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		Kapoor, B. K., MB BS	(MAM)
		Sharma, S. P., MB BS	(MAM)
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Basu, C. K.	Lect.
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Chakravarty, Mrs. Nimita, MA	(I)
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Malik, Miss Sumon	(D)
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Sharma, S. A., MA	(D)

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Singh, B., MA	(PGE)	Jerath, S. K., MSc	(KM)
Bose, N., MSc	(PGE)	Bahin, K. S., MSc	(KM)
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Sena, Miss Bimla	(LSR)	Nagar, A. S., MSc	(S)
Jain, Miss Sharda, MA LLB PhD	(LSR)	Anand, S. R., MSc	(H)
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Ghosh, S. P., MA DPhil	Lectr	Kohli, B. J., MSc	(R)
Gupta, R. K., MA DPhil Bous	(S)	Mital, R. S., MSc	(R)
Kaul, B. N., MA	(R)	Sharma, R. C., MSc.	(R)
Bhatia, V. D.	(LI)	Dube, N. K., MSc	(D)
Gupta Sen, Mrs L.	(LI)	Bhatia, T. S., MSc	(D)
Kapur, R. L.	(LI)	Gupta, B. K., MSc	(HR)
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Das Gupta, P., MA	(LSR)	Singh, H., MSc	(KH)
Roy, Mrs. Archana, MA	(LSR)	Singh, T., MSc	(KH)
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Rao, R. N., MSc Dipol Alld	(SD)	Bhatia, V. B., MSc	(SD)
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Singh, H., MSc	Lectr.†	Dwarakadas, R	Reader†
Ram, M., MSc PhD	Lectr.†	Sharma, B. S., MA PhD	Lectr.†
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Mathwa, M. K., MSc	Lectr.†	Gupta, N. L., MA	(KM)
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Chandra, R., MSc	Lectr.†	Singh, Randhir, MA	(D)
Mathur, P. C., MSc	Lectr.†	Samkhara, M. M., MA	(H)
Bajaj, K. K., MSc	Lectr.†	Suri, C. L., MA	(KM)
Kawatra, M. P., MSc	Lectr.†	Thakurdas, P. S., MA	(KM)
Pothela, R. K., MSc PhD	Lectr.†	Vohra, M. L., MA	(C)



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(DB)	Gupta, Mrs. Vimla, MA	(M)
(LSR)	Sharma, Mrs. Shukuntala, MA	(M)
(DS)	Chugh, S. P., MA	(KM)
(DS)	Singh, Hachhapan, MA	(K)
(SD)	Awasthi, B. B., MA	(K)
(JD)	Kumar, M., MA	(K)
(DS)	Gupta, S. C., MA	(DB)
(DS)	Bal, T. N. M., MA	(KM)
(DB)	Bamla, Miss Rama, MA	(R)
Lectr	Goel, U. Y. K., MA PhD	(R)
Lectr	Gulati, Miss Saroj, MA	(L)
(H)	Gulati, H., MA	(DAV)
(H)	Mahajan, B., MA	(H)
(D)	Malhotra, Miss Usha, MA	(M)
(K)	Jan, Mrs Nirmala, MA	(LSR)
(LSR)	Ojha, K. P., MA	(C)
(JD)	Darshan, S. P., MA	(J)
(P)	Parshad, R. K., MA	(DB)
(KM)	Sharma, Mrs. Sudha, MA	(M)
(D)	Tiwari, B. N., MA DPhil	(KM)
(I)	Verma, Miss Santosh, MA	(LSR)
	Singh, Miss M., MA	(I)
	Bhat, M. R. M., MA	(H)
Reader	Goel, Miss Kusum	(LSR)
Lectr	Pal, J., MA Vidyasankar	(HR)
Lectr	Lal, K., MA	(DAV)
Lectr	Usha, Miss. Satyavrat	(LSR)
Lectr	Sharma, R. L., MA	(D)
	Verma, Miss A.	(M)
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	Arora, S., MA	(P)
Prof	Rao, Miss., MA LLB	(LSR)
Prof.	Bhansinger, Mrs. H., MA LLB	(JD)
Reader	Pushpa Puri, Miss, MA	(JD)
Reader	Kumari, A., MA	(P)
Lectr.	Gupta, Mrs. A., MA PhD	(JD)
Lectr.	Puri, Miss. U., MA	(P)
	Sharma, G. R., MA PhD	(KM)
(S)	Gupta, C. B., MA Dlett	(H)
(R)	Chaudhuri, Mrs. S., MA	(M)
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(D)	Grover, Miss S., MA	(LJ)
(D)	Kaushik, Mrs. G. R. K., MA	(LSR)
(D)	Sharma, Miss U. R., MA	(LSR)
(D)	Passi, Mrs. Krishna, MA PhD	(LSR)
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(D)	Aiya, Miss U., MA	(LSR)
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(I)	Gupta, S. C., MA PhD	(SD)
(I)	Bhardwaj, J. C., MA	(SD)
ave)	Roon Narain, MA	(H)
(I)	Sant, D. C., MA	(DS)
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Lectr.	Sharma, Mrs Shukuntal	(LSR)
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Chand, S.	(HR)	Mokhesjee, Miss S., MA	
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Sharma, L. M.	(DB)		
Dabas, P. S.	(DB)	<b>Spanish</b>	
Kishan, B.	(DB)	Mencos, X.	Hon. Lectr.
Nirash, S. P.	(DB)		
Trehan, Miss S.	(LSR)		
Ojha, Miss Indu M.	(LI)	<b>Urdu, see Persian and Urdu</b>	
Rani, Binla	(LI)		
Kumar, Mahendra	(DAV)		
Joshi, K. D.	(DAV)	<b>Zoology</b>	
Bal, K.	(DAV)	Joshi, L. N., DSc	Reader §
Kumar, Prashant	(DAV)	Chand, Mary, PhD	Reader §
Sharma, N. N.	(DAV)	Saxena, K. N., MSc DPhil <i>Alld.</i>	Reader §
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Prakash, O.	(DS)	Menon, P. S., MSc	Lectr. §
Blasnet, G. K.	(DS)	Sankar, H. L., MSc	Lectr. §
Singh, Ranvir	(DS)	Rajamannar, P. V., MSc	Lectr. §
Goswami, S. B.	(P)	Majumdar, N. N., MSc PhD	Lectr. §
Arora, Miss Sudarshan	(P)	Sudarshan, Miss, MSc	Lectr. §
Joshi, Miss Indra	(P)	Pillai, M. K., MSc	Lectr. §
Mulhotra, Mrs. Sudarshan	(P)	Vijaykumar, Mrs. Zena	Lectr. (LI)
Mehru, Miss K. B.	(JD)	Nagar, S. K., MSc	Lectr. (D)
Sharma, Mrs. S.	(JD)	Singh, K., MSc	Lectr. (K)
Verma, Miss P. L.	(JD)	Dass, C. M. S., MSc PhD	Lectr. §
Abral, Miss S.	(JD)	Sehadri, Miss C., MSc PhD	Lectr.
		Prasad, M. R. N., MSc PhD	Lectr.
		Sengal, S. S., MSc PhD	Lectr.
		Moona, J. S., MSc	(R)
		Ahmad, S., MSc	(D)
		Kaul, P. M., MSc	(DB)
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**Sindhi**

Jhangiani, S. M., MA

**Social Work (SW)**

Gore, M. S., MA DipSSA

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 Master, Jubilee Hall : M. C. Shukla, BCom  
 Sec. to Vice-Chancellor : H. Chaudia, MA  
 Dep. Registrar : S. K. Senkar, MA BL Sports  
 Officer : S. C. Nanda, MA. Asst. Registrar, Fac.

of Sci. H. Gopal, BA LLB. Asst. Registrar  
 (Exam.) : K. N. Thurn, BA Asst. Registrar  
 (Accounts) : K. Chaudhary, BA (Com) Information  
 Officer : T. V. Raghavan, MA Dipl. : Med  
 Officer : A. K. Bhargava, MD (on leave).

## CONSTITUENT COLLEGES AND INSTITUTIONS

[(CIE), (D), etc. = abbreviations for the colleges in Teaching Staff list, above, BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

**DELHI, Central Institute of Education (CIE), Univ. Enclave** (tel. 25500) BEd, MEd and res. Principal—T. K. N. Menon 21 other Teachers

**DELHI, Delhi College (D), Amera Gate** (tel. 26802). Preparatory, pre-med., BA, BSc, BCom, BA (hons.), BSc (hons.), MSc, MA, MCom Principal—M. M. Begg, MA 90 other Teachers.

**DELHI, Delhi Polytechnic (DP), Kashmere Gate** (tel. 24870) BSc (in chem., civil, elects or mech. engin., or textile technol.) Principal—S. C. Sen, BSc Glas. 65 other Teachers.

**DELHI, Delhi School of Economics (DSE), Univ. Enclave** (tel. 28121/22). Postgrad. dipl. in econ. admin. and business management, MA (in econ., econ. stats., geog., sociol.), MCom and res. Dir.—Prof. B. N. Ganguli, MA PhD Calc. 36 other Teachers

**DELHI, Delhi School of Social Work (SW), University Rd.** (tel. 23991) MA (soc. work) Principal—M. S. Gora, MA. 14 other Teachers.

**DELHI, Deshbandhu College (DB), Kalkaji** (tel. 34565). Preparatory, pre-med., BA, BSc, BA (hons.). Offg. Principal—R. K. Sud 54 other Teachers

**DELHI, Hansraj College (HR)** (tel. 26747). Preparatory, pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc Principal—S. Narayan, MSc 43 other Teachers.

**DELHI, Hindu College (H), Univ. Enclave** (tel. 24345) Preparatory sci., pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—R. N. Mathur, MA. 57 other Teachers.

**DELHI, Indraprastha College for Women (I), Alipore Rd.** (tel. 26253). Preparatory, BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—Miss Inamti Dns Gupta, MA Calc. 55 other Teachers.

**DELHI, Institute of Economic Growth (EG), Univ. Enclave** (tel. 226242) PhD Dir.—V. K. R. V. Rao, MA PhD DLitt 5 other Teachers.

**DELHI, Institute of Postgraduates (Evening) Studies (PGE), Univ. Enclave** (tel. 225334) MA. Principal—G. L. Chandratroya, MA. 43 other Teachers

**DELHI, Kinnor Mal College (KM)** (tel. 26861). Preparatory, pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc Principal—Serap Singh, MA PhD Lond. (on leave). 55 other Teachers

**DELHI, Miranda House (M), Univ. Enclave** (tel. 28123/ext. 15). BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—Mrs. S. Krishnaswami, MA. 46 other Teachers.

**DELHI, Ramjas College (R), Univ. Enclave** (tel. 23706) Preparatory, pre-med., BA, BSc, BCom,

BA (hons.), BSc (hons.), MA, MSc Principal—B. B. Gupta, MA. 42 other Teachers.

**DELHI, St. Stephen's College (S), Univ. Enclave** (tel. 25086) BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—S. C. Sircar, MA Camb 35 other Teachers

**DELHI, SGTB Khosla College (K), Karol Bagh** (tel. 53380) Preparatory, pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc Principal—G. S. Bal, MSc 52 other Teachers

**DELHI, Shri Ram College of Commerce (C), Univ. Enclave** (tel. 23995) BA (hons.), MA, BCom, MCom. Principal—J. N. Vash, MA Calc, FCA 34 other Teachers.

**DELHI, Vallabhbhai Patel Chest Institute (VP)** (tel. 23846). MSc, MD, DTD, cert. in med. lab. technol. Dir.—R. Viswanathan, BA MD DTD, MRCP 24 other Teachers.

**NEW DELHI, College of Engineering and Technology (CET), Hrus Khas** (tel. 75806). BSc (in chem., civil, elects. or mech. engin., or textile technol.). Principal—R. N. Datta, DIC, BA MSc Lond., MIE (India) 20 other Teachers

**NEW DELHI, College of Nursing (N), Jaswanti Singh Rd.** (tel. 41/evnt. 135) BScN (hons.), MSc (in nursing). Principal—Mis. A. Gupta 39 other Teachers (including 14 External Lectrs).

**NEW DELHI, Dyal Singh (Day) (DS), Rouse Ave.** (tel. 47990). Preparatory, BA, BA (hons.) Principal—K. K. Dewett, MA PhD. 34 other Teachers

**NEW DELHI, Dyal Singh (Evening) Camp College** (tel. 40999) Preparatory, BA Principal—K. K. Dewett, MA PhD. 22 other Teachers.

**NEW DELHI, Janki Devi Mahavidyalaya (JD), Rouse Ave.** BA, BA (hons.). Principal—Mis. P. N. Jungalwalla, MA MLitt 21 other Teachers.

**NEW DELHI, Lady Hardinge Medical College (LHMC)** (tel. 47201). MB BS, MD, MS, MSc, dipl. in child health, dipl. in anaesthsia. Principal—Mrs. M. Chaudhuri, MB BS, FRCS. 74 other Teachers.

**NEW DELHI, Lady Irwin College (LI), Sakinaka Rd.** (tel. 47747). BScHomeSc, BEd, MSc (in nutrition). Director—Mrs. E. Tina Bai, MA. 40 other Teachers.

**NEW DELHI, Lady Shri Ram College for Women (LSR)** (tel. 27388) Preparatory, BA, BA (hons.), MA. Principal—H. P. Dastoor, MA PhD. 56 other Teachers.

**NEW DELHI, Maulana Azad Medical College (MAM)** (tel. 45262) MB BS, MSc (in physiol.), dipl. in child health Principal—Col. B. L. Taneja, MD, MRCP. 66 other Teachers

NEW DELHI, *P G D & V College* (DAV) (tel : 48386) Preparatory, BA, BSc, BA (hons), BSc (hons). Principal—R N. Chopra, BA *Leeds*, MSc MA 33 other Teachers.

NEW DELHI, *Panola College* (P), Harding Ave. (tel : 40810) Preparatory, BA. Principal—D. A. Upadhyaya, MA LT. 18 other Teachers.

NEW DELHI, *Savitai Dharma College* (SD), Anand Parbat (tel. 55530). Preparatory, BA. Principal—R N Rai, MSc PhD. 18 other Teachers.

NEW DELHI, *School of Planning and Architecture* (SPA), Indraprastha Estate (tel 45892) BA Arch Dir—T J Manscken, BA Arch Dipl(CivaeDes Liv, BSc, BE, FRIBA MIE (India) 18 other Teachers.

NEW DELHI, *St Vashistha College* (SV), Rouse Ave (tel : 48378). BA. Principal—Y. V. Ramana, MA BEd 12 other Teachers.

NEW DELHI, *W A F Memorial Shriya College* (WAF), Najafgarh BA. Principal—R K Bhan, MA PhD Lond 11 other Teachers.

## GENERAL INFORMATION

The Univ was established by the Delhi Univ Act (Act VIII of 1922). The original idea of the Govt and legislature was the establish and incorporation of a unitary teaching and residential Univ on the model recommended by the Calcutta Univ commission. However, this could not be achieved at once, and the Univ. continued to recognize several colls in which instruction was provided under prescribed conditions and provision was made for residence of students.

From 1933, when the Univ. was given a permanent home in the old vice-regal lodge, the idea of a federal Univ gradually took shape and the last decade has witnessed rapid growth and development. Owing to the large influx of population after 1947, the number of students increased considerably and new colls. were started. The Univ. also accepted the extension of the degree course from 2 yrs. to 3 yrs. as part of the reconstruction scheme for higher sec. educn. in Delhi. The scheme included the abolition of the inter exam., the extension of the high sch. course by 1 yr. (i.e. extension from 10 to 11 yrs.), and the institution of a 3-yr. degree course in the Univ. (see below).

The Delhi Univ. Amendment Act, 1952, has made important changes, based on recommendations of the Univ. educn. commission, 1950. The Univ. is now a teaching and affiliating Univ. Affiliated colls (there are none at present) will be permitted to impart instruction, only up to the bachelor's degree. The jurisdiction of the Univ. extends over the whole of Delhi state, instead of being limited to a radius of 10 mls. from convention hall. The President of India, who was the chancellor, has now become the visitor of the Univ. and the chancellor is elected by the court. The vice-chancellor is a whole-time paid officer. Provision has also been made for the appt of a pro-vice-chancellor to assist the vice-chancellor.

**CONSTITUTION.** The chancellor is the head, the vice-chancellor the principal executive and academic officer, of the Univ. The following are the principal Univ. authorities: the court, consisting of about 100 members, the executive council, which consists of about 17 members and controls and administers Univ. property and funds; the academic council, which is responsible for the maintenance of standards of instruction,

educn. and examn. within the Univ. Each fac., subject to the control of the academic council, has charge of the teaching, courses of study and res. work in such subjects as may be assigned to it by the ordinances.

**FACULTIES AND DEANS.** *Arts*, Prof. N N Choudhury (Sanskrit); *educn.*, B. A. Puri; *law*, Prof. L R Sivasubramanian; *med. sci.*, Dr. R. Viswanathan; *music & fine arts*, R L Roy; *sci.*, Prof P. C. Biswas (anthropol.), *soc. sci.*, Prof C. J Chakro (pol. sci.), *technical*, Principal S. C. Sen (mech. engin.)

**LIBRARIES.** Central Univ. library, 1,49,614 vols., also dept. libraries. Libraries of constituent colls, more than 404,684 vols.

### BOTANICAL MUSEUM.

**ADMISSION.** Students are not eligible for admission to a degree course unless they have passed the inter exam. of an Indian Univ. incorporated by any law for the time being in force, or the higher sec. exam. of the bd. of higher sec. educn. for Delhi state, or an examn. recognized as equivalent, and also possess any further qualif. required. Candidates for admission must be 16 or, if admitted to the 2nd yr. of a degree course, 17 yrs. of age.

**NON-MEMBERS OF THE UNIV.** The dean of a fac. may permit a non-member of the Univ. to attend one or more courses of Univ. lectures or practicals on payment of the prescribed fees. Any person so admitted shall not be entitled to appear in any exam. of the Univ., but the dean may grant a cert. attesting that he has attended the course.

**FIRST DEGREE.** 3 yrs. from preparatory—BA pass, BA hons. (in econ., Engg., hist., langs., maths., philos., pol. sci., mathl. stats., philos. & econ. & pol. sci., pol. sci. & law), BSc pass, BSc hons. (in bot., chem., maths., phys., zool), BScHomeSc, BCom; 3 yrs. from preparatory—BScN hons., BSc (in chem., civil, electr. or mech. engin., or textile technol.), 5 yrs. from inter or high sec. exam.—BArch, MB BS (plus 1 yr. post-exam. practical trg.).

**HIGHER DEGREE.** 1 yr.—BEd, MEd (after BEd); 2 yrs.—MA (in African studies, econ., econ. stats., hist., langs., maths., mathl. stats., philos., pol. sci., psychol., soc. work, sociol.),

MSc in fac. of sci (in anthropol, bot, chem, phys, zool.), MSc in fac. of med (in anat, bacteriol, nursing, nutrition, physiol, pharmacol), MCom, MLlibSc (after dipl in libr sci), MD (in med, obstet & gynaeol, pathol), MS, LL.M (after BCL or LLB); 3 yrs — LLB, BCL, 1st degree — LL.D, Ph.D.

**DIPLOMAS** Russian, 1 yr. after oert in Russian, Hindi, Pansabi, Urdu, each 2 yrs; business management, 3 yrs; anaesthesia, child health, econ adman., libr sci., tuberculous dis., each 1 yr. postgrad

**CERTIFICATES** French, German, Italian, Hausa, Swahili, med lab technol, proficiency in law (Pansab), translation (Hindi-English), each 1 yr, proficiency in Russian, 1 yr with double periods

**WOMEN'S EDUCATION** There is an advisory bd of women's (non-collegiate) educn. Women are allowed to appear privately, through this bd, at BA, MA and LLB exams. The bd also organizes preparatory courses in the evg. for women students.

A scheme of **CORRESPONDENCE COURSES** began in July 1962.

**FEEs.** Min. tuition fees payable for 12 mos.: undergrad. courses, Rs. 15 p.m., postgrad courses, Rs. 18 p.m. Cost of living (incl. coll. residential fees) varies from Rs. 100 to Rs. 125 p.m.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.): July 16 to Oct. 3; Oct. 14 to Dec. 23, Jan. 4 to April 30.

**LANGUAGE OF INSTRUCTION** English is the lang. for all degree courses except in the med. Indian langs. courses, where the lang. concerned is used. Students have the option of using Hindi in the admission exam. in the facs of arts and soc sci and in all subjects in the qualifying and BA pass exams

**SCHOLARSHIPS.** 6 resident scholps. of Rs. 100 p.m. and 6 scholps. of Rs. 25 p.m. open to students both of Delhi and outside entering the

univ. for first degree. Awarded annually on result of competitive exam. Scholars are required to study for an hon. degree in the univ. Resident scholars reside in a coll.

'OPEN' **POSTGRADUATE AWARDS** 6 'open' postgrad scholps. of Rs. 100 and 3 'open' resident fellowships of Rs. 200 p.m. awarded annually under all-India scheme. Deserving students who require financial assistance may qualify for Pdt. M.N. Dai scholps. of Rs. 75 p.m. for resident, Rs. 30 p.m. for non-resident, students

The **INDIAN SCHOOL OF INTERNATIONAL STUDIES**, formerly one of the constituent colls & instns of the univ., became an indep. univ. in Sept. 1961

**RESIDENCE.** Each coll. provides some residential accomm for its own students. Univ halls: Gwyer Hall, accomm for 110 postgrad. students in addn. to a number of res. students and teachers, Jubilee Hall, accomm for 220 students; med officer. Both halls are situated within the univ. enclave. Monthly expenditure, Rs. 100 approx.

**MILITARY FORMATION.** N.C.C. (first Delhi bn.). Strength: sr. div., 12 officrs, 555 cadets

**STUDENT ATHLETIC FACILITIES.** There is a univ. athletic assocn. and a univ. sports officer. Sports facilities are provided by each of the colls. and halls. Games played incl. cricket, hockey, football, tennis and volley-ball.

**EMPLOYMENT BUREAU.** The bureau provides a student counselling service and assists grads. of the univ. in obtaining suitable appts

**STUDENTS' UNIONS.** Apart from the students' union in each coll., there is a central univ. union.

**PUBLICATIONS** *Calendar* (1961), Rs. 7 50 n.p.; *Courses of Reading*; *Question Papers*; *Annual Report and Annual Accounts* (free); *Convocation Addresses* (free).

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	11,275	4510
Women	7,355	146
Total	18,630	4656

**Distribution by Faculties.** Arts & soc. sci., 16,699; educn., 174; law, 690; med. sci., 949; music, 54; sci., 3962; technical, 798. Total: 23,286.

Included in the figures above are:—

Preparatory and Pre-Medical students, 3075 (2091 m., 984 w.)

Postgraduate students, 3613.

New admissions, 7592.

Students from other countries, 337. (Countries from which largest numbers came: E. Africa, 112; Thailand, 62; Nepal, 15)

**DEGREES AWARDED (1960-61)** BA pass, 906; BA hon., 397; BCom, 221; MA, 407; MCom, 19; BEd, 69; MEd, 9; LLB, 228; BCL, 2; LL.M, 4; MB BS, 31; MD, 2; MS, 3; BSc pass, 143; BSc hon., 119; BScHonsSc, 51; BScN hon., 20; BArch, 11; BEd(Elect), 7; BE(Mech), 21; BChE, 7; BText, 6; MSc, 69.

**DIPLOMAS AWARDED (1960-61).** Bus. management, 28; library sci., 23; Russian, 10.

**CERTIFICATES AWARDED (1960-61).** French, 31; Italian, 14; German, 48; proficiency in law, 102; Russian, 5

# UNIVERSITY OF GAUHATI

Founded 1948

Postal Address : Gauhati, Assam, India  
Cables and Telegrams : University, Gauhati  
Telephone : Gauhati 101, 8765

CHANCELLOR—THE GOVERNOR OF ASSAM (ex officio)

VICE-CHANCELLOR, PRESIDENT OF ACADEMIC COUNCIL, AND CHAIRMAN OF EXECUTIVE COUNCIL—  
P. DATTA, MA BL Calc.

REGISTRAR—

ACADEMIC REGISTRAR—C. DAS, MA BL Calc.

TREASURER—K. C. BHATTACHARYA, MA Calc.

SECRETARY, UNIVERSITY CLASSES—A. K. SUMIA, MCom

## TEACHING STAFF

### Agricultural Botany

Majumdar, S. K., PhD Durb., BSc BSc(Agric)	(on leave) Reader	Chaudhury, Mrs. Arunmoni, MSc Calc., PhD Lond	Lectr.
Rajeev, A. K., MSc(Agric) Bot.	(on leave) Lectr.	Karmali, K. G., MSc PhD Savg.	Lectr.
Wannan, P.	Lectr.	Raghoban Naym, M. G., MSc	Lectr.
Goswami, R. N., MSc(Agric)	Lectr.	Bhargava, H. D., MSc	(on leave) Lectr.
Goswami, L. C., MSc(Agric)	Lectr.	Sarma, P., MSc	Lectr.
		Sarma, P. K., MSc	Lectr.

### Anthropology

Goswami, M. C., MA BT Calc	Prof.	Sabharwal, D. C., MA Glar, BCom Edin.	Prof.
Dua, B. M., MSc DPhil	Lectr.	Sarkar, K. N., MA Calc, LLB	Reader
Duizen, S., MA Calc.	Lectr.	Gogoi, P., MA Calc., DPhil	Lectr.
Deka, Mrs. Usha, MSc Calc	Lectr.	Goswami, P. C., MA Calc., LLB	Lectr.
Mahapatra, L. K., MA Calc	(on leave) Lectr.		(on leave) Lectr.
Bhugabati, A. C., MSc	(on leave) Lectr.	Joseph, A. C., MCom Afric.	Lectr.
Sarma, T., MSc	Lectr.	Mehrotra, S. N., MCom	Lectr.
		Datta, N. C., MCom	Lectr.
		Hazarela, P., MCom	Lectr.
		Medha, K., MCom	Lectr.

### Assamese

Barua, B. K., MA BL Calc., PhD Lond.	Prof.	Phukan, S., MA	Lectr.
Neog, M., MA Calc., DPhil	Reader	Bhattacharyya, D., MA	Lectr.
Sarma, S. N., MA Calc., DPhil	Reader	Datta, H., MA	Lectr.
Goswami, G. C., MA	Lectr.	Kakati, B., MA	Lectr.
Biswas, S., MA Calc.	Lectr.	Chaudhury, R. D., MA	Lectr.
		Awasthi, R. C., MCom	Lectr.
		Jam, M. L., MCom LLB	Lectr.

### Botany

Baruah, H. K., MSc Calc., PhD Camb., FLS	Prof.		
Dua, N., MSc Calc., PhD Lond.	Reader		
Bashta, D. N., MSc	Lectr.		
Satyantayan, G., BSc PhD Madr	Lectr.		
Konger, G., MSc DPhil	Lectr.		
Mahadevan, P. R., MSc	(on leave) Lectr.		
Kagti, L. C., MSc PhD	Lectr.		

### Chemistry

Barua, R. K., MSc Calc., PhD	Prof.		
Siddhanta, N. N. S., MSc PhD Bon.	Reader		

### Commerce

### Economics

Thomas, P. C., MA PhD Madr	Prof.
Sarungapani, S., BA Madr.	Reader
Krishnamurthy, K., MA Madr.	Lectr.
Bardalai, U. N., MCom	Lectr.
Sarma, D., MA	Lectr.

### Education

Dasgupta, D. C., MA EdD Calif.	Reader
Kar, B. C., MA Lond. & Camb., BT TD	Reader

Saikia, S., MA	Lectr	Pathak, M., BL	Lectr
Borah, K. P., MA <i>Baw</i>	Lectr	Maumdar, A. N., MA LLB	Lectr
Dev, Mrs. Renu, MA	Lectr	Sarma, D. N.	Lectr
Hirasika, A. C., MA BL BT <i>Cole</i> .	Lectr		
<b>English</b>			
Goswami, P. D., MA <i>Cole</i> , DPhil	Reader	Thawani, V. D., MA <i>Cole</i>	(on leave) Prof.
Ganguli, M. K., MA <i>Cole</i>	Reader	Beaburua, Miss Annala, MSc	(on leave) Lectr.
Dutta, A., MA PhD	Reader	Debn, B., MSc	(on leave) Lectr.
Sarma, G. V. L. N., MA <i>Baw</i> (on leave)	Lectr	Mahanta, M., MA <i>Baw</i>	Lectr.
Bhattacharyya, S. C., MA PhD	Lectr.	Tamuly, B. K., MA	Lectr.
Lama, A., MA	Lectr	Deb Mazra, A., MA	Lectr
Kakati, B., MA	Lectr.	Chakravarty, I., MSc.	Lectr
Datta, H. N., MA <i>Cole</i>	Lectr.		
Prabakar, M. S., MA	Lectr.	<b>Philosophy</b>	
		Sarma, R. R., MA PhD <i>Cole</i> .	Reader
<b>Geography</b>			
Das, H. P., MA <i>Cole</i> , PhD <i>Lead</i>	Reader	Bagchi, K. K., MA	Lectr.
Banthakur, M., MA <i>Alld</i>	Lectr	Krishnakutty, M., MA	Lectr
Pal, D. K., MA <i>Cole</i> .	(on leave) Lectr	Phai, B., MA	Lectr.
Taher, M., MA	Lectr		
Banerjee, M. K., MSc	Lectr	<b>Physics</b>	
Singh, D. K., MSc	Lectr	Mahanta, P., MSc <i>Cole</i> , PhD <i>Lead</i>	Prof.
Blugyan, M., MSc	Lectr	Choudhury, B., MSc <i>Cole</i> , PhD <i>Lead</i>	Reader
		Sarma, T., MSc	Lectr
<b>Geology</b>			
Choudhury, J. M., MSc <i>Baw</i> , PhD <i>Lead</i>	Prof	Kakati, K. K., MSc	Lectr.
Bhattacharyya, C. C., MSc (on leave)	Lectr	Das, I. M., MSc	Lectr.
Goswami, D., MSc <i>Lech</i>	Lectr.	Paul, M. P., MSc	Lectr
Rao, M. N., MSc <i>And</i> .	Lectr.	Rao, A., MSc PhD	Lectr.
Rahman, S., MSc	Lectr	Saikia, B., MSc PhD	Lectr
Acharyya, M., MSc	Lectr.	Deb Goswami, T., MSc	Lectr
<b>Hindi</b>			
Chaudhury, R. D., MA	Lectr.		
<b>History</b>			
Misra, V. B., MA <i>Baw</i>	Reader	<b>Sanskrit</b>	
Barua, D. P., MA	Lectr.	Sarma, M. M., MA <i>Cole</i> .	Lectr.
Murthy, H. V. S., MA <i>Mys</i> .	Lectr	Venkatacharyya, T., MA (on leave)	Lectr.
Pinikan, J. N., MA	Lectr.	Hazarika, B., MA	Lectr.
Acharya, N. N., MA	Lectr.		
<b>Law</b>			
Medha, J. C., MA BL <i>Cole</i> , PhD <i>Lead</i> .		<b>Statistics</b>	
	Principal, Univ. Law Coll.	Medha, J. P., MSc <i>Cole</i> & <i>Lead</i> , PhD Paris	Reader
Das, R. R., BL <i>Cole</i>	(on leave) Lectr.	Nag, S. C., MSc	Lectr.
Sarma, D. K., BL <i>Cole</i>	Lectr.	Palit, A. K., MSc	Lectr.
Pathak, D.	Lectr.	Sinha, S. M., MSc <i>Patna</i>	(on leave) Lectr.
		Nandi, S. B., MSc	Lectr.
		Venugopalacharyula, N., MSc	Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Controller of Exams.: R. K. Barua, MSc.  
 Asst. Registrar: N. Sarma, MA. Youth Welfare  
 Officer: S. N. Das, BSc BT Univ Librarian.  
 J. Sarma, MA *Cole*  
 Wardens. Hall No. 1: M. C. Goswami, MA  
 BT, Hall No. 2: S. Dowera, MA; Hall No. 3:

M. Barthakur, MA, Hall No. 4. J. Choudhury,  
 MSc PhD; Halls No. 5 and 6: N. Das, MSc  
 PhD, Halls No. 7 and 8: S. Saikia, MA; Halls  
 No. 9 and 10: J. Medha, MSc PhD; Girls' Hall  
 No. 1: Mrs. Bhobani P. Das, BA BT; Girls'  
 Hall No. 2: Mrs. Nilima Dutta, MA

## CONSTITUENT COLLEGE

[IA, LLB, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, LLB, etc.]

GAUHATI, University Law College, P.O. Gauhati  
 Univ., Jorhatkern, Assam LLB. Principal—J C

Medha, MA BL *Cole*, PhD *Lead*. 6 Lectrs.

## AFFILIATED COLLEGES

ABHAYAPURA, *Abhayapara College*, Assam IA Principal—K. Goswami, MA 6 Lectrs

BHUTIA, *M C College*, Assam IA, BA Principal—, 7 Profs, 8 Lectrs.

DIBRUHI, *B N College*, Assam IA, ISc, ICom, BA, BSc Principal—J Das, MA 8 Profs, 8 Lectrs

DIBRUGARH, *Assam Medical College* (Govt.), Assam (tel., Dibrugarh 86) MB BS Principal—P N Barua, BSc MB Calc, DGO Dnb, FRFPS Glas. 13 Profs, 13 Lectrs

DIBRUGARH, *D H S K Convergence College*, Assam. ICom, BCom Principal—L P Datta, MA 13 Lectrs

DIBRUGARH, *Dibrugarh H S K. College*, P O Rehbari, Assam (tel., Dibrugarh 105) IA, ISc, ICom, BA, BCom, BSc Principal—J R Barua, MA Calc 24 Profs, 22 Lectrs.

GAUHATI, *Arya Polytechnic College*, Assam IA Principal—L. Devi, MA DPhil 13 Lectrs.

GAUHATI, *Assam Engineering College*, P O Gauhati Univ., Jakhai, Assam (tel., Gauhati 656) BE Principal—N Dasgupta, BE Calc, MS 10 Profs., 12 Lectrs

GAUHATI, *Assam Veterinary College*, P O Gauhati, Assam (tel Gauhati 538A) 1st & Final BVSc&AH Principal—J M Bujarbaru, BVSc

GAUHATI, *B. Baruah College*, Assam (tel Gauhati 393). IA, BA. Principal—H Barua, MA Calc. 14 Profs., 6 Lectrs.

GAUHATI, *Cotton College* (Govt.), Assam (tel.: Gauhati 38). IA, ISc, BA, BSc. Principal—H. C Goswami, MSc Calc. 18 Profs, 30 Lectrs.

GAUHATI, *Gauhati Medical College*, Assam MB BS. Principal—S N Sarma, MB Calc 20 Lectrs

GAUHATI, *Hemgiri Girls' College*, Assam (tel.: Gauhati 393). IA, BA. Principal—R B. Das, MA Calc 2 Profs., 13 Lectrs.

GAUHATI, *Pragathi College*, P O. Gauhati, Assam (tel.: Gauhati 831). IA, ISc, BA, BSc Principal—T N Sarma, MA Calc. 34 Lectrs

GOALPARA, *Goalpara College*, P.O. Goalpara. IA, BA. Principal—M Bora, MA Calc 5 Lectrs

GORAKHAT, *Debaj Ray College*, Assam. IA, ISc, BA. Principal—K C Das, MA BT. 12 Lectrs.

HAILAKANDI, *S S College*, P O Hailakandi IA, BA Principal—D. Bhattacharjee, MA Calc 6 Lectrs.

IMPHAL, *Jashai College*, Assam IA Principal—T. N Singh, MA. 13 Lectrs

IMPHAL (MANIPUR), *D M College* (Govt.). IA, ISc, ICom, BA, BSc, BCom Principal—S. N. Kaul, MA Calc 1 Prof., 22 Lectrs.

JORHAT, *Assam Agricultural College* (Govt.), Assam ISc(Agr), BSc(Agr) Principal—M C Das, MSc Calc, PhD Edu., PLS 8 Profs, 19 Lectrs

JORHAT, *D C Barua Girls' College*, Assam. IA, BA Principal—A P Bhattacharyya, MA Calc. 14 Lectrs

JORHAT, *T B College*, Assam. IA, ISc, ICom, BA, BSc, BCom Principal—G. G. Datta, MA BL Calc. 1 Prof, 35 Lectrs

JORHAT, *Jashat Engineering College*, Assam BE pt I Principal—P C Dutt

JORHAT, *Postgraduate Training College* (Govt.). BT. Principal—I Men, BEd 10 Lectrs.

KARIMGANG, *Karimganj College*, Assam IA, ISc, ICom, BA, BSc, BCom. Principal—P C Bhattacharyya, MA Calc. 22 Profs, 2 Lectrs

MORONGCHUNG, *Fazi Ali College* Pre-Univ Principal—P N Sarwan, MA 5 Lectrs.

MUNGALDAI, *Mongaldai College* IA, BA Principal—P Sharma, MA BL 8 Lectrs

NALBARI, *Nalbari College*, Assam. IA, ISc, BA. Principal—T N. Goswami, MA BL Calc. 6 Profs, 6 Lectrs.

NORTH LAKHIMPUR, *North Lakhimpur College*. IA, BA. Principal—J N. Borghon, MA 8 Lectrs

NEWGONG, *Anandaram Dhekul Phukan College*, Assam IA Principal—S. D. Goswami, MA Edu 17 Lectrs.

NEWGONG, *Newang College*, Assam. IA, ISc, ICom, BA, BCom. Principal—J. Sarma, MA Calc. 25 Profs.

PATKAL, *Patkal College*, Assam. IA Principal—R N. Sarma, MSc Calc 6 Lectrs

SHILLONG, *Lady Kams Girls' College*, Assam. IA, ISc, BA. Principal—U. Bhattacharyya, MA BT Calc. 19 Profs

SHILLONG, *St Anthony's College*, Assam (tel.: Shillong 95A). IA, ISc, ICom, BA, BSc, BCom. Principal—Rev N. J. Kenny, BA 30 Lectrs

SHILLONG, *St Edmund's College*, Assam (tel.: Shillong 107) IA, ISc, BA, BSc, BT. Principal—Rev. Br. J N. Foley. 17 Profs, 4 Lectrs

SHILLONG, *St. Mary's College*, Assam. IA, BA, BT. Principal—Rev. Mother M. D. E. Sales 8 Profs, 6 Lectrs.

SHILLONG, *Shilong College*, Assam. IA, ICom. Principal—S. C Datta, MA. 19 Lectrs.

SHILLONG (BARPAN), *Unon Christian College*, Assam IA Principal—H J Taylor, MSc PhD, 7 Lectrs.

SIBSAGAR, *Sibsagar College*, Assam. IA, ISc, BA. Principal—P. D. Chaliha, MA BL 16 Lectrs.



SILCHAR, *Gurucharan College*, Assam (tel. 2) Solcher 2) IA, ISc, ICom, BA, BSc, BCom. Principal—D N Roy, MA PhD. 29 Profs.  
 TEZPUR, *Doring College*, Assam. IA, ISc,

ICom, BA, BSc Principal—B Das, MSc Calc 19 Profs

TIRUKURA, *Tirukura College*. IA, ICom Principal—U P De, MA. 11 Lectrs.

## GENERAL INFORMATION

The univ. came into existence on Jan. 1, 1948, and its constitution is governed by the Gauhati Univ. Act, 1947 (Assam Act XVI of 1947). It is an affiliating, teaching and residential univ. with jurisdiction over all the schs and colls in the state of Assam, the union territory of Manipur and the N-E frontier tract, which were formerly affiliated to the Univ. of Calcutta Under the Gauhati Univ. Amendment Act, 1960, the govt. of Assam contributes annually not less than 10 lakhs of rupees to meet the recurring charges of the univ.

INCOME (1960-61) Rs 6,012,097 (govt. grant, 43 per cent; fees, 37 per cent; misc, 20 per cent)

FACULTIES AND DEANS *Agric.*, Principal M. C Das; *arts*, Prof. B. K. Barua (Assamese); *comm.*, Prof. D C Sahbhawal; *engin.*, Principal N. Dasgupta; *law*, Principal J C Modhi; *med.*, Principal S N. Senma; *sci.*, Prof. H K Baruah (bot)

UNIVERSITY CAMPUS All teaching depts. are now in the newly constructed bldgs. on the univ. campus at Jalukbari, 7 mls. west of Gauhati

LIBRARIES. Univ. library, 50,094 vols.

MUSEUMS Anthropol., bot., comm., educn., geol.

ADMISSION. Candidates must have passed the matric. exam. of an Indian univ. or an exam. recognized as equivalent.

The univ. introduced the 3-yr. degree course from 1962-63.

FIRST DEGREE 3 yrs. after higher sec. or pre-univ. exams.—BA, BSc, BCom, 1 yr.—BSc(Agric), BE, MB BS, BVSc&AH; 3 yrs.—LLB.

HIGHER DEGREE 2 yrs. after corresponding bachelor's degree—MA, MSc, MCom, MSc (Agric). 1 yr. after bachelor's degree—BT. 2 yrs. after master's degree—DPhil

DIPLOMAS. Secretarial practice (2 yrs.), teachers' trg. in method of Engg. teaching (1 yr.)

CERTIFICATE. Teachers' trg. cert. course in geog. (3 mos.)

FEES Postgrad. tuition fees, Rs. 12 p.m., BT, Rs. 15 p.m., and law, Rs. 9 p.m. Undergrad., Rs. 8 p.m., inter classes, Rs. 7 p.m.; dipl. courses, Rs. 6 p.m.; geog. trg., Rs. 10 p.m.

ACADEMIC YEAR July-June.

THE USUAL LANGUAGE OF INSTRUCTION is English.

STUDENTS' ADVISORY BOARD. The bd. assists students who wish to pursue higher studies in India and abroad; it also maintains a register of former students and supplies information about careers and apps.

STUDENT RESIDENCES. (For wardens, see 'Admin. and Other Staff', above) Hall No. 1, Hall No. 2, Hall No. 3, Hall No. 4 and Hall No. 5 all situated at Jalukbari, P.O. Gauhati Univ. Seat rent, Rs. 51 p.a. in any hall.

STAFF RESIDENCES. 56 residences at Jalukbari, 7 mls. west of Gauhati.

STUDENTS' UNIONS. Postgrad. students' union and undergrad. students' union, in addn. to unions at the affiliated colls. BT trainees have an assocn. of their own.

PUBLICATIONS. Univ. *Calendar*, every 3 yrs. (Rs. 10), *Journal*, annual, various text-books; university students' *Journal*, annual (Rs. 3)

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	25,349	1000
Women	3,883	10

Total . 29,232 1010

Distribution by Faculties *Agric.*, 146; *arts*, 19,048; *comm.*, 1853; *engin.*, 350; *law*, 723; *med.*, 789; *sci.*, 6535; *vet. sci.*, 320; *others*, 287. Total, 30,242.

Included in the figures above are 1—Intermediate students, 22,682.

Postgraduate students, 1170.

New admissions, 11,545

Students from other countries, 51. (Countries from which largest numbers came Pakistan, 21; Italy, 13)

DEGREES AWARDED (1960-61). BA, 1190; BCom, 133; BSc, 269; LLB, 42; BSc(Agric), 33; BVSc&AH, 9; BT, 83; MA, 181; MB BS, 100; MCom, 22; MSc, 83

DIPLOMAS AWARDED (1960-61). Secretarial practice, 8.

# GORAKHPUR UNIVERSITY\*

Founded 1956

Postal Address: Gorakhpur, Uttar Pradesh, India

Cables and Telegrams: University, Gorakhpur

Telephones: 201, 60

CHANCELLOR—B. N. DAS, Governor of Uttar Pradesh

VICE-CHANCELLOR—A. C. CHATTERJI, DSc DrIng Berl

TREASURER—S. N. M. TRIPATHI, MA LLB

REGISTRAR—K. J. MAJUMDAR, MA BT

HON. LIEUTENANT—PROFESSOR K. S. BHARGAVA, PhD Lond, MSc DPhil

## UNIVERSITY TEACHING STAFF

[† = Part-Time]

### Ancient History and Culture

Pandey, G. C., MA DPhil Prof, Hd of Dept.  
Singh, R. B., MA PhD Asst. Prof.  
Chattervedi, S. N., MA Asst. Prof.  
Singh, S. J., MA Asst. Prof.  
Ghosh, Miss Kalyani, MA Asst. Prof.  
Goel, S. R., MA Asst. Prof.  
Mukherji, Miss Sandhya, MA PhD (on leave) Asst. Prof.

Rai, J. M., MA Asst. Prof.  
Tripathi, D. N., MA Asst. Prof.  
Misra, S. N., MA Asst. Prof.  
Joshi, L. M., MA †Lectr.  
Shukla, D. C., MA †Lectr.

### Botany

Bhargava, K. S., PhD Lond, MSc DPhil Prof, Hd of Dept.  
Chatterji, U. N., DPhil DSc Asst. Prof.  
Sahni, R., MSc Asst. Prof.  
Ganguly, Mrs. Savita, MSc Asst. Prof.  
Gupta, P. K., MSc Asst. Prof.  
Dast, S. N., MSc Asst. Prof.  
Sharma, D. N., MSc PhD Asst. Prof.  
Joshi, R. D., MSc †Lectr.  
Tewari, M. N., MSc †Lectr.  
Misra, P. C., MSc †Lectr.

### Chemistry

Mehrotra, R. C., MSc DPhil Alld, PhD Lond., FRIC (on leave) Prof, Hd of Dept.  
Tripathi, S. C., MSc DPhil (on leave) Asst. Prof.  
Rai, R. S., MSc DPhil (on leave) Asst. Prof.  
Joshi, K. C., MSc PhD Asst. Prof.  
Tewari, P. H., MSc PhD Asst. Prof.  
Rao, R. P., MSc PhD Asst. Prof.

Giri, S., MSc Asst. Prof.  
Tandan, J. P., MSc PhD Asst. Prof.  
Chattervedi, Y. N., MSc PhD Asst. Prof.  
Agarwal, S. P., MSc PhD Asst. Prof.  
Kapoor, R. N., MSc PhD Asst. Prof.  
Vishnu, MSc PhD Asst. Prof.  
Chandra, V., MSc PhD Asst. Prof.

### Chinese Language

Hu, C. T., MA Asst. Prof.

### Commerce

Misra, A. B., MA DLitt Asst. Prof, Hd of Dept.  
Singh, P. N., MCom Asst. Prof.  
Bajal, A. P., MCom Asst. Prof.  
Dwivedi, P. K., MCom Asst. Prof.  
Singh, M., MCom Asst. Prof.  
Tripathi, R. N. M., MCom Asst. Prof.  
Singh, B., MCom Asst. Prof.  
Pande, U. S., MCom Asst. Prof.  
Bisen, B. B. S., MCom Asst. Prof.  
Prasad, S. D., MCom Asst. Prof.  
Singh, H. H., MCom Asst. Prof.  
Singh, F. B., MCom Asst. Prof.  
Dube, K. D., BCom MA LLB Asst. Prof.  
Pandey, R. K., MCom Asst. Prof.  
Bajpai, O. P., MCom Asst. Prof.

### Economics

Bahadur, R. P., MA DPhil Prof, Hd of Dept.  
Sharma, H. P., MA BT PhD Asst. Prof.  
Joseph, L., MA Asst. Prof.  
Dube, V., MA (on leave) Asst. Prof.  
Mukherji, B. K., MA PhD Asst. Prof.  
Singh, B. K., MA PhD Asst. Prof.  
Misra, S. S., MA Asst. Prof.

\* Member of the Association of Universities of the British Commonwealth

Varma, Mrs. S., MA LLB  
 Pandey, J. N., MA  
 Shukla, J. P., MA

Asst. Prof.  
 Asst. Prof.  
 [Lectr.]

Dixit, A. P., MA PhD  
 Senadhyay, D., MA PhD Shastri  
 Sharma, S. P., MA BT PhD  
 Dwivedi, V. D., MA  
 Tripathi, R. C., MA PhD  
 Tripathi, S. N., MA  
 Singh, Mrs. Shanta, MA  
 Singh, B. P., MA PhD DLitt  
 Ojha, R. D., MA PhD  
 Misra, Mrs. T., MA

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 [Lectr.]  
 [Lectr.]

### Education

Varma, M., BED Edu., MA MED PhD  
 Hd. of Dept.

Gupta, R. K., MA Lond., MED  
 (on leave) Asst. Prof.  
 Nagar, P. S., MA MED  
 Joshi, R. K., MSc MED  
 Singh, S. D., MA MED  
 Sinha, H. C., MSc MA LT MED  
 Singh, B. B., MA MED  
 Banerjee, R. P., MA MED  
 Pandey, G. S., MA MED  
 Mehta, Mrs. Vimala, MA MED  
 Grover, Mrs. Indra, MA MED PhD  
 Pal, Miss Swarnlata, MA MED  
 Dubey, R. K., MA MED  
 Garg, Miss Shobha, MA MED  
 Joshi, J. P., MSc MED  
 Raoof, G., BA LT MED

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 [Lectr.]  
 Instt.

History, Ancient, see Anc. Hist. and Culture

### History, Medieval and Modern

Singh, H. L., MA PhD Lond.  
 Prot., Hd. of Dept.  
 Srivastava, H. S., MA LT PhD  
 Choud, T. P., MA LLB  
 Bhatnagar, G. D., MA PhD  
 Varma, H. C., MA  
 Dwivedi, S. C., MA

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 [Lectr.]  
 [Lectr.]

### English

Mishra, S. P., MA Mian.  
 Asst. Prof., Hd. of Dept.  
 Varma, R. N., MA PhD  
 Srivastava, G. P., MA  
 Varma, R. S., MA DPhil  
 Singh, M., MA  
 Singh, B. M., MA  
 Singh, P., MA  
 Srivastava, N. S., MA  
 Mishra, Miss Uma, MA  
 Biswas, J. C., MA  
 Upadhyaya, U. P., MA BED  
 Tripathi, R. S., MA  
 Dubey, G., MA

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.

### Law

..... Prof.  
 Hingorani, R. C., LL.M.  
 Asst. Prof., Actg. Hd. of Dept.  
 Tiwari, S. P., BSc LL.M. (on leave) Asst. Prof.  
 Singh, R., LL.M.  
 Baghel, B. S., LL.M.  
 Puri, A., BSc LL.B.  
 Bagpai, R. K., MA LLB

[Lectr.]  
 [Lectr.]  
 [Lectr.]  
 [Lectr.]

### Mathematics

Mishra, R. S., PhD DSc, FNI  
 Prof., Hd. of Dept.  
 Lal, K. B., MA PhD  
 Singh, U. P., MA  
 Kumari, Subramna, MSc DPhil  
 Verma, B. G., MA  
 Srivastava, R. P., MSc  
 Bhatnagar, V., MSc  
 Tripathi, R. S., MSc  
 Wadia, N. A., MSc

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 [Lectr.]  
 [Lectr.]

### Military Science

Kulshrestha, Lt. R. C., MA  
 Asst. Prof., Hd. of Dept.  
 Nagar, K. S., MA  
 Kanahia, R. N.

Asst. Prof.  
 [Lectr.]

Music, see Fine Arts and Music

### Philosophy and Psychology

..... Prot., Hd. of Dept.  
 Sinha, M. M., MA MS PhD Oregon  
 (on leave) Asst. Prof.  
 Bhattacharya, S. B. L., MA LT PhD  
 (on leave) Asst. Prof.  
 Tripathi, L. B., MA DPhil Psychol.  
 (on leave) Asst. Prof.  
 Singh, L. A., MA

[Lectr.]  
 [Lectr.]  
 [Lectr.]  
 [Lectr.]  
 Asst. Prof.

### Fine Arts and Music

Kumar, J., BA Dip Fine Arts  
 Asst. Prof., Hd. of Dept.  
 Shukla, S., MA MMus BV Luck.  
 Devula, D. P., Dip Fine Arts  
 Singh, M., MMus  
 Tripathi, R. N. M., MMus  
 Vyas, Mrs. R., BA BT  
 Mathur, K. N., MA

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.  
 Instr.

### Geography

Singh, M., MA PhD  
 Tewari, C. B., MA  
 Pannu, Miss Sarinder, MA  
 Dutt, R. D., MA  
 Shukla, M. P., MA  
 Singh, Mrs. Prem L., MA  
 Shukla, U. P., MA

Asst. Prof., Hd. of Dept.  
 Asst. Prof.  
 Asst. Prof.  
 [Lectr.]  
 [Lectr.]  
 [Lectr.]

### Hindi

Tiwari, G. N., MA PhD  
 Asst. Prof., Hd. of Dept.  
 Misra, B. G., MA  
 (on leave) Asst. Prof.

Srivastava, Shakuntala, MA	Asst Prof	Misra, V. N., MA Shastri	Asst. Prof.
Rastogi, G. D., MA PhD	Asst Prof	Gupta, S. K., MA PhD	(on leave) Asst. Prof.
Pasari, M., MA PhD	Asst Prof	Singh, L. N., MA Acharya	Asst. Prof.
Saxena, Mrs. L., MA DPhil	Asst Prof	Josh, H. C., MA Acharya	Asst. Prof.
Singh, B. B., MA	Asst Prof	Pande, R. M., MA	Asst. Prof.
Tewari, S. M., MA PhD	Asst Prof	Tripathi, R. K. M., Acharya	Asst. Prof.
Srivastava, J. S., MA	Asst Prof.	Tripathi, V. N., MA Shastri	Asst. Prof.
Pal, A. K., MA	†Lectr	Avastha, S. S., MA Shastri	Asst. Prof.
Pathak, L. K., MA	†Lectr	Nagai, Miss Sadha, MA	†Lectr
		Misra, S. D., MA	†Lectr

**Physics**

Sharma, D., MSc DPhil	Prof., Hd of Dept
Mehotra, B. N., MSc	(on leave) Asst. Prof
Tripathi, S. V. M., MSc	(on leave) Asst. Prof
Srivastava, G. P., MSc DPhil	(on leave) Asst. Prof
Sonyal, N. K., MSc	Asst. Prof
Saxena, V. N., MSc	Asst. Prof
Srivastava, B. B., MSc	(on leave) Asst. Prof
Khanna, S. M., MSc	Asst. Prof
Tripathi, K. K., MSc	Asst. Prof
Maheshwari, R. C., MSc	Asst. Prof.
Pandey, S. M., MSc	Asst. Prof
Pandey, B. R., MSc	Asst. Prof
Srivastava, B. N., MSc PhD	Asst. Prof
Mishra, R. M., MSc	†Lectr
Chagti, M. S. Z., MSc PhD	†Lectr
Srivastava, P. N., MSc	†Lectr
Singh, R. A., MSc	†Lectr

**Political Science**

Krishnanand, MA LLB DPA PhD	Asst Prof., Hd of Dept
Tiwari, J. N., MA LLB	(on leave) Asst. Prof
Sinha, K. N., MA LLB	Asst. Prof.
Tripathi, R. K. M., MA	Asst. Prof.
Dishat, B. V., MA PhD	Asst. Prof.
Srivastava, N. N., MA LLB	Asst. Prof
Mishra, K. N., MA	†Lectr
Lal, H. S., MA	†Lectr.

**Sanskrit**

Upadhyay, V. P., MA BL DLit	Prof., Hd. of Dept.
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**Sociology**

Dev, L., MA PhD	(on leave) Asst. Prof
Gaur, R. P. S., MA	Asst. Prof
Saxena, D. P., MA	Asst. Prof
Rhuan, G., MA	Asst. Prof
Dubey, S. M., MA	Asst. Prof
Nepali, G. S., MA	†Lectr

**Tibetan Language**

Blakhu, M. H.	Asst. Prof.
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**Urdu**

Ilahi, M., MA PhD	Asst. Prof., Hd. of Dept
Salim, A., MA PhD	†Lectr.
Haq, F., MA	†Lectr

**Zoology**

Chaudhary, H. S., MSc DPhil	Prof., Hd of Dept
Shukla, G. S., MSc PhD	Asst. Prof
Khena, S., MSc PhD	(on leave) Asst. Prof
Saxena, S. C., MSc PhD Lond	Asst. Prof.
Sinha, T. H. J., MSc DPhil	Asst. Prof
Srivastava, G. J., MSc	Asst. Prof.
Gos, A. B., MSc	Asst. Prof
Goswami, S. S., MSc PhD	Asst. Prof
Singh, K., MSc PhD	Asst. Prof
Tripathi, S. R., MSc	†Lectr
Chaudhary, B. S., MSc	†Lectr

**ADMINISTRATIVE AND OTHER STAFF**

Proctor: H. L. Singh, MA PhD Accts.	Josh, BA (Accts.). Warden. H. S. Chaudhary,
Officer: R. N. Dhanwan, BA. Asst. Registrars.	MSc DPhil Med Officer J. P. Srivastava,
S. B. B. Singh, MA LLB (Admin.); A. S.	MB BS

**AFFILIATED COLLEGES**

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

AZAMGARH, D.A.V. College (1957). BA, BCom Actg. Principal—S. K. Srivastava, MA 14 Teachers.	AZAMGARH, S.N. College (1944). BA, BSc, BCom, BEd, LLB Principal—S. Sultan, MA LLB 18 Teachers
AZAMGARH, S.D.J.D. College, Chandosar (1958). BSc(Ag). Principal—S. K. Mishra, MSc(Ag) PhD. 10 Teachers	BAHRAICH, K.D. College (1960). BA Principal —J. B. Singh, MA PhD 8 Teachers
	BALLIA, S.C. College (1916). BA, BSc, LLB,

BEd Actg Principal—S. Chube, MA 49 Teachers.

BALLIA, *K.B. Degree College*, Dabhar (1959) BA Principal—P N Misra, MA. 5 Teachers

BALLIA, *T.D. College* (1955). BA, BCom, BSc (Ag), BEd Principal—S R Chaturvedi, MA BT.

BASTI, *K.D. College* (1959) BA. Principal—R. K. Misra, MA LT 6 Teachers

DEORIA, *B.R.D. College* (1954). BA, BSc (Ag) Principal—15 Teachers

DEORIA, *Buddha College*, Kushinagar (1953). BA, BEd, BCom Principal—R. S N Tripathi, MA LT 17 Teachers

DEORIA, *S.V. Degree College* (1961) BA Principal—R A Divedi, MA DLitt

DEORIA, *U.N.K. Degree College* (1962). BA Principal—

FAIZABAD, *H.T. Degree College*, Tanda (1960) BA Principal—D. P. Misra, MA. 3 Teachers.

FAIZABAD, *K.S.S. College* (1951) BA, LLB. Principal—H C Jain, MA PhD 11 Teachers.

GHAZIPIUR, *Degree College* (1957). BA, BEd Actg. Principal—M. Singh, MA PhD 10 Teachers

GHAZIPIUR, *Hindu Degree College*, Zamania (1957). BA Principal—K. L. Gupta, MA PhD 7 Teachers

GONDA, *M.I.K. College*, Balrampur (1955)

BA, BSc, LLB, BEd Principal—A. K. Chaturvedi, MA 3 Teachers

GORAKHPUR, *N.D. College*, Barhaigang (1960) BA, BSc (Ag) Principal—R C. Srivastava, MA 11 Teachers

GORAKHPUR, *St Andrew's College* (1899) BA, BSc, LLB Principal—V M. Chacko, MA 47 Teachers.

JAUNPUR, *G.S. Degree College*, Samodhpur (1961). BA Principal—L Singh, MA

JAUNPUR, *R.S.K.D.D. College* (1959) BA, BEd Principal—A Chandra, MA 7 Teachers.

JAUNPUR, *T.D. College* (1948) BA, BSc, BCom, LLB, BSc (Ag). Principal—H N. Singh, MA BT. 56 Teachers

MIRZAPUR, *K.B. College* (1957). BA. Principal—S S Jain, MA PhD

PRATAPGARH, *T.D. College* (1960) BA, BEd Principal—A C Kashyap, MA MEd 8 Teachers

SULTANPUR, *R.R. Degree College*, Amethi (1959). BA Principal—J C. Dixit, MA LLB. 7 Teachers.

VARANASI, *H.C. College* (1951). BA, BCom, LLB, BEd Principal—K S Srivastava, MA PhD 31 Teachers

VARANASI, *U.P. College* (1949) BA, BCom, BSc. Principal—R N Singh, MSc PhD 102 26 Teachers.

## GENERAL INFORMATION

The univ. was established by the Gorakhpur Univ Act of 1936 and started functioning in July 1957. It is a teaching and affiliating univ. with jurisdiction extending throughout the eastern districts of Uttar Pradesh. Postgrad teaching is concentrated in the univ. teaching depts.

**CONSTITUTION** The first statutes of the univ. have been finalized and the necessary steps are being taken to constitute the authorities of the univ.

**INCOME** Estimate for 1962-63: Rs 4,734,974 (principal source: govt. grants).

**FACULTIES AND DEANS.** Arts, Prof. M. Varma (educn.); comm., Prof. A. B. Misra; law, Prof. R. C. Hingorani; sci., Prof. D. Sharma (phys.).

**UNIVERSITY PRECINCT** The univ. has a site of about 200 acres. The sci. block has been completed, lib. bldg. to be completed during 1962. Bldgs. under constrn. or planned include the senate hall, various depts., hostels and staff quarters.

**LIBRARY** 53,024 vols

**LABORATORIES.** Bot., chem., geog., phys., psychol., zool

**BOTANICAL GARDEN**

**MUSEUM.** Anc. hist.

**ADMISSION.** The minimum qualif. for admission to a first-degree course is a pass in the inter. exam. of the bd. of high sch. and inter. educn., Uttar Pradesh, or of an Indian univ. incorporated by law, or any other exam. recog. by the univ. as equivalent

**FIRST DEGREES** 2 yrs from inter. arts, inter. sci., inter. sci. (aguc), inter. comm., or equivalent—BA, BSc, BSc (Ag), BCom.

**HIGHER DEGREES** 1 yr—BEd; 2 yrs.—LLB, MA, 2 yrs. after corresponding bachelor's degree—MSc, MCom, MEd. Courses of instructn. are provided for MA, MSc, MCom. 2 yrs.' res. and thesis after postgrad. degree—PhD. The univ. also awards a DLitt.

**DIPLOMAS.** Chinese, French, German, Indian music, photography, each 2 yrs; soc. work, 2 yrs postgrad.

**EXTERNAL STUDENTS.** Teachers, inspecting officers of the dept. of educn., librarians and women candidates may be admitted as external students to exams. for the degrees of BA, MA (except in exper. psychol.), MSc (in maths only), BCom, MCom. Exams. are the same as for the corresp. internal degree.

**RESEARCH** Facilities available in all univ. depts. Dept. of anc. hist., culture & archaeol., excavations at important Sompura site (district Gorkhpur)

**FEEs** Tuition fees : BA, BSc, BCom, Rs 12 ; BEd, LLB, MA, MSc, MCom, MEd, Rs 15.

**ACADEMIC YEAR** July to April Term dates (approx.) : July 16 to Dec. 24 , Jan. 2 to April 30.

**USUAL LANGUAGES OF INSTRUCTION.** Hindi in undergrad. classes ; English at postgrad. level.

**STUDENT RESIDENCE** Every student not living with a parent or guardian must reside in a hostel maintained by the univ. or a coll. or in a hostel or lodge recog. by the univ. or a coll. There is a 3-storied univ. hostel, and most of the affiliated colls. provide accomm. for a fair proportion of their students.

**STAFF RESIDENCES.** 19 quarters, controlled by univ., for staff members.

**NATIONAL CADET CORPS** 7 indep. coys operate at the various affiliated colls. It is intended also to raise a contingent in the univ. itself.

**STUDENT HEALTH** Every student is required, by the end of the 2nd term following his admission, to present himself for med. exam. by the univ. med. officer at the univ. dispensary. There are separate arrangements for med. exam. of girl students. Med. facilities are also provided in the affiliated colls.

**STUDENTS' UNION.** A students' union has been formed.

**PUBLICATIONS** *Prospectus* (annual), Rs 2.25 n.p.

## THE YEAR 1961

### Statistics

	STUDENT NUMBERS, 1961-62	
	Full-Time	Part-Time
Men	11,622	—
Women	621	—
Total	12,243	—

Included in the figures above are —  
Postgraduate students, 1143

**DEGREES AWARDED (1960-61)** *Agne* BSc (Ag), 356 *Arts* BA, 1336, MA, 2356 *Comm* : BCom, 208, MCom, 59 *Educn.* BEd, 924 ; MEd, 9 *Law* LLB, 166 *Sci* : BSc, 226, MSc, 78 PhD (all facs) 4 *Total number of first degrees awarded*, 2126.

**DIPLOMAS AWARDED (1960-61)** *Chinese*, 4, *Tibetan*, 2, *sansk.*, 2, *photography*, 4

# GUJARAT UNIVERSITY

Founded 1949

Postal Address: Navrangpura, Ahmedabad 9, Gujarat State, India

Cables and Telegrams: Univgujarat

Telephones: 7198, 7488

CHANCELLOR—H. E. THE GOVERNOR OF GUJARAT (*ex officio*)

VICE-CHANCELLOR—L. R. DESAI, BA BT BSc, TD Lond

RECTOR—K. C. PARIKH, MA LLB

LIBRARIAN—P. F. PATEL, MA

## UNIVERSITY TEACHING STAFF

### Gujarati Language and Literature

Joshi, U., MA BSc, Prof., Dis.

Pandit, P. B., MA BSc, PhD Lond.

(Linguistics) Reader

Joshi, R. J., MA PhD BT Lectr.

### Psychology

Prabhoo, P. H., BA LLB PhD Prof., Dis.

Bhopatkar, C. T., Reader

Bhatt, Mrs K. K., MA Lectr.

Das, G. D., MA Lectr.

Trivedi, V. M., MSc BSc. (Phys.) Lectr.

Pandya, N. M., MSc (Phys.) Lectr.

Desai, Miss Sharda R., MSc Dub.,

PhD Lond. (Bot.) Lectr.

Shah, C. K., PhD Delhi, MSc (Bot.) Lectr.

Mehra, Mrs R. T., MSc (Bot.) Demr.

Vashti, I. G., MSc (Chem.) Demr.

Mody, B. A., MSc (Chem.) Demr.

Joshi, K. G., MSc (Phys.) Demr.

Vora, J. C., MSc (Phys.) Demr.

Acharya, Miss Usha H., MSc (Bot.) Demr.

### Social Sciences

Shenoy, B. R., MA BSc, MSc(Econ) Lond.

(Econ.) Prof., Dir.

Patel, Miss Taraben N., MA Col.,

PhD Lond., BA (Sociol.) Reader

Pathak, D. N., MA BSc. & Gouv. (Pol.) Reader

Pathak, H. N., MA MSc(Econ) Lond.

(Econ.) Reader

Dholakia, J. L. (Econ.) Reader

Desai, K. D., MA LLB BSc. (Pol.) Lectr.

Parikh, M. G., MA LLB (Pol.) Lectr.

Parikh, R. D., MA (Sociol.) Lectr.

Shah, S. M. (Stats.) Lectr.

Patel, R. C., MSc BSc. (Stats.) Lectr.

Jain, M. C., MSc BSc. (Stats.) Lectr.

Desai, Mrs. J. J. (Labour Welfare) Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar: J. M. Mehta, BSc BT BSc.

Asst. Registrar: S. P. Mehta, BA LLB Chief

Med. Officer: K. A. Shah, MB BS BSc. Dis. of

Phys. Educn: V. P. Mehta, BSc DipPEd.

## CONSTITUENT INSTITUTIONS

(Postgraduate depts. of the univ. ; for teaching staff, see above)

UNIVERSITY SCHOOL OF GUJARATI LANGUAGE

AND LITERATURE, founded 1954 Prepares post-

graduate students for MA and PhD. Dir.—U.

Joshi, MA BSc.

UNIVERSITY SCHOOL OF PHILOSOPHY AND PSYCHOLOGY, founded 1957. Prepares postgraduate students for MA and Ph.D. Dir and Prof. of PSYCHOL.—P. H. Prabhu, BA LLB Ph.D.

UNIVERSITY SCHOOL OF SCIENCES, founded 1960. Prepares postgraduate students for MSc

and Ph.D. Offg Dir and Prof. of BOT.—J. J. Chinnoy, MSc BSc, DIC, Ph.D. Lond.

UNIVERSITY SCHOOL OF SOCIAL SCIENCES, founded 1954. Prepares postgraduate students for MA and Ph.D. Dir and Prof. of ECON.—B. R. Shenoy, MA B.A., MSc(Econ) Lond.

## AFFILIATED COLLEGES AND RECOGNIZED INSTITUTIONS

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.; †=Part-Time]

AHMEDABAD, *Acharya Lal Gadhani Teachers' College*, Navrangpura, Ahmedabad, 9 (tel.: 3602). Founded 1952. TD, BEd, MEd, Ph.D. Principal—K. G. Desai, MA Col, BSc BT MED Ph.D. 3 Profs., 8 Lectrs., 3 Tutors, 1 Arts Master† and 1 Phys. Instr.

AHMEDABAD, *Ahmedabad Textile Industry's Research Association*, Navrangpura, Ahmedabad, 9 (tel.: 2851-2). Founded 1953. Ph.D. Dir.—L. T. S. Subramaniam, Asst. Dir. & Hds of Divisions: FIBRE—B. K. Vaidya, MSc Ph.D. Leu; CHEM AND CHEM PROCESSING—P. C. Mehta, BSc(Tech) MA Ph.D. Pres.; HUMAN RELATIONS—K. C. Chaudhary, MA Ph.D. Mich.

AHMEDABAD, *Balabhai Dadasaheb Arts College* (for Indus), Sanodi Sheri, Ahmedabad, 1 (tel.: 51792). Founded 1956. BSc, BA. Principal & Prof. of ENGL.—S. R. Bhatt, MA LLB. 37 other Profs. and Lectrs.

AHMEDABAD, *Behrangji Jhikhai Medical College*, Asafva, Ahmedabad, 11 (tel.: 2947). Founded 1946. MB BS, MD, MS, BSc(Med), MSc(Med), D.Sci. & Prof. of PHYSIOL.—E. M. Best, MD BSc., ANAT.—B. D. Mashta, MS, PATHOL.—Y. M. Bhande, MD BSc. 5 other Profs., 19 Jr. Lectrs., 14 Demos. and 50 other Hon. Assts.

AHMEDABAD, *Bhatkhai Zakhikhani Institute of Learning and Research*, Bhadra (tel.: 2202). Founded 1939. Postgrad and res. (MA, Ph.D.) Dir. & Prof. of SANSKR.—R. C. Parikh, BA B.A.; DAKSHINA-SHASTRI—Pdt. S. Sanghvi, GUJARATI APABRANSI—M. C. Modi, MA LLB, ARABIC—S. A. Z. Nadi (Nadwa Arabic Coll.); ANG. INDIAN CULTURE—H. G. Shastri, MA Ph.D. 7 other Profs. and Lectrs.

AHMEDABAD, *B.M. Institute of Psychology & Child Development*, Ahmedabad, 6 (tel.: 7923). Founded 1955. MA, Ph.D. in psychol. Asst. Dir.—S. K. Mishra. 2 Assoc. Profs. and Lectrs.

AHMEDABAD, *City Law College*, Loldarwaga, Ahmedabad. Founded 1958. LLB. Principal & Prof. of EVIDENCE, MORTAL LAW, TORTS—D. D. Desai, BA LLB. 4 other Lectrs.

AHMEDABAD, *Gujarat College*, Ellisbridge, Ahmedabad, 6 (tel.: 7957). Founded 1879. BA, MA, BSc, MSc, Ph.D. Principal & Prof. of PHYS.—Y. G. Nair, MSc Ph.D., GUJARATI—...; HIST. AND ECON.—N. B. Nair, MA; MATHS—P. V. Patel, MSc; BIOL.—G. T.

Pandya, MSc, BOT.—H. D. Narohno, Ph.D. Edin., MSc; SANS. AND ARDHAMAGADHI—V. M. Kulkarni, ENGL.—C. N. Patel, URDU—H. M. Shaikh, MA; PERSIAN—M. A. H. Farooqui, MA Ph.D.; HINDI—S. D. Mansharamdas, MA. 4 other Profs., 49 Lectrs., 23 Demos. & Tutors.

AHMEDABAD, *Hajirabhai Lakshminand College of Commerce*, Navrangpura, Ahmedabad, 9 (tel.: 7142). Founded 1936. B.Com, M.Com, Ph.D. Principal & Prof. of FOREIGN EXCHANGE AND INTERNAT. BANKING, PUBLIC ECON., ECON. AND COMM.—S. V. Desai, MSc Cal.; Vice-Principal & Prof. of INDO. AND SCI. METHOD—V. N. Joshi, MA, ACC'G, AUDITING AND ACCTS.—C. R. Lakshmi, B.Com, ORGN. OF TRADE, MOD. ECON. DEVL. AND FORMS OF ECON. ORGN.—S. P. Vyasani, MA LLB, ORGN. OF TRADE, TRANS. AND BUS. ORGN.—P. V. Lokte, B.Com MA. 4 Assoc. Profs., 6 Asst. Profs., 19 Lectrs., 2 Tutors.

AHMEDABAD, *H.K. Arts College*, Ahmedabad, 9 (tel.: 4290). Founded 1955. BA, Principal & Prof. of GUJARATI—Y. P. Shukla, MA; ENGL.—L. H. Tengube, MA Ph.D., SANSKR.—J. S. Jetli, MA Ph.D.; POL.—M. G. Parekh, MA LLB; ANG. INDIAN CULTURE—Mansu Prayabha J. Shah, DLitt Paris, MA Ph.D. 11 other Profs., 22 Lectrs., 2 Tutors.

AHMEDABAD, *Lalabhai Dalpatbhai Arts College*, Navrangpura, Ahmedabad, 9 (tel.: 7122). Founded 1957. BA, MA, Ph.D. Principal & Prof. of POL.—P. G. Mavankar, MA, ENGL.—F. C. Desai, MA LLB, SANSKR.—L. B. Athavle, MA, GUJARATI—M. M. Shinde, MA; ECON.—B. L. Philose—V. A. Vankar, MA; HINDI—B. L. Upadhyaya, MA; ARDHAMAGADHI—V. M. Shah, MA. 6 other Profs.

AHMEDABAD, *Lalabhai Dalpatbhai College of Engineering*, Navrangpura, Ahmedabad, 9 (tel.: 7216). Founded 1948. BE, ME. Principal—R. V. Pandit, BSc(Eng). ELECTR. ENGR.—B. D. Chaudhari, MSc Mech, BE, CIVIL ENGR.—G. J. Kulkarni, BSc(Civil); MECH. ENGR.—...; APPL. MECH.—K. S. Shankar, BE. 63 other Profs. & Lectrs.

AHMEDABAD, *Lalibhai Medical College of Pharmacy*, Navrangpura, Ahmedabad, 9 (tel.: 7216). Founded 1947. B.Pharm, M.Pharm. Principal & Prof. of PHARMACEUTICS AND FORENSIC PHARMACY—R. P. Patel, MSc BSc, Ph.D. Lond.; PHARMACEUTICAL CHEM.—C. R. Mehta, MSc Ph.D.



BENI, PHARMACOLOGY, BIOCHEM., GERMAN—C S Shah, DSc Pharm., BSc, PHYSIC., PHARMACOL.—H. R. Desai, BSc MB BS 3 other Profs, 12 Lectrs, 5 Tutors

AHMEDABAD, *Mafatalal Gopalbhai Science Institute*, Navrangpura, Ahmedabad, 9 (tel.: 7457). Founded 1937. BSc, MSc, PhD Principal & Prof. of CHEM.—R. D. Desai, BA MSc BSc, DSc Lond., FRIC, FNI; MATHS.—K. R. Dave, MSc; PHYS.—N. J. Patel, MSc, BSc.—; M. S. Dubale, PhD; GEOL. AND GEOG.—S. Mukherjee, MSc 34 other Profs, Lectrs. and Tutors

AHMEDABAD, *Motilal Nehru Law College* Founded 1961 and LLB Principal—N S Pandya, MCom LLB 5 Profs, 3 Lectrs

AHMEDABAD, *New Law College* Founded 1961. and LLB Principal—K. H. Desai 2 Profs, 1 Lectr

AHMEDABAD, *Physical Research Laboratory*, Navrangpura, Ahmedabad, 9 (tel.: 7076). Founded 1948. MSc and PhD in phys. Dir & Prof. of ATMOSPHERIC PHYS.—K. R. Rameshram, MA DSc, FNI; COSMIC RAYS PHYS.—V. A. Sarabhai, MA PhD Camb; R. P. Kane, MSc PhD; ELECTRONICS—U. D. Desai, MSc PhD; THEORET. PHYS.—S. P. Pandya, MSc PhD

AHMEDABAD, *Prakash Arts College*, Ahmedabad. Founded 1957. 1A, BA. Principal & Prof. of EDUC.—N. U. Trivedi, MA MEd. 4 other Profs., 12 Lectrs and Tutors, and 1 Phys. Tg. Instt.

AHMEDABAD, *St Xavier's College*, Ahmedabad, 6 (tel.: 7985). Founded 1955. BA Principal—Rev H. A. de Souza, MA Col., LPh Rome, STL Convent, PhD Fordham; Vice-Principal & Prof. of ECON.—F. Braganza, MA Col.; ENGL.—J. Braganza, MA Col., BA LPh Rome 10 other Profs, 26 Lectrs, 2 Tutors.

AHMEDABAD, *Sardar Vallabhbhai Arts College* Founded 1950. BA Principal & Prof. of ECON.—C. J. Patel, MA 13 Lectrs.

AHMEDABAD, *Sardar Vallabhbhai Commerce College*. Founded 1961 BCom. Principal—M. C. Shah, MCom LLB

AHMEDABAD, *Sheth Haridas Acharya College of Commerce*, Ellisbridge, Ahmedabad, 6 (tel.: 7028). Founded 1956 BCom. Principal—M. C. Desai, MA LLB. 28 Profs., Lectrs. and Tutors.

AHMEDABAD, *Sheth K. M. Postgraduate School of Medicine and Research*, Ellisbridge, Ahmedabad, 6 (tel.: 7601). Founded 1931. MD and MS Pt. II. Dir. & Prof. of SURG.—M. D. Desai, MB MS Madr., MChOrthw, FRCS; SURG.—M. D. Patel, DLO Lond., MB BS, FRCS; MED.—K. C. Gupta, MD BS; G. R. Kamat, MD BS, OBSTET. AND GYNACOL.—Miss Saudamini C. Pandya, MB BS Bow, MD. 11 other Profs. and Lectrs.

AHMEDABAD, *Shri Swaminarayana Arts & Science College*, Citimandir Road, Ahmedabad

(tel.: 51849). Founded 1956. BA Principal & Prof. of GUJARATI—P. H. Bhatt, MA, BSc.—G. K. Bhatt 4 other Profs., 13 Lectrs

AHMEDABAD, *Sir Lallubhai A. Shah Law College*, Ellisbridge, Ahmedabad, 6 (tel.: 7028). Founded 1927 LLB, LL.M. Principal & Prof. of CONTRACT, TRANSFER OF PROPERTY AND HINDU LAW—M. S. Pandit, BA LLB, ELEMENTS OF CONST.—...; INDIAN PINAL CODE—V. K. Desai; CONTRACTS—I. M. Naravati, BCom LLB, CIVIL PROCEDURE CODE—B. K. Gandhi, MOHS LAW, ETC.—S. S. Bhabra, BA LLB, EVIDENCE AND INDIAN PINAL CODE—D. C. Trivedi, MA LLB 20 other Lectrs

ALIABAD, *Damber Gopaldev Mahavdayalaya*, Halas, Saurashtra State. Founded 1953. BA. Principal & Prof. of GUJARATI—M. S. Patel. 4 Profs., 5 other Lectrs. and Tutors

ANRELI, *Pratapji Ash College* Founded 1961. BA Principal—K. R. Dave, MSc 6 Lectrs, 1 Tutor.

BHAVNAGAR, *Mangaldas Jashbhai College of Commerce*, Saurashtra State. Founded 1949. BCom, MCom Principal & Prof. of BUS. ORGS.—S. C. Pathak, MCom; ENGL.—P. P. Mehta, MA, BANKING AND SCIENTIFIC METHODS—H. D. Naluyan, MCom, ACCOUNTING AND AUDITING—J. G. Mankad, BCom. 17 other Profs, Lectrs and Tutors.

BHAVNAGAR, *Sawaldas College and Sir P. P. Institute of Science*, Saurashtra State. Founded 1885. MA, BSc, MSc, PhD Principal & Prof. of MATHS AND PHYS.—J. B. Sandil, MSc, MATHS.—S. S. Dave, MSc, HIST AND ECON.—I. J. Dhruve, MA; ENGL.—V. J. Trivedi, MA; GUJARATI—I. R. Dave, MA; CHEM.—H. M. Mapara, MSc; ENGL.—P. J. Chandekar, MSc, PHYS.—K. L. Narasimham, BA And, MSc Ban 11 other Profs, 13 Lectrs, 19 Tutors and Demrs

BIJAJ, R.R. Lalan Intermedate College, Kutch Baw. Founded 1953. BA Principal—N. B. Nair, MA; ENGL.—H. D. Dave, MA, CHEM.—A. G. Munshi, MSc PhD; GUJARATI—C. A. Shukla, MA 20 other Lectrs and Demrs, 4 Phys. Tg. Instt.

BILIMORA, *Shri Vithalbhai Shirobhai Patel College of Arts and Science* Founded 1961. BA, BSc Principal—D. Q. Vashi, MSc Bow & Lond. 9 Lectrs, 2 Demrs

BHOACH, *Jayendrapras Arts and Science College* Founded 1955. BSc, BA Principal & Prof. of MATHS—K. V. Desai, MSc 8 other Profs., 12 Lectrs, 1 Tutor, 1 Phys. Tg. Instt.

BULSAR, *Science and Arts College*. Founded 1957. 1A, BSc, BA Principal & Prof. of CHEM.—K. G. Nair, MA DSc Lond 24 other Lectrs., Demrs and Tutors.

CAMRAY, *Shri Rajan Parekh Arts College* Founded 1960 1A. Principal & Prof. of GUJARATI—P. Chandravakar, MA 6 Lectrs

CAMBAY, *Smt Bhikhyen Chendulal Jhaladhiwala Science College* Founded 1961 BSc Principal—J. J. Thivedi, BSc PhD 4 Lectrs, 2 Demrs

DABHOI, *Arts College* Founded 1958 IA Principal & Prof of GUJARATI—B. P. Kothari, MA 2 other Profs, 7 Lectrs

DWARKA, *Shri Shandipathi Arts College* Founded 1960, IA Principal & Prof of SANSK.—R. S. Betas, MA PhD, 6 Lectrs

GODHARA, *Shri P. T. Arts and Science College* Founded 1960, IA, BSc Principal & Prof of CHEM.—C. C. Shah, MSc 9 Lectrs

JAMNAGAR, *Ayazuddin Mahomedallywalla* Founded 1956 BAMS Principal—G. M. Patel, MB BS; ROGANIDANKAYACHHETRA—K. P. Vyas 31 other Profs, Lectrs and Demrs

JAMNAGAR, *D. K. V. Arts & Science College* Founded 1956 IA, BA, BSc, BSE Principal—T. M. Oza 2 Profs, 8 Lectrs

JAMNAGAR, *M. P. Shah Medical College* Founded 1955 MB BS Principal—A. D. Joseph, MD BS, PATHOL.—H. H. Shah, MD; SUNG—P. P. Sheth, FRCS, DYN LCOL.—S. M. Sen, MS MO DGO 12 other Profs, 20 Lectrs

JAMNAGAR, *Shri M. P. Shah Municipal College of Commerce and Law* Founded 1961 and 1962 respectively BCom, and LLB Principal—J. J. Desai, MA 1 Prof, 5 Lectrs, 1 Tutor

JUNAGADH, *Agriculture College* Founded 1960, BSc(Agr) Principal & Prof of PLANT PATHOL.—M. K. Desai, MSc(Agr) 10 Lectrs

JUNAGADH, *Bahamidu College, Saurashtra State* Founded 1901, MA, MSc Principal—H. D. Nerulkar; MATHE.—A. R. Rao, MSc, BSc—G. A. Kapadia, MSc, PHYS.—S. S. Joshi, BSc PhD; CHEM.—S. A. Vashnav, MSc; ECON.—P. N. Joshi, MA 10 other Profs, 16 Lectrs, 5 Tutors

KALOL, *Kalol Municipal Arts College* Founded 1961 BA Principal—R. G. Bhatt, MA BSc & Col, EDW Col. 5 Lectrs, 1 Phys. Instr

KARADWADY, *Parekh Brothers' Science College and Shah Kankant Sabhai Arts College* Founded 1961 BA, BSc Principal—L. D. Dave, PhD Lond, MSc 1 Prof, 10 Lectrs, 3 Demrs, 1 Tutor

MAHRA, *L. H. Science and S.D. Arts Intermediate College* Founded 1960, IA, BSc, Principal & Prof. of BOT.—C. M. Patel, MSc, 9 Lectrs

MODASA, *Sir P. T. Arts and S.K. and Shri Krishnakant Arts College* Founded 1960 IA, BSc Principal & Prof of GUJARATI—D. P. Tankar, MA PhD 9 Lectrs

MORVI, *H. H. Mahendrasingh Science and M. N. Mehta Arts College* Founded 1960 IA, BSc, Principal—P. M. Jini, MSc, 9 Lectrs

MORVI, *Lakhdhwa Engineering College, Saurashtra State* Founded 1951 BE (civil, elect.

& mech) Principal—T. M. Pankh, BE(Civil), CIVIL ENGR.—M. D. Bhajani, BE(Civil), APPR. MATHE.—L. T. Patel, MA 50 other Lectrs and Demrs

NADIAD, *J. V. College of Commerce* Founded 1960, BCom Principal & Prof. of ECON.—S. R. Mehta, MA, 6 Lectrs

NADIAD, *Jethabhai Jhaverbhai College of Science & C. B. Patel Arts Institute* Founded 1947 BA, BSc, MA, MSc Principal—C. C. Shah; CHLAI—K. N. Chokshi, MSc BT Bsc; MATHE.—Bassan Darshan Singh, MA; PHYS.—M. M. Patel, MSc; ZOOL.—N. L. Nank, MSc, BOT.—P. S. Toor, MSc, GUJARATI—R. M. Patel, MA BT Bsc, R. N. Pandya, MA; FROG.—B. J. Pandya, MA, HIST and ECON.—R. N. Desai, MA PhD 34 other Profs, Lectrs, Demrs and Tutors

NAVARI, *Sorabji Bajarji Garda College and B. P. Bania Science Institute* Founded 1945 MA, MSc, PhD Principal & Prof. of ENGL.—N. N. Bhattacharya, MA, BOT.—B. P. Menon, MA Madr.; GUJ.—R. D. Advani, MSc; MATHE.—S. R. Gokhalekar, MA BEd LLB; GUJARATI—J. S. Joshi, MA, PHYS.—V. N. Upadhyaya, MSc, PERSIAN—M. F. Qureshi, MA, MICROBIOLOG.—W. V. Koteswaram, MSc Tech Maint, MSc Bsc, SANSK.—; HINDI—Mrs. Suddha J. Phadke, MA 50 other Profs, Lectrs and Demrs

PATAN, *Patan Arts and Science College* Founded 1959 BA, BSc Principal—P. A. Pandya, BSc 5 Profs, 19 Lectrs, 2 Demrs, 4 Tutors, 1 Phys. Instr

PETLAD, *Petlad College* Founded 1946 IA, BSc Principal—S. V. Shah, BSc PhD; SANSK.—B. M. Dhruva, MA PhD, LOGIC—J. G. Jogalekar, MA, MATHE.—D. K. Patwardhan, MSc 2 other Profs, 14 Lectrs and Demrs, 1 Phys. Instr

PILVAL, *Udwadram Panchal Arts College and Sardesaya Science College* Founded 1960, IA, BSc, Principal & Prof of CHEM.—M. S. Shah, MSc PhD, 9 Lectrs

POREBHANDEN, *Ravda Graduate Teachers' College* Founded 1955, BEd Principal—H. E. Halam, MA BT MED. 8 Lectrs

RAJKOT, *A. M. Parekh Law College* Founded 1955 LLB Principal & Prof of LAW—H. S. Sanghani, MA LLB, 7 other Profs and Lectrs

RAJKOT, *Dharmadrashty College & Kotak Institute of Science, Saurashtra State* Founded 1937, MA, MSc Principal & Prof of ENGL.—M. N. Korgochari, MA, ECON, INDIAN ECON. PROBLEMS—R. R. Mishra, MA LLB, PHYSICS—M. G. Desai, MA LLB, PHYS.—P. Y. Deshpande, MSc PhD, SANSK.—; LOGIC and PHILOS.—U. D. Bhatt, MA; MATHE.—K. M. Shah, MSc BT Bsc, 57 other Profs, Lectrs and Demrs

RAJKOT, *Sangeet Nritya Natya Mahavidyalaya* Founded 1961 1st yr dipl in music

Principal—A. V. Doshi. 1 Prof., 2 Lectrs., 3 Demrs

RAJECOT, *Shri Papatlal Dhanubhai Malaviya College of Commerce*. Founded 1957. BCom, BCom. Principal—G. N. Hakani, MCom. 4 Profs., 10 Lectrs., 2 Tutors.

SATAPUR, *Safer Jubilee Arts and Commerce College*. Founded 1961. BA, BCom. Principal—H. K. Bukhari, MCom BA LLB. 11 Lectrs., etc.

SURAT, *Kakabhai Pranshank College of Commerce*, Athva Lines. Founded 1946. MCom. Principal—A. R. Desai, MA BSc (Econ). *Law, Accounts, Co-operation and Rural Devt.*, etc.—R. N. Bhatt, MCom; *Maths and Stats.*—K. M. Talati, MA; *Engl.*—R. L. Keswani, MA; *Doon*—... 4 other Profs., 11 other Lectrs., 1 Phys. Trg. Instr.

SURAT, *Magnal Thakardar Bahadurkumar College*, Athva Lines. Founded 1918. MA, MSc, PhD. Principal—J. T. Parikh, MA; GUJARATI—V. R. Trivedi, MA; SANSK. AND ANTIKAMAGADHI—J. T. Parikh, MA; URDU AND ARABIC—T. H. Shamsi; *Econ.*—P. N. Modak, MSc Nag; *Hist. and Poln.*—P. C. Joshi, MA. *Agrs.*, *Maths.*—S. Ramkrishnan, MSc. 16 other Profs., 22 Lectrs., 34 Demrs., 1 Tutor, 3 Phys. Trg. Instrs.

SURAT, *O.H. Natar Ayurveda Mahavidyalaya*. Founded 1958. I & II BAMS. Principal & Prof. of DRAVYAGUNA—B. G. Vaidya, Vice-Principal & Prof. of NIDAN CHIKITSA—R. N. Desai. 21 other Profs., 24 Lectrs., 9 Demrs. and Tutors.

SURAT, *Sardar Vallabhbhai Regional College of Engineering and Technology*. Founded 1961. BE. Principal—T. A. Desai, BSc(Eng), MIE (India). 1 Prof., 4 Lectrs.

SURAT, *Saraswathi Law College*, Athva Lines. Founded 1935. LLB, LL.M. Principal & Prof. of ENGL., HINDI LAW, LOGIC, etc.—C. D. Vyas, MA LL.M. 10 other Profs. and Lectrs.

SURAT, *Saraswathi College of Science*. Founded 1960. BSc. Principal & Hd. of Dept. of PHYS.—M. S. Desai. 3 Profs., 12 Lectrs.

SUREDRANAGAR, *M.P. Shah Arts & Science College*. Founded 1956. IA, ISC, BA. Principal—Y. D. Bhave, HST and ECON.—R. B. Shivastava, MA. 2 Profs., 18 Lectrs., 7 Demrs.

TALOD, *Sheth H.P. Arts and Shriwan S.M.S. Panchal Science Intermediate College*. Founded 1960. IA, ISC. Principal & Prof. of GUJARATI—R. G. Nank, MSc. 9 Lectrs.

UPREJA, *Upleta Municipal Arts and Commerce College*. Founded 1961. BA. Principal—J. S. Jedy, MA PhD. 8 Lectrs., etc.

VERVAL, *Shri Somnath College*. Founded 1960. IA, ISC. Principal & Prof. of PHILOS.—I. V. Trivedi, MA. 6 Lectrs.

VIRNAGAR, *Maneklal Nauchand College*. Founded 1946. MA, MSc. Principal & Prof. of GUJARATI—K. B. Vyas, MA; *Logic and Philos.*—V. M. Kulkarni, MA, PERSIAN—A. S. Kadri, MA, 1901.—H. V. Kashvap, MSc PhD.

## GENERAL INFORMATION

Following upon the report of a cttee. under the chairmanship of the Hon. G. V. Mavalankar, an act was passed in 1949 by the Bombay legislature for the establn. and incorporation of the Gujarat Univ. as a teaching and affiliating univ.

Following the reorgn. of states, the univ. is now situated in Gujarat state and its jurisdiction extends over the following districts: Ahmedabad; Kaira (excl. the limits of Vallabh Vidyanagar in the Anand taluk, and the area within a radius of 5 mls. from the office of Sardar Vallabhbhai Vidyapeceth, situated therein); Panch Mahals; Broach; Surat; Sabarkantha; Banaskantha (excl. Abu Rd taluk which now forms pt of state of Rajasthan); Baroda (excl. the area comprising the city of Baroda and territoria within a radius of 10 mls. from the office of Maharaja Sayajirao Univ. of Baroda); Mehsana; Amreli; Jamnagar; Rajkot; Bhavnagar; Junagadh, Kutch.

Postgrad. teaching and res. is carried out in the 4 univ. depts., 5 recognized instns., and 50 postgrad. centres for teaching establn. in affiliated colls. in the univ. area.

CONSTITUTION. There are 3 principal academic

and exec. bodies, viz. senate, syndicate and academic council. The senate is largely composed of elected members in different constituencies representing different academic groups such as registered grads., teachers, sec. teachers. The principals of affiliated colls. and hds. of recog. instns. and a few persons holding public offices are *ex-officio* members. There are also 20 members nominated by the chancellor. The syndicate, the principal exec. body, also has elective membership. The members of the senate and appropriate constituencies in this behalf elect the syndicate for a term of 3 yrs. The academic council is largely concerned with all academic matters such as courses of study, standards of passing and classes, text-books, etc. Every chairman of the bd. of study is an *ex-officio* member of the academic council. In addition, it has 3 reps. each of the principals and hds. of recog. instns. The vice-chancellor, registrar, deans of ins. and hds. of univ. depts. are the other *ex-officio* members of the academic council.

INCOME (1961-62). Total. Rs. 3,636,000 (govt. grants, Rs. 634,750 (recurring), Rs. 257,244

(non-recurring), endowments, Rs 62,864, fees, Rs 2,389,112, other sources, Rs. 291,940)

**FACULTIES AND DEANS** *Agric.*, Principal M K Desai, *arts*, K L Desai; *Ayurvedic med.*, Principal B G Vaidya, *comm.*, Principal M C Desai, *law*, B. H. Desai, *med.*, Dr. N C Shah, *sci.*, Principal J B Sandil; *technol.*, G S Desai

**LIBRARIER** 67,643 vols

**FIRST DEGREE.** 4 yrs.—BA general or special, BCom, BSc 3 yrs. after ISC—BE (civil, mech. & electr.), BPharm 5½ yrs. after ISC—MB BS, 2 yrs. after IA, ISC or ICom (or 2 yrs. after BA, BSc or BCom)—LLB.

**HIGHER DEGREE.** MA (2 yrs. after BA gen. or spec.), MCom (2 yrs. after BCom); BE (1 yr. postgrad.); ME (1 yr. after BE), MSc (1 yr. after BSc), ME (2 yrs. after BE), LLB (2 yrs. after LLB), MPharm (2 yrs. after BPharm), BSc(Med) (1 yr. after MB BS); MSc(Med), MD, MS (each 2 yrs. after MB BS); PhD (3 yrs. after bachelor's degree or 2 yrs. after master's degree); DSc (2 yrs. after PhD or 3 yrs. after master's degree or 6 yrs. after bachelor's degree), DLitt (2 yrs. after PhD or 3 yrs. after master's degree or 7 yrs. after bachelor's degree).

The Univ. does not award any HONORARY DEGREES

**EXTERNAL DEGREES.** The Univ. holds external exams in arts up to BA gen. and BA sp. standards. Only candidates whose mother tongue is Gujarati or who have lived in the state for 1 yr. prior to their appln. for registration are eligible to enrol for external exams

**DIPLOMAS.** Undergrad. TD, 1 yr.; Dip Pharm, 2 yrs., music, 3 yrs. Postgrad. labour welfare (DLW), 2 yrs.; anesth., 1 yr.

**FEES.** Examinative BA gen and sp.; internal, Rs 50, external, Rs 75, MA, Rs 75,

BCom, Rs 50, MCom, Rs 100, BEEd, pt I, Rs 15, BEEd, pt II, Rs 15, MEd, Rs 75, BSc (principal), Rs 50; BSc (subad.), Rs 35, MSc, Rs 100, BE (civil, mech. & electr.), Rs 100 each; ME, Rs 100; LLB, Rs 60, LL.M., Rs 150, MB BS, BPharm, Rs 75 each, MPharm, Rs 200; MD, pt I, Rs 100; MD, pt II, Rs 200; MS, pt I, Rs 100, MS, pt II, Rs 200; BSc (med.), Rs 100, MSc (med.), Rs 200; PhD (by thesis), Rs 100, PhD (French & German translation), Rs 25 *Tuition* (in postgrad. schs. of the Univ.) arts & matha, Rs 75 per term, sci., Rs 125 per term

**ACADEMIC YEAR** 2 terms. Term dates (approx.) June 15 to Oct 15, Nov. 5 to March 15 (med, April 15)

**LANGUAGE OF INSTRUCTION.** Gujarati

**STUDENT RESIDENCES.** Each affiliated coll. provides hostel accom. for its own students. Fees vary from coll. to coll.

**NATIONAL CADET CORPS.** 4th & 7th Bombay, and 1st Saurashtra bns.; 1st Bombay E.M.E., 4th Bombay Girls troop, Surat indep. co., Bhuj indep. co., Bhuj Saurashtra E.M.E.

**STUDENT HEALTH SERVICE.** Full-time med. officer. All new entrants to Univ. medically examined, free surgical and medical aid in appropriate cases. New student health centre on Univ. campus planned (approx. cost, Rs. 200,000).

**STUDENTS' UNIONS.** In this mainly affiliating Univ. there is no central student orgn. Each affiliated coll. has its own students' union which normally arranges cultural, sporting and extra-curricular activities for the students

**PUBLICATIONS.** *Annual Report*, *Handbook, Part I* (50 p p.); *Handbook, Parts II* (1958 edition, Rs 12) and *III* (vol I, Rs 2.62, vol II, Rs. 3.37); *Univ. Bulletin* (Rs 1, annual sub, Rs. 4), *University Journal* *Vidyut* (Rs. 3)

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, March 1961

	Full-Time	Part-Time	External
Men	21,782	—	7,775
Women	5,674	—	793
Total	27,456	—	8,568

Distribution by Faculties *Agric.*, 79; *arts* (incl. educn.), 10,590; *Ayurveda*, 187; *comm.*, 4,137; *engin.*, 1,109; *law*, 1352; *med.* (incl. pharm.), 1045; *sci.*, 8,957. Total—27,456

Included in the figures above are—  
Postgraduate students, 2,272

New admissions (full-time), 12,934 (incl. students coming from other univs).

Students from other countries, nil.

**DEGREES AWARDED (1960-61)** *Agric.*: BSc (Agric), 6. *Arts* (incl. educn.): BA, 2706; MA, 189; BEEd, 155; MEd, 4, PhD, 6. *Comm.*: BCom, 451; MCom, 49, PhD, 1. *Engng.*: BE, 240; ME, 1. *Law*: LLB, 373; LL.M., 6. *Med.*: MB BS, 88; MS, 10, MD, 9, MSc (Pharm), 1; BPharm, 39; MPharm, 15. *Sci.*: BSc, 624; MSc, 105, PhD, 9

**DIPLOMAS AWARDED (1960-61)** Labour welfare, 10, anesth., 3

# INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Founded 1958

Postal Address: Powai, Bombay 76, Maharashtra State, India

Cable and Telegram: Technology, Bombay 76

Telephone: Bombay 67654-6

CHAIRMAN OF BOARD OF GOVERNORS—K. LALSHAI

DIRECTOR—S. K. BOSE, BSc(Engg), MIE(India)

DEPUTY DIRECTOR—N. R. KAMATH, BSc BSc(Tech)

REGISTRAR—V. NIGRA, BA BE, MIE(India)

## TEACHING STAFF

[I = Part-Time]

<b>Costing</b>		<b>Engineering, Metallurgical</b>	
Gokhale, N. S.	† Lectr	Tendolkar, G. S., BSc BSc(Tech) PhD	Prof
		5 Asst Profs, 2 Lectrs, 2 Assoc Lectrs	
<b>Economics</b>		<b>English</b>	
Deshpande, S. H.	† Lectr.	Mokashi, S. R., MA	Lectr
<b>Engineering, Chemical</b>		<b>Logic and Ethics</b>	
Kamath, N. R., BSc BSc(Tech)	Prof	Laxarus, F. K.	(Logic) † Lectr
8 Asst Profs, 17 Lectrs		Sinaci, R. A.	† Lectr
<b>Engineering, Civil</b>		<b>Mathematics</b>	
Mhatre, R. P., BE DipArchit	Prof	Narasimhan, M. N. L., MSc PhD	Asst. Prof
6 Asst Profs, 10 Lectrs., 1 Assoc Lectr.		Marathe, C. R., MA PhD	Asst. Prof.
<b>Engineering, Electrical</b>		4 Lectrs., 2 Assoc. Lectrs.	
Bhagavat, G. K., BE Di Ing	Assoc. Prof.	<b>Physics</b>	
Mulcherry, K. C., BE PhD	Assoc. Prof.	Singh, R. P., MSc PhD	Asst. Prof
8 Asst. Profs., 12 Lectrs.		3 other Asst. Profs., 5 Lectrs	
<b>Engineering, Mechanical</b>		<b>Russian</b>	
Parulekar, B. B., BE	Assoc Prof	Bakaya, R. M.	Lectr.
4 Asst Profs, 9 Lectrs, 3 Assoc. Lectrs			

## ADMINISTRATIVE AND OTHER STAFF

Accounts Officer: S. C. Madon, BCom. Asst  
 Registrars: (Admin) S. N. Lahori, MA LLB  
 DipRussian; (Academic) S. B. Dhawanekar, BA  
 LLB. Dep Librarian: B. I. Tirvede, BSc MA  
 DipLab. Med. Officer: S. N. Chakraborty,  
 MB BS. Stores Officer: P. G. Pradhan, BE.

## GENERAL INFORMATION

Establd. in 1958 by the ministry of scientific  
 & cultural affairs, the inst was, by act of  
 parliament of 1961, declared to be an autonomous

body with the status of a univ. and empowered to  
 confer degrees. It is constituted to provide teach-  
 ing in engin (chem, civil, electr., mech, metall),

humanities and soc. sci., mech., and phys. The inst. was begun in collaboration with Unesco, technical assistance in the form of 18 Unesco experts, and of equipment worth 10 million roubles, being provided by the U.N. Technical Assistance Bd. The govt. of India is responsible for all other costs, incl. capital and recurring expenditure. The U.S.S.R. made a further gift of equipment valued at 3 million roubles.

The inst. has been establd., as one of 4 insts. of natl. importance, to impart knowledge in the field of engin. and technol. to young men from different pts. of the country and with power to award degrees of bachelor, master and doctor in various branches of those subjs. It has facilities for the tlg. of 1600 undergrad. and 400 postgrad. and res. students. Annual intake, about 380 undergrads. and about 150 postgrads.

The inst. is located in an area of about 550 acres around the Powai lake.

**LIBRARY.** Over 25,000 vols.

**LABORATORIES** for these depts.: engin. (chem., civil, electr., mech., metall.), maths., phys.

**ADMISSION.** Entrance exam. for all candidates. Min. qualif. for entry to 1st yr. of 5-yr. integrated course is higher sec. or pre-univ. or eq. Chem. idgo. or equivalent exam. At an interim measure, candidates who have passed an inter. sci. or pre-profess. or pre-engin. exam. may be admitted direct to the 2nd yr. of the 5-yr. course.

**FIRST DEGREE.** 5-yr. integrated course—B.Tech.

**HIGHER DEGREE.** a yrs. (after bachelor's degree in engin. or master's in sci.)—M.Tech. 3 yrs. (after bachelor's degree in engin. or technol.)—Ph.D., D.Sc.

Postgrad. students must undertake a project in

and yr. of course, and submit a dissertation which has to be defended before a bd. of examiners and a gathering of other teachers and students.

**OTHER COURSES.** Short-term refresher courses (for engineers from instns. and industries) in various branches of engin. and technol.

**RESEARCH.** forms integral pt. of assignments of students, scholars and fellows. Res. facilities available for staff members of inst. Res. problems (on basis of consultation practice) investigated on behalf of private enterprise and govt. depts. by both the inst. and individual members of staff.

**FEE.** Applicn. Rs. 10 p.a. (undergrad.), Rs. 5 p.a. (postgrad.), admission: Rs. 10 p.a., tuition: Rs. 200 p.a., hostel: Rs. 100 p.a. (undergrad.), Rs. 180 p.a. (postgrad.), consolidated fee: Rs. 27 p.a.

**ACADEMIC YEAR.** 2 terms: beginning July 1 for undergrads. and Aug. 1 for postgrads.

**SCHOLARSHIPS.** Undergrad. (awarded to 25 per cent. of entrants): Rs. 75 per month plus free tuition. (In addn., tuition is free to further 10 per cent. of entrants). Postgrad. (awarded to all entrants): Rs. 250 per month. Res. scholrs. for students undertaking res. for a doctorate degree and post-doctoral fellowships also available.

All students belonging to backward classes exempt from tuition fees.

**RESIDENCE.** The inst. is fully residential, providing on the campus hostel accomm. for all students and living quarters for teaching and admin. staff.

**STUDENT HEALTH.** Hosp., with med. officer in charge, attached to inst. In addn., specialist med. facilities at a Bombay hosp. available to students and staff members.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: main admin. bldgs. (incl. class-rooms, drawing halls, admin. offices), deptl. bldgs. for civil, mech. & metall. engin.; a teaching/storage block; 5 hostel bldgs. for students, 1 lecture theatre; 9 workshops, 1 staff hostel, residential quarters for staff.

### Statistics

	Full-Time		Part-Time
	Men	Women	
	765	—	—
	—	—	—
Total	765	—	—

Included in the figures above are:—

Postgraduate students, 57

Students from other countries, 3 (from Nepal).

# INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

Founded 1960

Postal Address: Kalyanpur, Kanpur, Uttar Pradesh, India

Cables and Telegrams: Technology, Kanpur

Telephone: 26746, 27189, 27559

CHAIRMAN OF BOARD OF GOVERNORS—C B GUPTA, MA LLB, Chief Minister, Uttar Pradesh

DIRECTOR—P. K. KELKAR, BSc PhD, MIEE

DEPUTY DIRECTOR—M. S. MUTHANA, MSc PhD

REGISTRAR—C. J. S. BENDRA, MA LLB

## TEACHING STAFF

[I — Part-Time]

<b>Chemistry</b>		Radhakrishna, H. C., MSc(Engg)	Lectr.
Bhatnager, M. S., MSc PhD	Asst. Prof.	Sahai, C., BSc BE	Lectr.
Raut, K. B., MSc PhD	Asst. Prof.	Shastri, V. M. K., BTech ME	Lectr.
Anand, V. D., MSc PhD	Lectr.		
Dhar, D. N., MSc PhD	Lectr.		
<b>Engineering, Chemical</b>		<b>Engineering, Metallurgical</b>	
Subba Rao, V., MSc MS PhD	Asst. Prof.	Agarwal, V. K., BSc(Met) MS	Asst. Prof.
Jayaraman, V. V., MTech	Lectr.	Vaidya, M. L., BE(Met)	Lectr.
Rao, A. S., MSc(Tech)	Lectr.		
Saraf, S. K., MTech	Lectr.	<b>Humanities</b>	
Bhagat Singh, Y. S., MTech	Lectr.	Trivedi, R. D.	(Engl)   Prof.
<b>Engineering, Civil</b>		<b>Mathematics</b>	
Agarwal, G. D., BE	Lectr.	Bhargava, R. D., DIC, MA PhD Lond	
Bokil, S. D., MTech	Lectr.		
Kapoor, M. P., BTech	Lectr.	Kapur, J. N., MA PhD	Asst. Prof.
Gopal Krishnayya, A. V., ME	Lectr.	Nagar, A. L., MSc PhD	Asst. Prof.
Nigam, M. C., BSc BE	Lectr.	Soni, G. L., MA	Lectr.
Patel, V. J., BE DrIng	Lectr.	Srivastava, R. P., MSc PhD	Lectr.
Subramanya, K., BE MSc(Engg)	Lectr.	Seivastava, R. S. L., MSc PhD	Lectr.
<b>Engineering, Electrical</b>		<b>Physics</b>	
Hasan, M. M., MSc BSc(Engg)	Lectr.	Mahancy, J., MSc PhD	Asst. Prof.
Ramalingaswami, K., PhD MTech	Lectr.	Narasimhan, P. T., MSc PhD	Asst. Prof.
Singh, L. P., BSc(Engg)	Lectr.	Parsons, A. S., MSc PhD	Asst. Prof.
<b>Engineering, Mechanical</b>		Ray, R. K., MSc PhD	Asst. Prof.
Bhargava, J. P., BE	Lectr.	Vankateswarlu, P., DSc	Asst. Prof.
Kaisth, G. S., BE(Mech)	Lectr.	Dwari, R. R., MSc PhD	Lectr.
Naraina, D. R., BSc(Engg) ME	Lectr.	Deo, B. B., MSc PhD	Lectr.
		Sen, S. C., MSc PhD	Lectr.
		Srivastava, R. C., MSc	Lectr.

## GENERAL INFORMATION

The Indian Inst. of Technology, Kanpur, is one of 4 higher technological instns. set up by the

govt. of India to implement the recommendations of the Sarkar Cttee. An autonomous body, it

began to function in 1960 in borrowed bldgs made available by the govt of Uttar Pradesh. The first group of students was admitted in Aug of that yr. The inst has now been declared an instn of national importance by an act of parliament known as the Institutes of Technology Act, 1961.

Although the overall policy for the four insts is decided by a council, the management of the inst. is vested in the bd of governors, of which the chief minister of Uttar Pradesh is the permanent chairman. The bd has 10 members representing various interests incl. educn and industry. The dir is a member ex officio of the bd. Two nominees of the senate from the profs of the inst are also members of the bd of governors in rotation.

The inst. will be located in a campus, covering an area of 423 hectares, at Kalyanpur which is 10 kilometres from the centre of the city of Kanpur. The inst. is expected to be fully residential and construction of institutional bldgs, hostels for students and quarters for staff is in progress. When completed, it is expected that there will be provision for 3000 students (1600 undergrad. and about 1400 postgrad.), the teaching staff numbering about 350 and consisting of profs, assoc. profs, asst. profs and lectrs. At present the depts. are as listed above under 'Teaching Staff'. It is expected that in the near future a dept. of aeronautical engin. will be added.

The instn. has been promised substantial aid by the U.S. govt. A notable development is the formation of a consortium of 9 leading univs. and technological instns. of the U.S.A., namely California Inst. of Technology, Carnegie Inst. of

Technology, Case Inst. of Technology, Massachusetts Inst. of Technology, Ohio State Univ., Princeton Univ., Purdue Univ., Univ. of California and Univ. of Michigan.

Early in 1962 there was signed between the U.S. govt. and Educational Services Incorporated a contract for co-ordinating and channeling this assistance to the inst. The consortium is organized around Educational Services Incorporated, a non-profit instn. engaged in a variety of specialized activities in educn. The pres. of each instn. has apptd. a representative. The programme of assistance consists of 3 major aspects, (1) consortium faculty working at Kanpur, (2) Kanpur faculty receiving on-the-job experience in the consortium instns., and (3) planning and procuring equipment, materials and books for Kanpur where these are not available within India. Each member instn. will be participating in all 3 aspects of the programme. Visiting profs. in aspects with the faculty of the inst. will work on the development of curricula and of individual areas of instructn., the development of teaching methods and materials appropriate to the environment, the planning of teaching and res. labs., the purchase and installation of laboratory equipment, the planning and development of library facilities, and the establishment of res. programmes with particular emphasis on finding significant problems related to Indian conditions and needs.

The inst. will award degrees of bachelor, master and doctor in engin., sci. and technol. (exact nomenclature is not yet settled).

The inst. has now admitted its 3rd group of new students and it is expected that it will move to its own campus in 1963.

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62		
	Full-Time	Part-Time
Men	191	—
Women	—	—
Total	191	—

Distribution by Subjects. Chem. engn., 27,

civil engn., 25; electr. engn., 48; maths., 1; mech. engn., 58; metall. engn., 31; phys., 1  
Total 191.

Included in the figures above are —

Postgraduate students, 2.

New admissions, 102.

Students from other countries, 1 (from Bhutan)



# INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

Founded 1951

Postal Address: P.O. Kharagpur Technology, Kharagpur, West Bengal, India

Cables and Telegrams: Technology, Kharagpur

Telephone: Hyls 220, 222, 225

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA

CHAIRMAN OF BOARD OF GOVERNORS—P. C. SEN, Chief Minister, Government of West Bengal

DIRECTOR—S. R. SLM GUPTA, PhD Glas, MIE(India)

DEPUTY DIRECTOR—Professor V. N. PRASAD

REGISTERAR—K. C. CHAKRAVARTY

## TEACHING STAFF

### Architecture and Regional Planning

Pinnad, V. N.	Prof, Hd. of Dept
Rao, D. V. R., BSc BEng BArch Lev,	
MCP Penn,	Prof
Banerjee, A. K., MArch <i>Rennelcher</i>	Asst Prof
Dhar, R. K., BArch MFA III	Asst Prof
Bhagwati, P. B., BSc	
Dipilandscape Des <i>Dash</i> .	Lectr
Mitra, G. C., BArch	Lectr
Sen, B. N., MA DPhil	Lectr
Subbaskrishnan, A., BSc BArch MS	Lectr
Virdi, H. S., BArch	Lectr
4 Assoc. Lectrs	

### Chemistry, Applied

Bhattacharya, S. K., DSc, FNI,	
FRIC	Prof, Hd. of Dept.
Banerjee, S., MSc PhD	Asst Prof
Sen, A. K., MSc DPhil	Asst Prof
Banerjee, S. N., MSc DPhil	Lectr
Bhattacharya, N. K., DPhil	Lectr
Chatterjee, B. G., DPhil	Lectr
De, K. S., MSc PhD <i>Bent</i>	Lectr
Gangula, N. D., MSc(Tech) PhD	Lectr
Ghosh, A. R., MSc	Lectr
Mangaraj, D., MSc PhD	Lectr
Mitra, S. S., MSc	Lectr
Nanda, D. K., MSc PhD	Lectr
Palit, S. K., MSc(Tech) PhD	Lectr
Pandey, S. N., MSc PhD	Lectr
4 Assoc. Lectrs	

### Electronics and Electrical Communication Engineering

Rakshit, H., DSc, FIP, FNI	Prof, Hd. of Dept
Fett, G. H., MS PhD	Prof

### Bose, K. K., Dapling *Mumch*,

Daing <i>T. H. Dresden</i>	Asst. Prof
Chatterjee, B., MSc PhD	Asst Prof
Das, J., DSc	Asst Prof
Sanyal, G. S., MSc	Asst Prof
Achutan, M. K., BE	Lectr
Das, B. N., MSc(Tech)	Lectr
Faruqui, M. N., MTech	Lectr
Rangn Rao, J. V., MTech	Lectr
3 Assoc. Lectrs	

### Engineering, Agricultural

Pandya, A. C., BE MS <i>Isser</i>	Prof, Hd. of Dept
Ilakma, A. A., BE <i>Mash</i> , MS III	Prof
Arya, S. V., BSc MS III	Asst Prof
Ghaldyal, B. N. P., MSc DPhil	Asst Prof
Panda, H. K., MSc PhD	Asst Prof
Roy, S. E., MS PhD <i>Pawn</i> .	Asst Prof
Gopinath, C. D., BSc BTech	Lectr
Moolani, M. K., MS PhD III, MSc	Lectr
Ojha, T. P., BSc MTech	Lectr
Singh, Jovanat, BSc	Lectr
3 Assoc. Lectrs	

### Engineering, Chemical

Narasimha Rao, N., DSc <i>And</i> ,	
PhD <i>Wiz</i>	Prof, Hd. of Dept
Nanda, S. K., MSc	Prof
Roy, A. N., DSc	Prof
Sardarachin, A. G., CandTechSc	Prof
Mukherjee, S. G., BE	Asst Prof
Guha, D. K., BChE MTech	Lectr
Banerjee, T. S., BChE	Lectr
Kaun, M. N., BA BChE	Lectr
Mitra, A. K., BChE PhD	Lectr
Roy Choudhuri, N. K., MSc PhD	Lectr
Roy, N. K., BChE PhD	Lectr

Roy, N C, MSc(Tech) DPhil	Lectr	Chandrasekhar, K. G, BE PhD	Prof
Sen, P, Dring <i>Sci</i> , MSc	Lectr.	Fellows, J R, MS	Prof
Sen Gupta, P, BChE PhD	Lectr	Miles, J C, MSc MS	Prof
Sherma, K J R, MSc(Tech) PhD	Lectr	Mishra, R, MSc <i>Bow</i> , MIE(India)	Prof
2 Assoc Lectrs		Mokdani, R G, PhD <i>Maw</i> , BSc MME	Prof
		Basu, S K, CandTechSc Moscow,	

# Engineering, Civil

Visweswara Rao, J, BE MSc, MIE(India)	Prof, Hd of Dept.	Dutta, N K, MS <i>III</i> , BE	Asst Prof
Sen, B R, MSc CE <i>Rao</i> , MS <i>Jawa</i> , PhD	Prof	Ghosh, D P, BSc BE	Asst Prof
Wah, T, MS PhD	Prof	Kushnan, A., DIC, BE MTech	Asst Prof
Bhattacharyya, B, ME	Asst Prof	Lakshminarayana, C N, BE	Asst Prof
Ghosh, S K, MSc Col, BE	Asst Prof	Sinha, G. L., Dring <i>T H Hawver</i> , BE	Asst Prof
Mallik, S K, BSc(Eng) <i>Patna</i> , PhD	Asst Prof	Chakrabarty, P N, MTech	Lectr.
Murthy, V N S, MS <i>III</i> , BE	Asst Prof	Das, S C, MSc MTech	Lectr
Narasimhan, R K, MS <i>Moscow</i> , BE	Asst Prof	Das Gupta, M L, MA BCom	Lectr
Neogy, B N, BSc BE MTech	Asst Prof	Davis, A S, BE	Lectr
Neogi, S K, BE	Asst Prof	Ghosh, P C, BME	Lectr
Rangaswami, K S, MS <i>III</i> , BSc BE PhD	Asst Prof	Ghosh, B G, BME	Lectr
Roy, N, MS Col Tech, BE	Asst Prof	Jana, S C, BME	Lectr
Venkataraman, V, MS <i>Maw</i> , MA BE	Asst Prof	Kar, B N, BME	Lectr
Gopalan, V S, MSc BE	Lectr	Kulkarni, S V, BE MTech	Lectr
Ismail, H M., BE MTech	Lectr.	Mohan, R, BE	Lectr
Jeyaraman, V V, BE MTech	Lectr	Montoy, N S, MS <i>III</i> , BE	Lectr
Kar, J N, BE MTech	Lectr	Narayan, H R, BE	Lectr
Ramamurthy, L N, BE MTech	Lectr	Panigrahy, P K G, BSc MTech	Lectr
Rama Rao, B S, MTech	Lectr	Paul, B M, BSc	Lectr
Koteswar Rao, S, BE MTech	Lectr	Ram Mohan, T, MTech	Lectr
Pillai, C R S, BE MTech	Lectr	Sen Gupta, S N, MTech	Lectr
Reddy, C S, BE MTech	Lectr	Sahu, K C, BTech	Lectr
Roy, D P, BE CnE, CEMS	Lectr	10 Assoc Lectrs	
Sastri, M K L N, BSc BE MTech	Lectr		
Sen, R N., BE MTech	Lectr		
Srinivasan, K, BE MTech	Lectr		
Upret, T R, Dring <i>T H Darden</i> , BE MTech	Lectr		
12 Assoc Lectrs, 1 Asst Lectr, 1 Instr.			

# Engineering, Electrical

Memon, K B, MScTech <i>Maw</i> , BSc	Prof, Hd of Dept	Dhar, P R, MS Col, MSc	Prof, Hd of Dept
Kesavmurthy, N, MScTech <i>Maw</i> , MA BE	Prof	Katchikav, A, CandTechSc	Asst Prof
Rajagopalan, P K, MS <i>III</i> , BE PhD	Asst Prof	Banerjee, P, BMet	Asst Prof
Rajagopalheger, B S, MS <i>III</i> , BSc BE	Asst Prof	Sen, P K., ME	Lectr.
Chatterjee, A, BSc <i>Glas</i> , MSc <i>Bom</i>	Lectr	Gill, D S, BSc MS	Lectr
Gopalaraman, K V, BE	Lectr	Lahiri, D P, BE	Lectr
Gopchand, K, BSc MTech	Lectr	Mulund, P G, MTech	Lectr
Gupta, S R, BA	Lectr	Roy, S, BSc BMet	Lectr
Krishnamurthy, M R, BE MTech	Lectr	Sinclair, S C, MS PhD	Lectr
Krishna, P. C. S., BE MSc	Lectr	Sen Gupta, H R, BSc BMet	Lectr
Murthy, D V S, MSc	Lectr	2 Assoc Lectrs	
Roy Choudhury, S P, Dring <i>T H Darden</i> , BE	Lectr		
Sahu, L N, BTech MS	Lectr		
3 Assoc Lectrs			

# Engineering, Mechanical

Belgumkar, B M, BSc, MIE(India)	Prof, Hd. of Dept	Ramha, M. A., BSc <i>Madr</i> , BSc(Mm) <i>Ban</i> , Dring <i>Clanthal</i>	Prof, Hd of Dept
		Dutta, H N, BSc MS	Asst Prof
		Manna, G B, MEngSc <i>Mab</i>	Asst Prof
		Sen, D K, BSc	Lectr
		1 Instr.	

# Geology and Geophysics

Bischi, T C, DIC, PhD <i>Leod</i> , MSc	Prof, Hd of Dept	Bhattacharyya, P K, MS PhD <i>Col.Tech</i> , MSc	Prof
		Ganguly, D K, MS <i>St Louis</i> , MSc	Asst Prof
		Neogi, D, MS <i>III</i> , MSc PhD	Asst Prof
		Siddhanta, S K, MS <i>III</i> , MSc	Asst Prof
		Bhattacharyya, T K, PhD <i>Trar</i> , MTech	Lectr



& cultural affairs, govt of India; a rep of ministry of finance, govt. of India, a rep. representing the other ministries of govt. of India; dir-gen., Council of Scientific & Industrial Res.; dir. of the inst., chairman, Univ. Grants Commission; 2 members of Lok Sabha, 1 member of Rajya Sabha. The registrar of the inst is the sec. & office, of the bd. A finance cttee and bldg. & works cttee advise the bd. of governors on financial and constructional matters respectively.

**INCOME.** The inst is financed by the govt of India.

The Campus covers 1400 acres

**LIBRARY** 54,718 vols and about 9000 vols. of journals

ADMISSION to undergrad courses is made by selection through a competitive entrance exam (held at different centres in the country), a viva voce exam, and med test. Admission to postgrad. courses is made on results of interview and practical test.

To be eligible for admission to undergrad courses, students must be between 16 and 18 and have higher sec with chem., maths and phys., or equivalent, to be eligible for admission to postgrad. courses, a 1st class master's degree in an appropriate sci subj or a bachelor's degree in an appropriate engin or technol subj. is needed.

The number of students that can be admitted is restricted to a total of 350 undergrads, and to 8 for each postgrad. course.

**FIRST DEGREES** 3 yrs.—BSc honrs., 5 yrs.—BTech, BArch.

BSc may be taken with honrs in chem., maths and phys.

BTech may be taken in appl geol., engin (agric., chem., civil, elect., electronics & electr communication, mech., metall., and mining), exploration geophys., naval archit.

Under the 'tutor system', 10-12 freshmen are placed under the care of a teacher.

**HIGHER DEGREES.** Postgrad courses lead to MTech in following subjs: soil & water conservation engin.; farm machinery & power; appl. bot.; tech. gas reaction & high pressure technol.; high polymer & rubber technol.;

synthetic drugs & fine chemicals, regional planning (town & country planning), combustion engin & fuel econ.; chem plant des. & fabrication, petro-chem engin., struct engin.; dam construct., water power engin.; soil mechanics & foundation engin., highway engin., municipal engin., harbour engin., electr. machine des., control system engin.; indust. electronics; radio-broadcast engin., ultra-high frequency & microwave engin., appl geol.; exploration geophys., geochern., non-linear mechanics, machine des., mech. handling; mechanisms & vibrations, prodn engin., indust. engin., refrigeration & air-conditioning plant des., ferrous metall.; indust. phys. MTech course lasts 12 mos (geol and geophys., 2 yrs).

Facilities for res. in various branches of sci. & technol. leading to PhD (3 yrs) and DSc. (after not less than 5 yrs. res.)

**DIPLOMAS:** 1 yr.—regional planning (postgrad.).

**OTHER COURSES.** Short-term mod foundry practice (3 mos.), residential study course for sci. indust. executives (2 wks.). The inst. is one of the 5 instns where the tech. teachers' trg. programme of the Ministry of Scientific Res. & Cultural Affairs, govt. of India, is conducted.

**FEEs.** Postgrad and undergrad students. Tuition Rs 200 p a., seat rent & establishment charges - Rs 100 p a. (undergrad halls), Rs. 180 p a. (postgrad halls), admission, Rs. 10., caution money, Rs 85; med exam, gymkhana, etc., Rs 27. Res. scholars and postdoctoral fellows. Caution money, Rs 100.

**ACADEMIC YEAR.** Undergrad 3 terms (4 terms for final yr) beginning in July, postgrad.: 4 terms beginning in Sept.

**STUDENT RESIDENCE.** The inst. is wholly residential with 8 halls for men and one for women.

**HEALTH SERVICE.** The inst. hosp., headed by a med. officer, gives free med. service to students, and to staff and their families.

**PUBLICATIONS.** *Journal of Science and Engineering Res.* (twice a yr.); *Bulletin of General Information*; *Annual Report*; *Information Brochure for Postgraduate Students*; *Ordnances, Regulations and Rules.*

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	1877	—
Women	15	—
Total	1892	—

Distribution by Courses: BTech & BArch, 1611; BSc honrs, 15; MTech, 165; res., 60; teacher trainees, 41. Total 1892.

Included in the figures above are:—

Postgraduate students, 225.  
New admissions, 640.  
Students from other countries, 19 (Country from which largest number came - Nepal, 12).

**DEGREES AWARDED (1960-61)** BTech, 306; BSc honrs, 12; BArch, 21; MTech, 135; PhD, 23.

# INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

Founded 1959

Postal Address IIT P.O., Madras 36, India

Cables and Telegrams Technology, Madras

Telephone, Madras 87176-7, 88835

CHAIRMAN OF BOARD OF GOVERNORS—SRI A. LAKSHMIANARAYAN MUDALIAR, DCL Oyon, Hon. LL.D.

McG., BA MD LL.D DSc Madh, FRCOG, FACS

DIRECTOR—Professor B. SINGUPET, BSc(Eng), MIMechE

REGISTRAR—R. NARAJAN, MA BL

## TEACHING STAFF

[† = Part-Time]

### Applied Mechanics

Reddy, D. V., BE MS PhD	Asst. Prof
Chandrasekharaswamy, N. V., BE MSc	
	Asst. Prof
Veluswamy, M. A., BE MSc	Lectr
Gangadharan, A. C., BE	Assoc. Lectr
Narasimhamurthy, G. K., ME	Assoc. Lectr
1 Sr Tech Asst	

### Chemistry

Sastri, M. V. C., MSc PhD	Prof
Srinivasan, V., MSc PhD	Lectr
Akramamudhan, G., MSc PhD	Lectr
Srinna, S. R., MSc PhD	Assoc. Lectr
Swamy, C. S., MSc	Assoc. Lectr
2 Sr Tech Assts	

### Engineering, Chemical and Chemical Technology

Venkateswulu, D., MSc MS	Asst. Prof
Gopichand, T., DSc	Lectr
Sethumurthy, M., MSc PhD	Lectr
Seshadri, C. V., BSc MS PhD	Lectr
Ramanujan, M., MSc	Lectr
Varma, Y. B., BSc MTech	Lectr
3 Sr Tech Assts, 1 Jr Tech Asst.	

### Engineering, Civil

Sankaran, K. S., BE MSc	Asst. Prof
Victor, D. J., ME	Lectr
Balakrishnan, S., BE MSc	Lectr
Radhakrishnan, R., BE MSc	Lectr
Muthayya, V. D., MSc	Lectr
Penduranga Rao, M. V., BA MTech	Lectr
Naguraja, Y. R., ME	Lectr
Rajagopalan, N., BE	Assoc. Lectr

### Engineering, Electrical

Venkata Rao, P., DSc	Prof
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Sampath, S., BSc MS	Prof
Murty, V. G. K., ME	Asst. Prof
Ramaswami, B., BE MSEE	Lectr
Ramalinga Bhat, T. A., BSc MTech	Lectr
Satyamurthy, Raju, C., BSc BTech ME	Lectr
Drauid, N. V., BTech ME	Assoc. Lectr

### Engineering, Mechanical

Narayanaswamy, R. G., BE	Prof
Gupta, M. C., ME	Asst. Prof
Padmanabhan, S., BE	Lectr
Srinivasan, P. S., BE	Lectr
Rayudu, G. V. N., BE MS	Lectr
Radhakrishnan, P., BE MS	Lectr
Parmaneswaran, M. A., BTech	Lectr
Sui, S., BSc BTech	Lectr
Raman, S., BE MSc	Lectr
Padiyas, K. S., BSc MTech	Lectr
Rajasekharamurthy, C., ME	Lectr
Nagabhushana, C. J., BE MME	Lectr
Magundar, S. R., BE	Lectr
Radhakrishnan, V. M., BE	Assoc. Lectr
Krishnamurthy, C. N., BSc BE	Assoc. Lectr
Gopalakrishnan, K. V., BE MTech	Assoc. Lectr

### Humanities

Krishnan, A. L.	[Prof]
Krishnamurti, R.	[Prof]
Anantaraman, V., MA PhD	(Econ) Asst. Prof
Vijaynathan, G., MA	Assoc. Lectr
1 Jr Tech Asst	

### Mathematics

Srinivasan, S. K., BA MSc PhD	Asst. Prof
Chandra Das, S., MSc DPhil	Lectr
Srinivasa, K. J., MSc PhD	Lectr
Sarma, L. V. K. V., MSc PhD	Lectr
Rajappa, N. R., MSc	Assoc. Lectr
3 Sr Tech Assts	

**Metallurgy**

Ramachandran, E. G., MSc PhD	Prof
Ramachandran, T., BSc(Eng) PhD	Asst Prof
Pillay, T. C. M., MSc PhD	Asst Prof
Das Gupta, S. S., BSc BTech	Lectr
1 Sr Tech Asst	

**Physics**

Ramaswamy, C., DSc	Asst. Prof
Ramaswamy, B. V., MSc	Lectr
Sivaramakrishnan, V., BSc MA	Lectr
Khadikar, M. D., MSc MTech	Lectr
Narayanan, C. K., MA MSc	Lectr
Gopalram, B. S. V., MSc	Assoc Lectr
Sastri, S. B., MSc	Assoc Lectr

Gopalakrishna, E. M., MSc	Assoc Lectr
3 Sr Tech Assts	

**German Staff Members**

Haug, K. W., DrIng T.H. Munch (Machine Dynamics, Vibrations, Machine Design)	
Klein, N., DrPhil Tubingen	(Humanities)
Koch, W., DrPhys Göttingen	(Appl Phys)
Scheer, W., DrMechEng T.H. Braunschweig (Mech Engin)	
1 Workshop Supt., 4 Foremen (tool making & machine tools; instrument making, electrical, foundry)	

**GENERAL INFORMATION**

The inst is the 3rd in the group of 4 nil-India technol instns estab. by the govt of India in the N., S., W and E regions of the country, their purpose is to undertake advanced res in technol and conduct undergrad & postgrad courses. The IIT, Madras, was set up in 1959 and has been created on instn of natl importance by an act of parliament which gave it power to award degrees, diplomas and other academic distinctions or titles incl honorary degrees.

The inst was estab. with the collaboration of W. Germany from which it receives the following assistance: (a) German equipment & tech books to value of DM 15 million; (b) services of 20 German specialists & 4 German foremen; (c) stipend in German instns. for 2 yrs (with schol awards & study subsidies) for 20 Indian teachers with a view to their appt in due course to the staff of the inst.

The inst has a large constrcn programme which will cost about Rs 5 crores. Total expenditure on the IIT, project will be of the order of Rs 7 crores.

**CONSTITUTION** The direction and control of the inst's affairs and its income and property are vested in the bd of governors, which is an authority under the act's provisions. The bd comprises the chairman, nominated by the union, the dir., ex officio; 5 persons nominated by the govt of each state in the zone in which the inst is situated, chosen from among technologists or industrialists of repute, 4 persons with sp knowledge or practical experience of educn, engin or sci, nominated by council, 2 profs of the inst, nominated by senate. The dir is the principal acad & exec officer of the inst. These bodies advise the bd. senate, finance cttee, bldgs & works cttee.

**INCOME (1961-62)** Total: Rs 12,450,532; govt. of India, Rs 12,300,000; student fees etc., Rs 150,532

U 2

**LIBRARY** Over 20,210 vols.

**ADMISSION** Applicants who have passed the pre-univ. exam. or higher sec exam of any statutory bd or equivalent exam., with appropriate sci or tech subjs, are eligible for admission to 1st yr. of 5-yr. BTech integrated course. Applicants with 1st class BSc degree in maths or phys or with pre-engin (1st class), may be admitted direct to 2nd yr.

**FIRST DEGREE** 5 yrs—BTech integrated course

**HIGHER DEGREE** Postgrad courses begin in 1962-63. 2 yrs.—MSc, 2 yrs (incl practical trg and design work)—MTech; 3 yrs.—PhD.

**STUDY LEAVE** granted to permanent staff members for advanced study or trg. in India or abroad.

**FEES** Annual tuition (undergrad. & postgrad.), Rs 200 p.a.; registration, Rs 10 p.a.; gymkhana/used, Rs 22 p.a.; hostel rent, Rs 100 p.a.; caution deposits, Rs 85 p.a.; hostel mess, Rs. 60 p.a.

**ACADEMIC YEAR** 1st wk July to end April.

**LANGUAGE OF INSTRUCTION** English

**STUDENT RESIDENCES** All students, res. scholars and res. fellows must reside in one of the halls of residence.

**STAFF RESIDENCES** Residential accomm. is provided on the campus for all academic staff and a proportion of other staff.

**NATIONAL CADET CORPS** trg. is provided

**STUDENT MEDICAL AID FUND**, comprising contributions from students and equal sum contributed by inst., is used to grant financial aid in appropriate cases to students unable to meet hosp. expenses.

**PUBLICATIONS** *Prospectus*; *Inst. Magazine*, *Sci & Technol*

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	382	—
Women	—	—
Total	382	—

*Included in the figures above are —*

Postgraduate students, nil  
New admissions, 135

No DEGREES AWARDED since inst. only in 3rd  
yr. of existence

# UNIVERSITY OF JABALPUR\*

Founded 1957

Postal Address: Jabalpur, Madhya Pradesh, India

Cables and Telegrams: University, Jabalpur

Telephones: Jabalpur 712, 713, 715

CHANCELLOR—H V PATANKAR, BA LL.D, Governor of Madhya Pradesh

VICE-CHANCELLOR—S D SHARMA, PhD Cand., MA LL.M, Minister of Education of the State of Madhya Pradesh

DEAN—V R SEN, MA BSc LLB

DEAN—U MISRA, MA LLB

DEAN—B L PANDEY, MA LLB

DEAN—S C SETHI, MA

## TEACHING STAFF

(Teachers recognised as Professors by the University)

### Recent Indian History and Culture

Day, R., MA PhD

### Chemistry

Sh, S., DSc, FNI

### Education

Sh, A., MA BSc LLB BT D Litt

### Engineering, Civil

Shamaswamy, A., ME

### Engineering, Mechanical

Sh, V. D., BSc(Engg)

### Engineering, Telecommunication

Sh, V. V., MSc

### English

### Geology

Sh, R. L., BAg PhD

### Indology

Sh, U. N., MA D Litt

### History

Sh, H. N., MA PhD Lond.

### Medicine

Sachdev, J. C., MSc PhD MB BS (Physiol.)

Mishra, M. P., DTM&H Calc., MD BS

Rao, Y. G., MB BS

Goswami, S. L., MD BS

(Pharmacol. & Therapeutics)

Wahi, P. N., MD BS (Pathol. & Bacteriol.)

Keshal, K. D., MB BS, FRCS (Surg.)

Bhargava, R. P., MB BS (Physiol.)

Choudhary, D. S., DOMS Patna, MB BS PhD (Anat.)

Chaudhary, M. S., BSc MD BS (Physiol.)

Goti, I. B., DOMS Patna, MB BS (Ophthalmol.)

Wagh, K. V., MD BS (Obstet. & Gynaecol.)

Mishra, M. P., MD BS

Maswala, S. M., MB BS (Plac. & Soc. M.)

Sachdev, Mrs. S., MD BS

### Philosophy

Sharma, C. D., MA DPhil D Litt Alld.

### Political Science

Aswatham, E., BD Serampore, MA PhD

### Sanskrit, Pali and Prakrit

Jain, H. L., MA D Litt

### Sociology

Motwani, K., MA PhD

### Veterinary Science

Mangrulkar, M. Y., MSc DTVM Edn.

\* Member of the Association of Universities of the British Commonwealth



## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar (Offg.). E S Elia, MA of Phys. Educn. C S. Rathore, DipPhysEd  
Asst Registrar K K Shivastava, MSc Dir. Luck, MA. Univ. Engineer U C Jain, BE

## AFFILIATED COLLEGES

[Except for the S S A and T R Mahavidyalaya, Katni, all are in Jabalpur. BA, BCom, etc., after the name of a coll. means that courses are provided there for BA, BCom, etc.]

C P MAMLA MAHAVIDYALAYA (F 1944) (tel. 946) BA Principal—G M Ranade, MA BT. 14 Teachers

D N. JAIN MAHAVIDYALAYA (Founded 1940) (tel. 812) ICom, BA, BCom, MA, MCom Principal—B S Audhola, MA BCom 26 Teachers

GOVERNMENT COLLEGE OF AGRICULTURE (F 1955) (tel. 708). BSc(Agr), MSc(Agr). Principal—R. L. Gupta, BA BPhil 31 Teachers

GOVERNMENT ENGINEERING COLLEGE (F 1947) (tel. 128). BE (hons.), ME Principal—V. M. Dolas, MSc PhD Col. 60 Teachers

GOVERNMENT MEDICAL COLLEGE (F 1955) (tel. 221) MB BS Dento—J C. Sachdev, MSc PhD MB BS 54 Teachers

GOVERNMENT SCIENCE COLLEGE (F 1936) (tel. 737). ISc, BSc, MSc. Principal—G R. Inamdar, MSc 83 Teachers

GOVERNMENT VETERINARY COLLEGE (F 1948) (tel. 44). BVSc, MVSc Principal—M. Y. Mangrulkar, MSc DVM Edw. 34 Teachers

G. S. COLLEGE OF COMMERCE AND ECONOMICS (F. 1948) (tel. 130). BCom, MCom, MA. Principal—P. L. Baldua, MA BCom 24 Teachers.

HAWARAH WOMEN'S COLLEGE (F 1928) (tel. 345). DipT, dipl in nursery educn, BA, BSc, BEd(Basic) Principal—Miss Zafiah L. Soule, MA MEd 26 Teachers.

HIRABINI LAW COLLEGE (F. 1933) LLB Principal—S C Upadhyaya, MA LLB 6 Teachers

HIRABINI MAHAVIDYALAYA (F 1933) (tel. 327) BA, MA Principal—N M Deshpande, MA LLB. 17 Teachers

INSTITUTE OF LANGUAGES AND RESEARCH (F. 1956) (tel. 696). Management transferred to univ from 1/4/60 for 5 yrs initially. PhD in Engl, Hindi, hist, Sansk, Pali & Prakrit; postgrad course in anc Indian hist & culture Dir-in-charge— 5 Teachers

MUKARSHAL ARTS MAHAVIDYALAYA (F 1936) (tel. 680) BA, MA Principal—M P. Agrawal, MA LLB 57 Teachers

M H COLLEGE OF HOME SCIENCE FOR WOMEN (F 1954) (tel. 146). BA, BSc, BHSc. Principal—Mrs. Kusum Mehta, MA BT 53 Teachers

NEW EDUCATION SOCIETY LAW COLLEGE (F 1956) LLB Principal—R C Sanghi, MA LLB. 5 Teachers

PRANTHA SHREEHAN MAHAVIDYALAYA (F. 1889) (tel. 193) DipT, BEd, BEd(Basic), MA (Appl Psychol), MEd Principal—A Mishra, MA BSc LLB BT DLitt 53 Teachers

Sr ALOYSIUS' COLLEGE (F 1951) (tel. 718) BA, BSc Principal—N. A. Thomas, MA PhD. 22 Teachers

SHIVAN SUNDAR AGARWAL COLLEGE, Sihora (District Jabalpur) (F 1957). BSc, BA Principal—R S Nagam, MA BSc 12 Teachers

TILAK RAMCHITRA MAHAVIDYALAYA, Katni (District Jabalpur) (F. 1958). BA, BSc Principal—B P. Singh, MSc LLB 8 Teachers

## GENERAL INFORMATION

Although the Univ. of Jabalpur is among the younger of the univs of India, the city of Jabalpur is one of the oldest centres of univ. educn in India. The Radhakrishnan commission recognised the 'traditions of higher education' in Jabalpur and suggested that a unitary univ. might be developed there. This proposal was further examined by the cttee on the financing of educn of Madhya Pradesh, apptd. by the state govt, which recommended (in 1952) 'the immediate establishment of a univ of the federal type at Jabalpur'. The second 5-yr. plan for the former state of Madhya Pradesh included a scheme for the estab. of a univ at Jabalpur and an act setting up the univ. came into force in 1957.

Almost all the colls. affiliated to the univ. are in the city of Jabalpur, the univ.'s territorial jurisdiction being restricted to the revenue district of Jabalpur. It is intended to develop the univ. along federal lines and to encourage the max. intercoll. co-operation, especially in relation to postgrad. courses and the devel. of a corporate life for the univ. as a whole. The academic council of the univ. frames the annual teaching programmes of the colls. as a whole and the recognition of profs. and readers and the appt. of teachers of private constituent colls. is normally made on the recommendation of the selection cttee of the univ. Colls. which provide postgrad. courses in at least 2 subjs. and fulfil certain other

conditions are to be treated as 'constituent colls' (there are none at present) and will be more closely linked to the univ. than the affiliated colls.

**CONSTITUTION** There are 10 facs (see below) and 38 depts of study subordinate to them. In the constitution of the univ. bodies, the element of election has been kept to a minimum, while the functions of the court, academic council and exec. council are similar to those of the corresp. bodies in other Indian univs., membership of them will in most cases be ex officio according to seniority by rotation or by nomination. The registered grads, however, elect 20 members to the court.

**INCOME** (1961-62) Maintenance grant from state govt., Rs. 100,000; devel. grants from state govt. and univ. grants commission, Rs. 500,000 and Rs. 280,800 respectively; exam. and other fees, Rs. 460,820.

**FACULTIES AND DEANS** *Agric.*, Principal R. L. Gupta (entomol.), *arts*, Dr. H. N. Sinha (hist.); *comm.*, Principal B. S. Audhoka, *educn.*, Principal A. Misra, *engin.*, V. V. Sarvate (telecommun. engin.), *home sci.*, Principal (Mrs.) Kusum Mehta, *law*, Narendra Singh, *med.*, Dr. J. C. Sachdev; *sci.*, Dr. S. Ghosh (chem.), *vet. sci.*, Principal M. Y. Mangulkar.

**UNIVERSITY BUILDING** The univ. offices, previously housed in a rented bldg., have now been moved to new convention hall & admin. bldg. on 61-acre site nr. Mahakoshal Arts Mahavidyalaya. Construction of a non-resident student centre has commenced. Arts bldg. and univ. library started Oct. 1962.

**LIBRARY** 7340 vols.

**FOUR DEGREES** 3 via—BA, BSc, BHSc,

BCom, 4 via—BE home, BSc(Agr), BVSc, 41 yrs—MB BS.

**HIGHER DEGREES** 1 yr.—BED, BEd(Basic), MEd, 2 yrs—LLB, MA, MA(ApplPsychol), MSc, ME, MSc(Agr), MCom, MVSc; 2 yrs. from master's degree—PhD.

**HONORARY DEGREES** DLitt, LLD.

**DIPLOMAS** 2 yrs—nursery educn., teaching.

**ORIENTAL TITLES** 2 via—Pragna, Vaidard (1 yr. for BAs with Sansk.), 3 yrs—Shastri (1 yr. for MAs with Sansk.).

**STUDY LEAVE** Rules for teachers in univ. depts. are at present under consideration.

**FEES** Rs. 125 per session.

**ACADEMIC YEAR** (1962-63) July to April 3 terms. Term dates: July 2 to Oct. 13, Nov. 15 to Dec. 21, Jan. 7 to April 30.

**LANGUAGES OF INSTRUCTION** Hindi for BA, BA, BSc(HomeSci), BHSc, BCom, BSc, DPT, dipl. in nursery educn. Other courses in English.

**POSTGRADUATE AWARDS** Res. fellowships of Rs. 200 each, tenable for 2 yrs., awarded annually by univ. for study leading to PhD.

**NATIONAL CADET CORPS** Sc. div. of NCC authorized strength is 1293.

**EMPLOYMENT ADVISER** To help univ. grads. to secure suitable employment, a part-time employment adviser has been appointed.

**STUDENTS' UNION SOCIETY** A univ. students' union has been formed, which runs a reading-room and library. The pres. and sec. are elected by the students themselves.

**PUBLICATIONS** *Calendar*, prospectuses for exams., journals of academic socs.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	7996	—
Women	1603	—
Total	9599	—

Distribution by Faculties *Agric.*, 283, *arts*, 3017, *comm.*, 1390, *educn.*, 439, *engin.*, 1109;

*home sci.*, 319, *law*, 460; *med.*, 375, *sci.*, 1911, *vet. sci.*, 285. Total, 9599.

**DEGREES AWARDED** (1960-61) *Agric.* BSc (Agr), 26; MSc(Agr), 4. *Arts* BA, 296, MA, 127, MA(ApplPsychol), 11, PhD, 1. *Comm.* BCom, 108, MCom, 39. *Educn.* MEd, 5, BEd, 65; BT(Basic), 28. *Engn.* BE home, 105, ME, 4. *Home sci.* BEHSc, 43. *Law* LLB, 35. *Med.* MB BS, 18. *Sci.* BSc, 78; MSc, 30, PhD, 1. *Vet. sci.* BVSc, 30.

# JADAVPUR UNIVERSITY\*

Founded 1955

Postal Address : P.O. Jadavpur University, Calcutta 32, India

Cables and Telegrams : Jadavpur University, Calcutta

Telephone : 46-4771-6

PRESIDENT—Mrs. PADMAJA NAIDU

RECTOR—T. SEN, Dring Munich, MIE(India)

TREASURER—S. S. BAGCHI, BEE, MIE(India)

REGISTRAR—P. C. V. MALLIK, MA Camb

CHIEF LIBRARIAN—A. K. MUKHERJEE, MA DipLib Calc

## TEACHING STAFF

[†—Part-Time]

### UNIVERSITY COLLEGE OF ARTS

Principal—A. K. Datta, MA Calc. & Oxon

#### Bengali

Bose, G. C., MA Dacca	Prof., Hd. of Dept.
Datta, A. K., MA Dacca	Reader
Goswami, K. P., DPhil Calc	Reader
Goswami, M. M., DPhil Calc.	Lectr.
Chatterjee, S. K., MA Calc.	Lectr.
Ghosh, P. R., MA Calc.	Lectr.
Bhattacharyya, D. P., MA Calc.	Lectr.
Banerjee, Mrs. Nauparna, MA	Lectr.

Majumdar, A. K., MA	Lectr.
Datta, K. K., MA Calc	Lectr.
Datta, P. C., MA Calc.	Lectr.
Chatterjee, B., MA Calc.	Lectr.
Bose, Mrs. Manjula, MA Calc.	Lectr.
9 Res Assts	

#### English

Sen Gupta, S. C., PhD Calc	Prof., Hd. of Dept
Chatterjee, S., MA Calc., PhD Lond.	Reader
Williams, H. M., MA Wales	Reader
Mukherjee, D., MA Calc	Lectr.
Chatterjee, V., MA Calc	Lectr.
Sinha, B., MA BT Calc.	Lectr.
Guha Roy, Miss Gayatri, DPhil Calc.	Lectr.
Mukherjee, N. B., MA Calc.	Lectr.
Dey, Mrs. Pannati, MA Calc.	Lectr.
Mitra, S. N., MA Calc	Lectr.
Bhattacharya, Miss Jyotsna, MA Calc	Lectr.
De, R. P., MA Calc	Lectr.
Chakrabarti, J., MA Calc.	Lectr.

#### Comparative Literature

Bose, B., MA Dacca	Prof., Hd. of Dept
Guha, N., MA Calc.	(on leave) Reader
Das Gupta, A. R., MA Calc	Lectr.
Bhattacharyya, N. N., MA Calc. & Dacca	Lectr.
Fallon, F. P.	Lectr.
Dev, A. K., MA	Lectr.
McCutcheon, D. J., MA Camb	Lectr.
1 Res Asst.	

#### Economics

Chakraborty, P., MA Calc.	Prof., Hd. of Dept.
Banerjee, H., DSc(Econ) E.H. Rotterdam	Reader
Saravdhukary, P., MSc MA Calc	Reader
Ghosh, A., DPhil Calc	Reader
Banerjee, Mrs. Anita, BA Calc. & Camb.	(on leave) Lectr.
Das Gupta, A. K., BA Calc. & Camb	(on leave) Lectr.
Majumdar, K. K., MA Calc	Lectr.
Dasgupta, Mrs. Sipra, MA Calc.	(on leave) Lectr.

#### History

Gupta, P. C., MA Calc., PhD Lond.	Prof., Hd. of Dept.
Sarkar, J. N., MA Patna, PhD Calc.	Reader
Mukherjee, B. P., MA Calc	Reader
Bose, N. S., MA Calc., PhD Lond	Lectr.
Maiti, S. K., MA Calc., PhD Lond.	Lectr.
Sarkar, Miss Sipra, MA Calc.	Lectr.
Mukherjee, A., MA Calc.	Lectr.
Majumdar, B. K., DPhil Calc.	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Guha, R, MA Calc	(on leave) Lectr.	<b>Philosophy</b>	
Sanyal, S, MA <i>Pata</i>	† Lectr.	Bhattacharyya, G N., MA Calc.	
<b>International Relations and Political Science</b>		Banerjee, K. K., MA Calc	Prof, Hd of Dept.
Chakravarti, P C, MA <i>Dacca</i> , PhD <i>Lond</i>	Prof, Hd of Dept.	Bhattacharyya, S K, DPhil Calc	Lectr.
Das Gupta, J B, DSc <i>Aust</i> , MA Calc	Reader	Sen, P K, DPhil Calc	Lectr.
Rehfeld, W, DPhil <i>Frank</i>	† Prof	Mukherjee, M. L., MA Calc.	Lectr.
Mitra, Miss Basanti, MA Cal	Lectr	Banerjee, D, MA Calc.	Lectr
Roy, J K, MA Calc.	Lectr	Ganguly, A K, MA Calc	Lectr
Bose, T C., MA Calc	Lectr.	Ganguly, S N., MA Calc	(on leave) Lectr
Bhattacharyya, G, MA <i>Dacca</i>	Lectr	Sastri, P. P.	Lectr
Vasili, R K, PhD <i>Lond</i>	Lectr.	Sen Gupta, P K, MA Calc	Lectr
Bandyopadhyay, J., MA Calc	Lectr	Mukhopadhyay, P K, MA	Lectr.
Banerjee, A C., MA Calc.	† Lectr.	<b>Sanskrit</b>	
Bisnol, S S, MA LLB Calc	Lectr.	Mukherjee, R R, DPhil Calc.	
Mukherjee, N, MA Calc	† Lectr	Goswami, S N, DPhil Calc	Prof, Hd. of Dept.
Roy, Mra. Indrani, MA Calc., BA VB	† Lectr	Bhattacharyya, G. M., MA Calc	Reader
a Visiting Lectr.		Bhattacharyya, Mrs Sukaman, MA Calc	Lectr
<b>Language</b>		Chakravarti, M K., MA LLB Calc.	Lectr.
Rehfeld, W, DPhil <i>Frank</i>	† Prof.	Bose, N. K., MA	Lectr.
Bisnol, S S, MA LLB Calc.	Lectr.	Gupta, Miss Sanjukta, MA Calc.,	
Bhattacharyya, S, MA Calc.	† Lectr	PhD VB.	Lectr.
Goussera, Mme O. N	Lectr	Chatterjee, Miss Chinnmoyee, MA Calc	Lectr
		a Res Asst	

## UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGY

Principal—T. Sen, Dring *Munich*, MIE(India)

<b>Chemical Engineering</b>		<b>Civil Engineering</b>	
.....	Prof, Hd of Dept.	Ray, K, BSc Calc, BSc(Eng) <i>Lond</i> .	
Ghosh, B, MSc Calc, DSc <i>Carnegie Tech</i>	(on leave) Prof.	MICE	Prof, Hd of Dept
Dutta, D K, BSc Calc, BChE		Sen, P K, BE Calc., MSc(Eng) <i>Lond</i>	Prof
MS <i>Carnegie Tech</i>		Neogy, A. K, BE Calc	Prof.
	Prof., Actg. Hd. of Dept	Choudhury, N., BE Calc., MCE	
Chanda, B. C., DrRerNat <i>T.H.Aachen</i> ,		(on leave) Reader	
BChE	Reader	Chakrabarti, G B, BSc Calc., BEE	Reader
Bose, N K., MSc Calc., ScD Cal	Reader	Sarma, A K., BArch <i>Kharagpur</i>	Lectr
Roy Choudhury, K. C., BSc Calc.,		Sarkar, J., BE Calc.	Lectr
Dring <i>T.H.Karlsruhe</i> , BChE	Reader	Ghosh, B. N, BE Calc.	Lectr
Sen Gupta, K, MSc Calc	Lectr	Sinha, A K, BE Calc	(on leave) Lectr
Sinha, A P, CandTechSc <i>Marcon</i> ,		Das, S. C, BTech <i>Kharagpur</i>	Lectr
MChE	Lectr	Das Gupta, R K., BTech <i>Kharagpur</i>	Lectr
Ghosh, S R, BChE	(on leave) Lectr	Maymader, N K, BTech <i>Kharagpur</i>	Lectr
Banerjee, A K, BChE	Lectr.	Das, M, BE Calc	Lectr.
Sumari, B N, MS <i>Corn.</i> , MChE	Lectr	Sen Gupta, B K, BCE	Lectr
4 Visiting Lectrs., 8 Res Assts.		Bhattacharyya, U, MTech <i>Kharagpur</i> ,	
<b>Food Technology and Biochemical Engineering</b>		BCE	Lectr.
Bose, A. N, MSc Calc, PhD <i>M I T</i>		Ganguly, P K, BCE	Jr Lectr
(on leave) Prof		Bose, D K, BCE	Jr Lectr.
Ghosh, T. K, MChE DrScTech		5 Visiting Lectrs	
E.T.H.Zurich	Reader	<b>Electrical Engineering</b>	
Mukherjee, R N, DrRerNat <i>T.H.</i>		Guha, H. C., BSc <i>Edin.</i> , MIEE	Prof, Hd of Dept.
Switnam, MSc Calc, BChE	Reader	Choudhury, J. K., MSc Calc, MScTech	
Mukherjee, S K., BChE	Lectr.	<i>Edin.</i>	Prof.
Bose, S K., MTech BChE	Lectr	Deb, D. K., MS <i>Northwestern</i>	Prof.
3 Visiting Lectrs., 8 Res Assts.		Das Gupta, S. C., BEE	Prof.



**Chemistry, Organic**

Bhattacharyya, B. K., DSc Calc	Prof., Hd. of Dept
Dutta, J., DPhil Calc	Reader
Chatterjee, A., DPhil Calc	Reader
Banerjee, A., DPhil Calc	Reader
De, P. K., MSc Calc	Lectr
Datta, S., MSc Calc	Lectr
Das, A., MSc Calc	Lectr
Ganguly, S. K., MSc Calc	Lectr
5 Res Assts	

**Chemistry, Physical**

Mukherjee, S. N., DSc Calc	Prof., Hd. of Dept.
Das, M. N., DPhil Calc	Reader
Rohatgi, Miss Krishna K., MSc Calc	
DPhil Calc	Reader
Bhattacharyya, P. K., DPhil Calc	Lectr.
Pachhal, L., DPhil Calc	Lectr.
Bhattacharyya, G. C., MSc Calc	Lectr.
Roy, K. C., DPhil Calc	Lectr.
Chatterji, D. K., DPhil Calc	Lectr.
Kundu, K. K., MSc Calc	Lectr.
7 Res Assts	

**Geological Sciences**

Deb, S., FNI	Prof., Hd. of Dept.
Mukherjee, B. C., MSc Calc	Reader
Dutta, P. C., MSc Calc	Reader
Roy, S., DPhil Calc	Reader
Hose, P. N., MSc Calc	(on leave) Lectr
Chakraborty, K. L., MSc Calc, PhD	(on leave) Lectr.
Chakraborty, P. S., MSc Calc	Lectr
Mitra, K. C., MSc Lond	Lectr
Sarkar, S. C., MS	Lectr
Ghosh, S. K., DPhil Calc	Lectr
Bhattacharyya, A. K., MSc	Lectr
Basu, N. K., MSc Calc	Lectr
Mitra, S. N., MSc	Lectr
Chanda, S. K., MS	Lectr
Sanyal, Miss Anjali, MA BT Calc.	Lectr.
Bhattacharyya, A. K., MSc	Lectr
Bhattacharyya, P. K., MSc	Lectr
Ganguly, A., MSc	Lectr.
4 Visiting Lectrs., 5 Res Assts	

**Mathematics**

Sen, B. B., DSc Calc., FNI	Prof., Hd. of Dept.
Mukherjee, D. N., MSc Calc.	Reader
Bhattacharyya, R., MSc Calc.	Reader

Bhattacharyya, R. N., DPhil Calc	Reader
Dutta, M., DPhil Calc	Reader
Chatterjee, B. B., DPhil Calc	Reader
Mitra, M., MSc Calc, PhD	Reader
Mitra, A. K., MSc Calc, PhD	Lectr
Khanrao, S. R., MSc Calc, PhD	Lectr
Bhattacharyya, R. K., MSc Calc	

(on leave) Lectr

Mitra, M. K., MSc Calc.	Lectr.
Ghosh, K. M., MSc Calc.	Lectr
Bagchi, K. C., MSc Calc.	Lectr
Sen, A. R., MSc Calc	Lectr.
Das, S. P., MSc Calc	Lectr
Nengi, P., MSc Calc.	Lectr
Chakraverty, B., MSc Calc.	Lectr.
Das, B. R., MSc	Lectr
Majumdar, S. R., MSc Calc.	Lectr
Sinha, D. K., MSc Calc	Lectr
Giri, R. M., MSc	Lectr
Sarkar, S. K., MSc	Lectr
2 Res Assts	

**Physics**

Chatterjee, S. D., DSc Calc., FNI	Prof., Hd. of Dept
Sen, H. P., MSc Calc.	Reader
Ganguly, S. C., DPhil Calc.	Reader
Sen, S. N., DPhil Calc	Reader
Roy, T. C., DPhil Calc.	Reader
Bhattacharyya, B., MSc Ban., PhD Camb.	
Sutradhar, N., MSc Calc	Reader
Das, N. C., MSc Calc	Lectr
Surali, D., MSc Calc.	Lectr.
Banerjee, A. N., MSc Dacca	Lectr
Coondoo, L. K., MSc Calc	Lectr
Mukherjee, S. K., MSc Calc.	Lectr.
Khan, D. C., MSc Calc	(on leave) Lectr.
Sanyal, S. B., DPhil Calc	Lectr
Dutta, S. P., MSc Calc	Lectr.
Bandyopadhyay, K. G., BEE	Lectr.
Gupta, N. N., MSc Calc	Lectr.
Sen, D., MSc Calc	Lectr.
Syam, P., MSc Calc.	Lectr.
Ghosh, S. K., DPhil Calc.	Lectr.
Ganguly, S. R., MSc Calc	Lectr.
Roy, H. P., MSc Calc	Lectr.
Choudhuri, A., MSc Calc, PhD Kharagpur	
Ghosh, N. C., MSc Calc	Lectr
Talapatra, S. K., MSc Dacca	Lectr
7 Res Assts.	

**ADMINISTRATIVE AND OTHER STAFF**

Provost - D. K. Bose, MA Dacca Librarian  
N. C. Maitra, BSc Alld, MA DipLib Calc Med.  
Officer - T. J. Gupta, MB DTM Calc Hostel  
Supts - K. C. Chatterjee, MSME Calcutta,  
BME; J. C. Das, DrIng T H Stuttgart, BME;  
J. C. Sarkar, BME, Mrs. Manishi Roy, Dir.  
of Youth Welfare H Biswas, BSc Dujou

DepSocSci Calc. Phys Instrs - P. C. Banerjee,  
J. Pal. Controller of Exams. - D. N. Chakraborty, BEE Dep Controller D. N. Mukherjee,  
MA, Patna. Ass. Registrar - S. N. Khan, BA  
Calc. Supt. of Admission - S. K. Chakraborty,  
BEE Univ. Engineer - A. K. Sen Gupta, BSc  
BE Calc

## GENERAL INFORMATION

The National Council of Education was started in 1906 to impart educn. 'on national lines and exclusively under national control, not in opposition to, but standing apart from, the existing system of primary, secondary and collegiate education, attaching special importance to a knowledge of the country, its literature, history and philosophy, and designed to incorporate with the best oriental ideals of life and thought the best assimilable ideals of the west, and inspire students with the genuine love for and desire to serve the country'. The council at first maintained both arts and sci. and technical depts., but finding that public demand for technical educn. was more insistent, the council devoted for the last 30 yrs. almost the whole of its resources to technical educn. through its coll. of engin. and technol.

In view of the fact that the coll. of engin. and technol. had been virtually functioning as a univ., and in order that the degrees of the National Council of Educn. should receive statutory recognition, the govt. of West Bengal with the concurrence of the govt. of India enacted the necessary legislation for the establishment of a univ. at Jadavpur, and so Jadavpur Univ. came into being on Dec. 24, 1955, by West Bengal Act XXXIII of 1955. The territorial jurisdiction of the univ. extends over a radius of 2 miles from the univ. office.

The Jadavpur Univ. Act provides that 'any degree conferred by the National Council at any time between the 1st day of Jan. 1944 and the commencement of this act shall, for all purposes, be deemed to be a degree corresponding to such degree of the univ. as may be declared by the state govt.'

**CONSTITUTION.** On the expiry of the 1st 4-yr. period after its incorporation all authority in the univ. has come to rest in a body composed of the following members: pres., rector, treasurer, dean of facs, hds. of institutions under univ., pres. of Alumni assocn., chairman of Institution of Engineers, mayor of Calcutta corporation (all *ex officio*), 2 members elected by teachers other than profs., 2 elected by profs., 2 registered grade, 8 persons elected by National Council of Educn., 4 nominated by legal reps. of founder donors and 5 representing the state and union govts. The pres. is the titular hd. of the univ. and the rector is the principal executive officer. Other principal officers are the treasurer (an honorary officer) and the registrar. The following bodies have been constituted to advise the univ. on different matters: academic council, administrative council, finance council and development council.

The univ. has no affiliated colls. but the coll. of engin. and technol., the coll. of arts and the coll. of sci. are constituent colls. and function as teaching depts. of the univ.

**INCOME (1961-62).** Total income: Rs. 5,672,712 (govt. grants, 83.2 per cent; fees, 4.3 per cent, other sources, 12.5 per cent)

**LIBRARY** 105,200 vols

**FACULTIES AND DEANS** Arts, Prof. P. C. Chakravarti (internat. solms. & pol. sci.); engin., Prof. H. C. Guha (electr. engin.); sci., Prof. B. B. Sen (maths.)

**ADMISSION** Students who have passed the highest sec. exam. of any statutory bd. exam. or pre-univ. exam. or any exam. recognized as equivalent, with sci. or technical subjects, are eligible for admission to 1st yr. of 5-yr. integrated course in engin. and those with sci. or humanities, to 1st yr. of BSc or BA course respectively. Those who have passed the inter sci. or equivalent exam. of any Indian univ. with phys., chem. and maths. are eligible for admission to 2nd yr. and those who have passed the licentiate exam. of the State Council of Engin. and Technical Educn. or such other statutory bodies as the dipl. course exam. of the Natnl. Council of Educn., Bengal, are eligible for admission to 3rd yr. of the 5-yr. integrated course. Students who hold dipls. in engin. and are in service are eligible for admission to pt.-time degree courses in civil, electr. and mech. engin. For postgrad. course in food technol. a student who holds the bachelor's degree in chem. engin. (with food technol.) or equivalent degree is eligible for admission.

**FIRST DEGREES.** 3 yrs. after class XI sch. final or pre-univ. course exam.—BA honrs., BSc honrs., 4 yrs. after ISC or equivalent or 5 yrs. after class XI sch. final or pre-univ. course exam.—BME, BEE, BT&E, BCE, BCE. There is no pass BA or pass BSc.

The exams. of all statutory Indian univs. are recognized as equivalent to the corresponding exams. of the univ.

**HIGHER DEGREES.** 1 yr. after corresponding bachelor's degree—MME, MChE, MCE, MEE, MT&E and MTech. 2 yrs. after corresponding bachelor's degree—MA, MSc in all subjs. available in the univ. DSc, PhD awarded on submission of thesis on res. in sci. subject, after at least 2 yrs' work under supervisor recognized by the univ.

**HONORARY DEGREES.** DSc, DLit, DEngg.

**STUDY LEAVE** is granted to staff members for higher study or res. approved by the univ.

**FEES** Annual tuition fees: pre-univ. course, Rs. 144; undergrad. course, Rs. 180; postgrad. course, Rs. 240.

**ACADEMIC YEAR.** One term. Pre-univ. & undergrad. courses: July 1-June 30; postgrad. courses: Aug 1-July 31.

**LANGUAGE OF INSTRUCTION** and examination is English.

**GRADUATES' ASSOCIATION.** Alumni assocn. situated within campus.

**STUDENT RESIDENCE** For men, Jadavpur Univ. hostel, Calcutta, 32 (tel. 46-4446), 830 students. For women, Jadavpur Univ. women's hostel, Calcutta, 32 (tel. 46-4771), 40 students. Fees, Rs. 120-Rs. 144 plus admission fee of Rs. 5.

**STAFF RESIDENCES** Univ. provides limited residential accomm. on campus for staff.

**NATIONAL CADET CORPS.** Naval, air, signals, engin. and title units of N.C.C.

**STUDENT HEALTH SERVICE.** No provision at present except for annual med. exam. A students' health centre is being establd. where periodical check-ups will be arranged.

**PUBLICATIONS** *Calendar, Prospective*, annually.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed: postgrad. sci. bldg., mech. engin. bldg., staff quarters.

**RETIREMENTS** Prof. S. K. Chakravarti (mech. engin.); S. N. Ray (Engl.), N. L. Ganguly (Engl.).

**RESIGNATIONS** T. B. Adhikari (electr. engin.), to join Damodar valley project, N. B. Sen Gupta (mech. engin.), apptd. lect., Birla Inst. of Technol.; Dr. K. Sen (chem.), to join industry, Dr. A. K. Dutta (econ.), apptd. reader, Delhi, R. K. Saha (econ.), to Mich. for higher studies, R. N. Mukherjee (chem.), Dr. Chakraborty (phys.), apptd. res. scholar, Calc., Dr. G. C. Dey (electr. engin.), apptd. asst. prof., Indian Inst. of Technol., Bombay, S. K. Chakraborty (maths.), apptd. reader, Burdwan Univ.

**HONORARY DEGREES** *D.Litt.*—Sir John Sargent, formerly educul. adviser to govt. of India.

## Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2503	286
Women	441	—
Total	2944	286

**Distribution by Faculties** *Arts*, 651; *engin.*, 2107, sci., 472. Total 3230.

*Included in the figures above are*—

Pre-University students, 111.

Postgraduate students, 614.

New admissions, 1149.

Students from other countries, 23 (Countries from which largest numbers came: Nepal, 15; Thailand, 3).

**DEGREES AWARDED (1960-61).** *Arts*: BA hons., 36, MA, 117. *Engin.*: BChE, 47; BCE, 85, BEE, 74, BME, 91, BTelE, 25; MChE, 3, MCE, 2; MTech, 2. *Sci.*: BSc hons., 45, MSc, 37. *PhD* (all fields), 7. *Total number of first degrees awarded*, 403.



# UNIVERSITY OF JAMMU AND KASHMIR\*

Founded 1948

Postal Address : Srinagar, Kashmir, India

Cables and Telegrams : University, Srinagar

Telephone : Srinagar 230

CHANCELLOR—KARAN SINGH, MA PhD

PRO-CHANCELLOR—B G MOHAMMAD

VICE-CHANCELLOR—Sardar K M PANIKKAR, MA Oxon, DLitt LL.D

TREASURER—Sardar M A K LODI, BA

REGISTRAR—A AZIZ, MA DipEd Lond

## TEACHING STAFF

<b>Botany</b>		Kaul, M, MA	Lectr
	Prof	Khan Ayub, MA	Lectr
Khosha, T N., MSc PhD	Reader	Gigoo, D. N., MA	Lectr
Koul, V., MSc PhD	Lectr.		
Dhar, G L., MSc	Lectr	<b>Mathematics</b>	
<b>Economics</b>		Puri, M R., MSc DipEdState Leeds, MA	Prof
....	Prof	Mohammad, J., BSc Leeds, MA	Reader
Bhan, J. N., MA PhD	Reader	Mohammad, Q G., MA	Lectr
Singh, I., BA Camb.	Reader	..	Lectr
Kotwal, O P., MA	Lectr.	<b>Physics</b>	
Sharma, B. D., BSc MA	Lectr.	Kalathil, G K., MSc PhD	Prof.
<b>English</b>		..	Reader
Pandit, S L., MA	Reader	Makhdoom, BA MSc	Lectr
Apurba, S., MA PhD	Reader	..	Lectr
Went, M S., MA PhD	Reader	<b>Urdu</b>	
Pandit, M. L., MA	Lectr	..	Prof.
<b>Geology</b>		..	Reader
Wakhlan, S. N., MSc PhD, FGS	Prof	Shakil-ur-Rehman, MA DLitt	Lectr
..	Reader	Hamidi, H U., MA	Lectr
Shah, S K., MSc	Lectr.	Kaul, A U., MA BEd HPU	Lectr
Bhatia, T R., MSc	Lectr.	<b>Zoology</b>	
Sharma, T. R., MSc	Lectr.	Dass, S. M., DSc	Prof
<b>Hindi</b>		Fatehat, D N., MSc Algh & Lond.	Reader
..	Prof	Mahotra, Y R., MSc	Lectr
..	Reader	Dutta, P. L., MSc	Lectr

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : M. A Chisti, BA ; H I., Chowdhari, BA LLB (Exams.). Asst Registrars : G. M Mu, BA (Academic), J. N. Kaul, BA (Admin.), Ram Sarup, BA LLB (Jammu)	Accts. Officer : J. L Kaul, BA	Dep. Librarian : M H. Razvi, MA DipLibSc
	Dir of Phys. Educn. : G Mohammad, BA DPEd	

\* Member of the Association of Universities of the British Commonwealth

## AFFILIATED COLLEGES

[FA, BA, etc., after the name of a college means that courses are provided there for Intermediate Arts, BA, etc.]

ANANTNAG, Govt College, Kashmir BA, BSc Principal—Sulim-ul-Din, MA 18 Teachers

BARAMULLA, St Joseph's College, Kashmir FA, FSc, BA, Principal—Rev Fr A Byvoot 15 Teachers

BRADARW'AH, Govt College, Jammu FA, FSc, BA, Principal—R L Bhasi, MA 17 Teachers

JAMMU, Govt College for Women (tel. 5504) FA, FSc, BA, Principal—Kashina Mohan, MA PhD 23 Teachers

JAMMU, Govt Gandhi Memorial Arts College (tel. 314A) FA, BA, Principal—Hassan Shah, MA 19 Teachers

JAMMU, Govt Gandhi Memorial Science College (tel. 314) FSc, BSc Principal—Ghanashyam, MSc 60 Teachers

JAMMU, Sri Pratap Memorial Rajput College of Commerce (tel. 5666) ICom, BCom Principal—G P Singh, MCom 8 Teachers

JAMMU, Teachers' Training College BEd Principal—S Mohinder Singh, MA(Ed) 13 Teachers

KATHUA, Govt College, Jammu BA, BSc Principal—Ishtar Sharma, MA 10 Teachers

POONCH, Govt College, Jammu FA, FSc, BA Principal—P N Pushp, MA 16 Teachers

R S PORA, Govt Agriculture College, Jammu BSc(Agric) Principal—K G Bhandari, MSc MSc(Agric) 10 Teachers

SOPHIE, Govt Agriculture College, Kashmir BSc(Agric) Principal—S Inder Singh, BSc Wales 9 Teachers

SOPHIE, Govt College, Kashmir (tel. 12) FA, FSc, BA, Principal—G Mohammad, MA 16 Teachers

SRINAGAR, Anwar Singh College, Kashmir (tel. 302) FA, FSc, BA, BSc, BA honours Principal—M Ahmed, MA 51 Teachers

SRINAGAR, Gandhi Memorial College, Kashmir (tel. 607) FA, FSc, BA, BEd, Principal—G N Matton, MA MOL 25 Teachers

SRINAGAR, Govt Medical College, Kashmir MB BS Principal—G V S Murthi, MD 47 Teachers

SRINAGAR, Govt Women's College, Kashmir (tel. 358) FA, FSc, BA, BSc Principal—Mrs Mohmuda Ahmed Ali Shah, MA 31 Teachers

SRINAGAR, Govt Women's College, Nawakadal, Kashmir BA, BSc Principal—Mrs S A Hassan, MA 9 Teachers

SRINAGAR, Islamia College, Kashmir ICom, BCom, BSc Principal—S N Thosani 11 Teachers

SRINAGAR, Regional Engineering College, Nuseen Bugh, Kashmir BE Principal—Z U Ahmed, DIC, PhD, MIEE 23 Teachers

SRINAGAR, Sri Pratap College, Kashmir (tel. 228) FA, FSc, BA, BSc, BA honours Principal—A Aziz 37 Teachers

SRINAGAR, Teachers' Training College, Kashmir (tel. 386) BEd Principal—Mrs S Z Ahmed, MA 16 Teachers

UDHAMPUR, Govt College, Jammu BA, BSc Principal—T Ram, MSc 13 Teachers

## GENERAL INFORMATION

The Univ. of Jammu and Kashmir was established in Nov. 1948. It is a teaching and examining university. Its jurisdiction extends over Jammu and Kashmir States.

CONSTITUTION Senate, syndicate, academic body. The senate is the supreme governing body; the syndicate is the exec. body.

INCOME (1961-62). Total—Rs 1,628,479 (exam fees, Rs 719,985; other fees, Rs 90,008; other receipts, Rs 68,486; state grants, Rs 300,000; UGC grant, Rs 450,000).

FACULTIES AND DEANS Agric., Principal S Inder Singh, arts and oriental learning, comm., Principal G. P. Singh, educn., Principal (Mrs) S Z Ahmed, engn., Principal Z U Ahmed, med., Principal G V S Murthi; oriental learning, Principal J. N. Bhan (econ.).

LIBRARIES Univ. lib., 29,235 vols. Labs of affiliated colls., 114,474 vols.

OBSERVATORY A high elevation observatory for res. on cosmic rays has been established at Gulmarg, Kashmir, in co-operation with Aligarh Muslim Univ.

ADMISSION The min. qualif. necessary for admission to the univ. is the passing of the matric exam or an exam recog. as equivalent.

The 3-yr. degree course has been started as from the academic year 1961-62. The qualif. necessary for entry to the course is the passing of the higher sec. course exam or the pre-univ. exam.

FIRST DEGREE 4 yrs after matric—BA, BSc, BScAgric, BCom, 5 yrs.—BE.

HIGHER DEGREE 1 yr.—BEd 2 yrs.—MA in econ., Engl., Hindi, maths, Urdu, MSc in bot., geol., phys., zool.

The univ. postgrad. depts. are located as follows: bot., Engl., Hindi, maths, phys., Urdu and zool., at Srinagar; econ. and geol., at Jammu.

**THE UNIV** does not award any HONORARY DEGREES

**CERTIFICATES** Proficiency, high proficiency and hon. in Hindi, Urdu, Punjabi, Arabic, Sansk and Persian, each 1 yr

**PRIVATE CANDIDATES** Men, in professions such as teaching and librarianship, and women are allowed to appear as private candidates under certain conditions, provided they come from the state of Jammu and Kashmir.

**STUDY LEAVE** There is no regular practice regarding study leave for members of staff

**FEES.** No tuition fees are charged in univ. postgrad depts or in govt affiliated colls (arts, educn, sci)

**ACADEMIC YEAR** Terms in univ. depts Srinagar: Sept. 1-Dec. 20; March 1-May 20; June 1-Aug 10 Jammu: Sept 21-Dec 20; Jan 5-March 31, April 11-July 5

The LANGUAGE OF INSTRUCTION is Engl, except in classical and mod Indian lang classes, where the medium of instructn is the lang concerned, or an allied lang

**PUBLICATIONS** *Handbook* (pubd at irregular intervals); *Ann. Review* (2 issues p a).

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>
Men	4560	—
Women	1506	—
Total	6566	—

Distribution by Faculties. *Arts*, 2774, *comm*; 95, *educn*, 236, *med*, 59, *oriental learning*, 881, *sci*, 2521. Total. 6566

*Included in the figures above are —*

Intermediate students, 4105

Postgraduate students, 262

Students from other countries, nil

**DEGREES AWARDED (1960-61)** BA and BSc, 304, MA, 7; BEd, 78, BCom, 3

**CERTIFICATES AWARDED (1960-61).** *Oriental classical langs*, 73, *mod Indian langs*, 208

# KARNATAK UNIVERSITY\*

Founded 1949; incorporated 1950

Postal Address: Chhota-Mahabaleshwari, Dharwar, Mysore State, South India

Cables and Telegrams: Unkannatak

Telephone: Dharwar 04

CHANCELLOR—H E, THE GOVERNOR OF MYSORE (ex officio)

VICE-CHANCELLOR—D. C. PAVATE, MA Camb

REGISTRAR—S. S. WODEYAR, MA LLB Bow

DEPUTY REGISTRAR—S. B. SHAFETI, MA Bow.

LIBRARIAN—K. S. DESHPANDE, Dip Lib Bow, MA

## UNIVERSITY DEPARTMENTS

(\*—Hd of Dept)

Botany		Geography	
Channaveeriah, M S, MSc Mys, PhD *Reader		Basu, S C., MA DPhil Cal Rameshchandra, R., MA Mad	*Reader Lectr
Panchaksharappa, M G, MSc Mys, PhD Delh	Lectr	Bhaskarima Reddy, N., MSc Bow, BED S Fawar	Lectr
Jorapur, S M, MSc 2 Demis	Lectr		
Chemistry, Inorganic and Physical		Geology	
Chandrasekharan, M. S, MSc PhD *Reader		Sadasubrah, M S, DIC, MSc PhD Lond, FGS	*Prof Lectr
Jayadevappa, E S, MSc PhD Reader		Nagana, C, DSc Prague, MSc (on leave)	Lectr
Math, K. S, MSc PhD Lectr.		Gokhale, N. W, MSc	Lectr
Setta Ram Murthy, A., MSc Lectr.		Somasekhar, B, MSc Mys	Lectr
Gopalan, M. R., MSc PhD Mad 1 Demr, 3 Lab Asst	Lectr		
Chemistry, Organic		History	
Siddappa, S., DIC, MSc PhD Lond. *Prof		Saleware, B A, MA PhD Lond, DPhil Gierse	*Prof.
Rajagopalan, S, DSc, FRIC Reader		Dixit, G S, MA	Reader
Badiger, V V, MSc PhD Lectr.		Desai, P. B., MA	Reader
Dandegamkar, S. H, MSc PhD 1 Store-keeper, 1 Lab. Asst	Lectr.	Kulkarni, B S, MA	Reader
Economics		Kannada Language and Literature	
Nanjundappa, D M., MA PhD Mys *Reader		Hemach, R. C., MA Bow, PhD	*Prof.
Mansikka, S. S, MA Reader		Sunkapa, M S, MA Bow, PhD	Reader
Tagadi, C B, BA Bow, BSc(Econ) Lond. Lectr		Kulkarni, B S, MA	Lectr
Veeranna, G M., MA Mys Lectr.		Vrahabhondaravenu, S. M, MA Mys.	Lectr
Patil, T. S, MA Bow. Lectr.			
Gourangano, U L., MA And. 1 Res. Asst	Lectr	Mathematics	
		Seenivas Iyengar, C. N, DSc Cal	*Prof
		Singh, S K, MA Alid, PhD Alh	Reader
		Shrivakumar, P N, MSc Bow & Lond	Lectr
		Gopalsakshma, H S, MSc Mys 1 Res Asst	Lectr
English		Philosophy	
Meneste, A., MA Bow. *Prof.		Shah, K J., MA Camb	*Reader
Nair, M. K., MA PhD Reader		Mullatti, L C, MA	Lectr.
Ragashcharam, T. R., MA Reader			

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<b>Physics</b>		Mahapatra, L. K., MA Calc., PhD Harburg	Lectr.
Tiwde, N. R., MSc Bow, PhD Lond.		Manubhaddavay, H. M., MA Mys. & Drift	Lectr.
FIP, FNI	*Prof.		
Suryanarayan Rao, K., DSc And	Reader	<b>Sociology</b>	
Suamy, N. V. V. J., MSc Bow,		Chandrasekharan, K., MA Mys.,	*Reader
PhD Florida	Reader	DPhil Pina	Lectr.
Saradatta, M. J., MSc PhD	Lectr.	Chelku, D. A., MA	
Ganganna, H. V., MSc Mys.	Lectr.		
Kulkarni, R. J., MSc Bow & Kann.	Lectr.	<b>Statistics</b>	
3 Lab. Assts. 2 Demos		Jamburathan, M. V., MA PhD Mys.	*Prof.
		Bhat, B. R., MA Math. & Kann.	Lectr.
<b>Political Science</b>	*Reader	PhD Calif	Lectr.
Halappa, G. S., MA Mys. & Cal	Reader	Kabe, D. G., MSc Bow & Kann.	Lectr.
Venkmath, K. V., MA Mys., MPA Sys	Lectr.	Kulkarni, S. R., MA	Lectr.
Raghavendra Rao, K., MA	Lectr.	Kulkarni, N. V., MSc	Lectr.
Rajasekhinash, A. M., MA Mys		Bagoli, J. N., MA	Lectr.
		Shivamurthy, MA Mys	Lectr.
<b>Sanskrit</b>		1 Res. Asst. 1 Demo	
Krishnamurthy, K., MA Mys., PhD Bom.	*Reader	<b>Zoology</b>	
Mallodevara, H. P., MA Bow	Lectr.	Joseph, K. J., MSc Agrs., PhD	*Reader
		Rameswamy, K. R., MSc Mys., PhD Nag	Lectr.
<b>Social Anthropology</b>		Nadkarni, V. R., MSc PhD Bow.	Lectr.
Ishwaran, K., MA PhD DLitt. Ley., BLitt	*Reader	1 Demo.	
Owen, MSS Inst. for Soc. Studies (The			
Hagur)			

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Admin.): S. C. Bakkanavar,  
BA LLB. Asst. Registrar (Exams): Shivanish,  
MA. Asst. Registrar (Accts.): R. A. Panduranga,  
BCom. Office Supt. (Admin.): B. G. Suryan-  
navar. Du., Extension Services: C. S. Kannevi,  
MA. Asst. Dir.: S. B. Nank, MA. Sec., Bd. of  
Sports, Students' Welfare: S. M. Desai, BA.  
Asst. Sec.: S. N. Divit, BA.

## CONSTITUENT COLLEGES

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

**DHARWAD, Karnatak Arts College (1917)** (tel.: 18). BA, MA. Principal—A. Morwata, MA Bom. Hds. of Depts: ECON.—B. B. Kannevi, MA BCom LLB, ENGL.—S. B. Shintri, MA; PHENCS.—K. J. Mahale, MA LLB Bom., PhD DLitt Paris; HINDI—R. K. Mudaliar, MA; HIST.—C. Veerabashanna, MA Mys., KANNAD—B. C. Javali, MA; MARATHI—D. N. Awalkar, MA Bom., MATHS.—K. G. Nank, MSc; MUSIC—S. B. Hangal, BA Bom., PhD, PUSIAN AND CHOU—V. Balakrishna, MA, PHILCS.—T. G. Kalghatgi, MA, POL.—M. S. Patel, MA Bow, SANSK. AND PRANIT—B. R. Modak, MA PhD Poona; SOC. ANTHROPOL.—L. S. Ainsapur, MA; SOCIOL.—Sodhzeia B. Gunjur, MA; STAT.—R. S. Munavalli, MA.

**DHARWAD, Karnatak Science College (1934)** (tel.: 176). BSc, MSc (in bot. and zool). Principal—G. S. Patamashivayya, MSc Calc. Hds. of Depts.: BOT.—H. R. Lachar, MSc Bom. CHEM.—R. P. Dodwadnath, MSc, AGRO.—M. S. Honrao, MSc, ZOOL.—C. Pannasivaiash, MSc Mys.; PHYS.—M. S. Katti, MSc Bom., ZOOL.—J. C. Uttangi, MSc Bom., PhD.

## AFFILIATED COLLEGES

**BAGALKOT, Basaveshwar College (1944)** (tel. 40). BA, BSc. Principal & Hd., Dept. of SANSK. AND PRANIT—S. C. Neadumath, MA PhD Lond. Hds. of Depts: BOT.—M. S. Rao, MSc, CHEM.—Prof. B. H. Yelburgi, MSc; ECON.—Prof. S. N. C. Rao, MA, ENGL.—Prof. L. G. Haremath, MA BT Bom.; HINDI—G. M. Unwatsahastri, MA, HIST.—K. V. Subhasayn, MA,

KANNADA—, MATHE—Prof R Gopalan, MA, PHLOS—S B. Mathad, MA, PHYS—Prof A R. Chandrasekhara Rao, MSc

BELGAUM, K.L. Society's College of Commerce (1954) (tel. : 381) BCom Principal—D S Kurtaoti, MA Bcom

BELGAUM, Lingayat College (1933) (tel. : 27) BA, MA, TD Principal & Hd of Dept of ENGL.—B Rudrapur, MA BT Hds of Depts. HINDI—B L Kotture, MA PhD LLB, KANNADA—Prof S. S. Shomegumath, MA; MARATHI—Prof. K B Nikkumbh, MA, PERSIAN AND URDU—M A. Topankatti, MA, PHLOS AND LOGIC—Prof L V Rajgopal, PhD, PRAKRIT—Prof R V. Dixit, MA, SANSK—Prof S V. Devot, MA, TEACHING—Prof M. S. Uppin, BA MED

BELGAUM, R.L. Law College (1930) (tel. : 381). LLB, LL.M. Principal—V. R. Bhut, MA LL.M.

BELGAUM, R.L. Science Institute (1958) (tel. : 435) BSc Principal & Hd., Dept of CHEM—V. V. Jatti, MSc Hds of Depts BIOL.—P S Chikannanah, MSc PhD Mys; ENGL.—V D Kulkarni, MA, HINDI—D. D. Deso, MA Bcom & Poona, MARATHI—Miss Vinaya R. Dhupeshwarkar, MA, MATHE—Prof B Chandrasekhara, MSc Mys, KANNADA—V G Kulkarni, MA, PHYS—N C. Channamath, MSc; SOC SCI—R Jayaraman, MA

BELGAUM, R.P.D. College (1945) (tel. : 79) BA, BSc Principal & Hd., Dept of SOON—B T. Bhalekar, MA Hd of Depts BIOL.—U K. Kulkarni, MSc, CHEM—K D Phandis, MSc, ENGL.—M. S. Iyengar, MA; FRENCH—V V. Vaidya, MA, GEOG—V R Phandis, MSc; HINDI—M. R. Mutalik, MA, KANNADA—K G Kundangar, MA; MARATHI—A. K. Yalgi, MA, MATHE—K G Gadkar, MSc; PHLOS—M. V. Phadke, MA; PHYS—A. S. Deshpande, MSc, SANSK AND PRAKRIT—D. R. Page, MA

BELGAUM, S.T. College (1939) (tel. : 197) BED, MED Principal—C. S. Bennur, BA MED DPEd

BELGAUM, B.V. Basomaiadi College (1966) Pre-Univ (arts and soc) Principal—B T. Sannur, MA.

BIJAPUR, College of Commerce (1961) Pre-Univ (comm.) Principal—P K. Hekkaladaddi, MSc

BIJAPUR, Vijay College (1945) (tel. : 68) BA, BSc, Principal & Hd., Dept. of ENGL.—B S. Gausman, MA BT Bcom Hds of Depts. SOC.—S. S. Patil, MSc, CHEM.—P S. Shastri, MSc, ECON.—C. S. Krishnagowdy, MA, HINDI AND MARATHI—G M Kulkarni, MA Bcom, HIST.—S H Rao, MA; KANNADA—H T. Sannur, MA BT PhD Bcom; MATHE—P K. Hekkaladaddi, MSc; PERSIAN AND URDU—M. A. Bhandari, MA, PHLOS.—T. Reuben, MA, PHYS.—I. R. Patil, MSc, PRAKRIT—; SANSK—V H. Barikatti, MA, SOCIO.—C. V. Mulagund, MA; ZOOL.—Mrs Sarojini T. Reuben, MSc.

BIJAPUR, College of Agriculture (1947) (tel. : 71) MSc(Agric) Principal—Prof S W. Menzies, DIC, MSc PhD Lond, DipAgric R'dg.

BIJAPUR, Janata Shiksha Samiti's Law College (1955) (tel. : 68) LLB Principal—N R Kulkarni, MA LLB Prof. K R. Apte, BA LLB

BIJAPUR, Janata Shiksha Samiti's Science and Banashankari Arts College (1944) (tel. : 63) BA, BSc Principal & Hd., Dept of KANNADA—R Y. Dharwadkar, MA Hds. of Depts. BIOL.—G S Kulkarni, MSc, CHEM—V G Kulkarni, MSc PhD, ECON.—E D. Kale, MA, ENGL.—G A Kulkarni, MA, GEOG—H D. Lela, MA BT, HINDI—M A. Badi, MA, LOGIC AND PHLOS.—R S. Murthy, MA, MATHE—R. G. Kulkarni, MSc; PERSIAN AND URDU—, PHYS—K S. Kulkarni, MSc, SANSK AND ASHOKAGADH—H R. Nayare, MA.

GADAG, Institute of Pre-University Course (1957) (tel. : 16) Pre-Univ Supt—D R. Joshi, MA TD

GADAG, K.L.E. Society's Jagadgurur Tattvasaraya College (1958) (tel. : 15) BA, BSc. Principal—M S. Halbur, MA

GULBARGA, Bagamwadi College (1938) (tel. : 172) BE Principal—K B. Krishna Rao, BA BE, MIE(India)

GULBARGA, Govt. Arts & Science College (1932) (tel. : 64) BA, BSc Principal—D. J. Daves, MSc PhD

GULBARGA, Govt. BED College (1935) (tel. : 1128) BED Principal—B K. Surebhar. BA BT MED

GULBARGA, Shri. Basaveshwara College (1958) (tel. : 46). BA, BSc. Principal—S T. Kallapur, MA.

GULBARGA, S.S.L. Law College (1960). LLB Principal—B. R. Deshpande, BA LLB.

HUBLI, R.V.R. College of Engineering and Technology (1948) (tel. : Hubli 76) BE (civil, elect., mech) Principal & Hd., Dept of ELCTR ENGIN.—A S. Menon, BSc(Bagg) Bcom, MIE(India) Hds of Depts. APPL MECH—S S. Shivawarma, BE(Civ), CIVIL ENGIN—R. Srinivasan, BE, GEOL. AND CHEM—Y B. Deshpande, MSc, MATHE—V M. Sakhar, MA Camb, MECH. ENGIN—B R. Sali, BE(Mech) Bcom

HUBLI, J.G. College of Commerce (1947) (tel. : Hubli 114) MCom Principal & Hd., Dept of BANKING AND ECON—C C. Patilbhatti, MA PhD Bcom. Hds of Depts. ACCY AND AUDITING—C A. Avasanathi, BA, FCA, COMMER.—J. K. Irani, MCom; ENGL.—T F. Murnahillan, MA, KANNADA—M. N. Ganiger, MA, MARATHI AND HINDI—Miss Sheshi K. Tunkar, MERCANTILE LAW—S. S. Ujannavar, BSc LLB, STATE—G. Bhaskar Rao, MA MSc.

HUBLI, *Kodanadashwar Arts College* (1952) (tel. Hubli 97) BA Principal—D. S. Kalki, MA PhD

HUBLI, *Kannada Medical College* (1957) (tel. 99) MB BS Principal—V. G. Kale, MB MS Bow

HUBLI, *P. C. Yashwanthi's Science College* (1957) (tel. 284) BSc Principal—S. S. Hanumanthappa, MSc Bow

KARWAR, *A. G. E.'s Arts & Science College* (1961) Pt. I BA, Pt. I BSc Principal—V. N. Shetgiri, MSc Bow

KUDURU, *Kannada College* (1949) (tel. 26) BA, BSc Principal & Hd. Dept of MAHES—L. S. Kamat, MA Hds. of Depts 2301.—Miss Ganga R. Sabnis, MSc; CHEM—Prof. S. S. Koppalkar, MSc Bow.; ECON—Prof. N. R. Rao, MA, ENGL.—B. S. Shankhag, MA; HINDI—V. R. Purnagurkar, MA LLB, HIST. AND ECON—N. Raja Gopala Rao, MA, KANNADA—K. G. Sheshu, MA; LOGIC AND PSYCHOL.—G. N. Kundargi, MA, PHYS.—R. A. Kaulgud, BSc, BANSA—D. H. Shreedhar, MA

MANGALORE, *Kasturba Medical College, Clin*

*Section* (1955) (telegrams: 'Keywayee', tel. 452) Principal—G. D. Velath, MD DTM Calc

MANIPAL, *Engineering College* (1957) (tel. 138) Udupi, BE(Civil). Principal—M. N. Kamath, BE(CE), MIE(Indus)

MANIPAL, *Kasturba Medical College Pre-Clin. Section* (1953) (tel. 133). 1st MB BS, Dean & Hd. Dept of ANAT.—R. P. Koppika, MS Hds. of Depts: PHYSIOL.—A. Krishnaswami, MB BS MSc; PHYL MED.—E. Anantha Rao, BSc MB BS DPH

NIPANI, *K. L. S.'s Arts & Science College* (1961) (tel. 116) Pt. I BA, Pt. I BSc Principal—T. K. Patil, MA Lond

RAICHUR, *L. V. D. College* (1954) (tel. 156) BA, BSc. Principal—R. B. Magal, MA.

UDUPI, *Law College* (1957) (tel. 73). LLB. Principal—N. S. Krishnamurthy, BSc Mys., LLB Bow

YADGIRI, *Shankar College* (1953) (tel. 60) Principal—B. M. Ramalingayya, MA Bow. & Madr., BT.

## INSTITUTION MANAGED BY THE UNIVERSITY

DIARWAR, *Kannada Research Institute* (1939) Dir.—P. B. Desai, MA Bow, DLitt.

## GENERAL INFORMATION

Karnatak Univ. is one of the regional univs. which came into existence with the splitting up of Bombay Univ. In response to an insistent demand from the Kannadigas for a separate univ. for Karnataka, the govt. of Bombay appointed the Karnataka Univ. Ctee in April 1947, under the chairmanship of Mr Justice N. S. Lukar. The Karnataka Univ. bill, based on this ctee's report, was passed by the Bombay legislature in April 1949. In June 1949 R. A. Jahagirdar was apptd. by the govt. of Bombay as first vice-chancellor of the univ. and on March 1, 1950, Karnataka Univ. was brought into existence as a corporate body. At present its jurisdiction extends over the districts of Dharwar, Belgaum, Bijapur, North Kanara, Raichur, Gulbarga and Badar; also and (S. Kanara) engin. and med. colls., Manipal, and law coll., Udupi

The univ. is both an affiliating and a teaching univ. It aims to develop into a residential univ. with emphasis on postgrad. instruction, affiliation being one of its subord. functions. The univ. also runs two colls. in Dharwar, one in arts and one in sci (see above, under 'Constituent Colls.') These two colls., which were formerly run by govt., were transferred in 1958 to the management of the univ. The Kannada Res. Inst., formerly attached to the colls., has been maintained as a separate inst. since they were transferred to management of the univ. In 1962 the univ. started a coll. in educn. and a coll. in law to

teach courses leading to MEd and LL.M. respectively. The postgrad. course in comm. formerly provided in the J. G. Coll. of Comm., Hubli, has been transferred to the univ.

CONSTITUTION. The senate is the supreme governing body of the univ. The executive powers are vested in the syndicate. The other authorities are the academic council, the facs., the bds. of univ. teaching and the bds. of studies in the various facs.

INCOME (1959-60). Rs. 2,87,051

FACULTIES AND DEANS. Agric., Principal S. W. Mensinkai, arts, Principal B. S. Ganuchari, engin., V. Bhat; law, Prof. V. A. Mujumdar, med., Dr. P. G. Gollarkari; sci., Principal V. V. Jetti, sec. sci., Principal B. M. Ramalingayya.

UNIVERSITY PREMISES. The univ. campus, now about 350 acres in area, is situated on a high hill-top known as 'Chhoti-Mahabaleshwar', about a miles S.E. of Dharwar city. A small township is growing up on the campus, the more important univ. bldgs. being the educn. bldg., admin. bldg., residential bungalows of sr. staff members, quarters for admin., teaching and menial staff, boys' hostel for 300 students, health centre, fac. club, central workshop, recreation/auditorium bldg., canteen, swimming-pool, etc. The fac. club, situated at the highest point, commands a view of the entire campus.

**LIBRARY** Univ. lib., about 60,000 vols.

**ADMISSION.** The min. qualif. for admission to pre-univ. courses in arts, sci. and comm., is the S.S.C. exam. of the S.S.C. exam. bd., Mysore State (if passed in prescribed subjs. with 35 per cent. marks in each subj.), or any other exam. recog. as equivalent by the univ.

The univ. allows students to take in 3 yrs BA and MA exams (except in geog. and stats) and MSc exam in maths as external candidates, i.e. without attending a coll.

**FIRST DEGREE** BA, BSc, BCom, 3 yrs after pre-univ. exam. BE (civil, mech. and electr.), 4 yrs after BSc pt. I exam. or pre-engin. exam. BSc(Agric.), 4 yrs after pre-univ. sci. exam. LLB, 3 yrs after pt. I exam., 2 yrs after graduation in arts or comm. or sci. MB BS, 4½ yrs after BSc pt. I exam. with med. group as pre-med exam.

**HIGHER DEGREE** 1 yr—BEd., 2 yrs—LLB (see also 'First Degrees'), 2 yrs—MA (econ., Engl., geog., hist., Kannada, Marathi, maths, philos., pol., Sansk., soc. anthropol., sociol., stats), MSc (bot., chem., geog., geol., maths, phys., stats, zool.), MEd, MSc(Agric.), LL.M., MCom. Also PhD (bot., chem., econ., Engl., geol., hist., Kannada, linguistics, philos., phys., pol., Sansk., soc. anthropol., sociol., zool.), DLitt (for public work), DSc.

**HONORARY DEGREE** PhD, DLitt

**DIPLOMA** Teaching (TD), 1 yr. after S.S.C. public admin., 1 yr. postgrad.

**RESEARCH** Facilities in following subjs. provided for MA and PhD—anthropol., archaeol., bot., chem., econ., Engl., epigraphy, geol., hist., Kannada, maths, philos., phys., pol., Sansk., sociol., stats and zool.

**STUDY LEAVE.** The univ. grants study leave to its employees to enable them to undertake higher studies or specialized trg. in profess. or tech. subjs. having a direct or close connection with the sphere of their duties. Ordinarily, the period of such leave does not extend to more than 12 mos. in the service of an employee. Study leave not debited against leave account.

**FEES (annual).** Rs. 223 for master's degree course in arts; Rs. 223 for PhD in arts; Rs. 253

for master's degree in sci., Rs. 263 for PhD in sci.; addnl. (refundable) fee of Rs. 30 towards lab. deposit payable by sci. and stats. students.

**ACADEMIC YEAR** June to March. 2 terms. Term dates (approx.) June 15 to Oct. 15, Nov. 9 to March 5.

**USUAL LANGUAGE OF INSTRUCTION** at present is English.

**UNIVERSITY EXTENSION.** 7 lecture camps organized at different remotest (rural) places (only in centres with no means of higher educn.); univ. teachers and other persons deliver lectures on a variety of topics.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** One studentship of Rs. 50 p.m., tenable for 2 yrs, is given for every 20 students in each of the subjs. for MA, MSc, MSc(Agric.), MEd, LL.M. and MCom. 4 govt. fellowships, each of Rs. 60 p.m., tenable for 2 yrs., are available for students admitted for postgrad. courses. 5 univ. res. scholrps., each of Rs. 125 p.m. for 2 yrs., are available for students working for PhD and DLitt. These awards are all open to grads. of any recog. univ.

**STUDENT RESIDENCES** Karnatak Univ. Boys' Hostel, Chhoti-Mahabaleshwar, Dharmur, Mysore State. Accom. for 255 students, intended mainly for postgrad. Fees, Rs. 50 deposit (refundable) plus Rs. 60 for single room, and Rs. 40 for double room, per term. mess, Rs. 35, mess charges about Rs. 40 per term. Ladies' hostel (vacuum. 40).

**STAFF RESIDENCES** controlled by univ. vice-chancellor's lodge, registrar's residence, dep. registrar's residence, 23 postgrad. teachers' residential quarters, 12 jr. quarters, 24 quarters for peons on staff of univ.

**PUBLICATIONS** *Bulletin*, Vol. I, No. 1 (free); annual reports (free); *Handbook*, Part I (annual, Rs. 0.50 n.p.); Part II (Rs. 10), Part IV (Rs. 0.50 n.p.); Kannada extension lecture booklets (Rs. 0.25 n.p. each); *Univ. Journal*, mainly intended to promote res. work by teachers and students of the univ., issued in Nov. (sci.) and June (humanities) (each Rs. 2.50) *Internat. Journal of Compar. Social*, publish in March and Sept. (annual sub., Rs. 40 or \$8) Also text-books and other scholarly publications.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	13,525	—
Women	1,192	—
Total	14,715	—

Distribution by Faculties: Agric., 474; arts, 5032; engin., 1338; law, 609; med., 1211; sci., 4640; soc. sci., 1361. Total 14,715.

Included in the figures above are —

Pre-University students, 4677

Postgraduate students, 1103

New admissions (to 3-yr. degree course), 1799. Students from other countries, 30. (Countries from which largest numbers came: Malaya, 12; Ceylon, 8).

**DEGREES AWARDED (1961-62)** Agric.: BSc, 58, MSc, 15. Arts: BA, 600, MA, 65. Engin.: BE, 83. Law: LLB, 89; LL.M., 4. Med.: MB BS, 29. Sci.: BSc, 313, MSc, 87. Soc. sci.: BEd, 54, MEd, 17; BCom, 164; MCom, 6. PhD (all facs.): 8.

**DIPLOMA AWARDED (1961-62)** TD, 6



# UNIVERSITY OF KERALA\*

Founded 1937

Postal Address : University Buildings, Trivandrum, Kerala State, South India

Cables and Telegrams : University, Trivandrum

Telephone : Trivandrum 3112

CHANCELLOR—THE GOVERNOR OF KERALA (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF KERALA (*ex officio*)

VICE-CHANCELLOR—K. C. K. E. RAJA, DTMRH

REGISTRAR—A. M. N. CHAKIAR, BA

DEANS OF FACULTIES—AGRICULTURE—Principal L. S. S. KUMAR, DSc Lond, ARIS—Principal P. C. JOSEPH, MA Madras, AYURVEDA—Principal K. K. NAMBIAR, HPIM, Madras, COMMERCE—Principal V. R. PILLAI, MA Madras, MSc Lond. (Econ.), EDUCATION—Professor N. P. PILLAI, MA PhD Bonn, LT, ENGINEERING—Principal K. C. CHACKO, MA BE Madras, MS Notre Dame, TUNIS—M. K. GOVINDA PILLAI, BA BL, LAW—V. N. SUBRAMONIA IYER, MA ML Madras, MEDICINE—C. O. KARUNAKARAN, MB BS Madras, DTMRH DPH Camb, DupBact Lond, OFFICIAL STUDIES—A. G. KRISHNA WARRIOR, MA Baw., PhD Madras, SCIENCE—Professor A. ABRAHAM, MA MSc Madras, PhD Camb. (Bot.), VETERINARY SCIENCE—M. N. MUNSON, BVSc Madras, FRCVS

## TEACHING STAFF

(Hds. of univ. teaching depts. and research)

<b>Applied Chemistry</b>		<b>Politics</b>	
Pillai, P. P., DSc Madras, FIRC	Prof.	Sukumaran Nair, V. K., MA PhD Yale	Reader
<b>Botany</b>		<b>Psychology</b>	
Abraham, A., MA MSc Madras, PhD Camb	Prof.	George, E. I., MA Madras, PhD Lond	Reader
<b>Economics</b>		<b>Statistics</b>	
Pillai, V. R., MA Madras, MSc Lond	Prof.	George, Miss Alevamina, MSc PhD	Prof.
<b>Education</b>		<b>Tamil</b>	
Pillai, N. P., MA PhD Bonn, LT	Prof.	Subramonium, V. I., MA PhD Indanar	Reader
<b>Marine Biology and Fisheries</b>			
Kuriyan, C. V., DSc Belgrade	Prof.-in-Charge		

## ADMINISTRATIVE AND OTHER STAFF

Vice-Chairman, Council of Res. A. Abasham, MA MSc Madras, PhD Camb	Chairman, Dept. of Publics K. Raghavan Pillai, MA PhD Lond
Deputy, V. G. Abasham, BA DipEd Madras	Librarian: K. A. Isaac, BSc MLabSc Delhi
Officer-in-Charge, Univ. Employment Bureau. K. S. Lakshmana Parakkal, MA MLitt Madras	Curator, MSS. Library: K. Raghavan Pillai, MA PhD

## AFFILIATED COLLEGES

[Pre-Univ., etc., after the name of a coll. means that courses are provided there for Pre-Univ., etc.]

### Arts and Science Colleges

#### FIRST GRADE COLLEGES

ALLEPPEY, Saintans Dharma College (tel.: 550) chem., bot., zool. and comm. Principal—A. V. Pre-Univ. Pass courses in econ., maths., phys., Akhileswaran Iyer, MA Madras & other Teachers.

\* Member of the Association of Universities of the British Commonwealth

ALLEPPEY, *St. Joseph's College for Women* (tel. 622). Pre-Univ. Pass courses in hist., econ., maths., chem., bot., zool. and home sci. Principal—Nesheri Olive Rodrigues, BA TD Bow 31 other Teachers

ALWAYN, *Union Christian College* (tel. 94). Pre-Univ. Pass courses in philo., econ., maths., phys., chem. and bot.; postgrad course in phys., pre-professional courses in med., dent. surg., Ayurveda, agric. and vet. sci. Principal—P. M. Mathias, MSc PhD Tw 47 other Teachers

CALICUT, *Ghuruvayppan College* (tel. 3616). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and comm.; postgrad. course in econ. Principal—N. T. Madhavan Nambiar, MA Mad 46 other Teachers

CALICUT, *Malabar Christian College* (tel. 2679). Pre-Univ. Pass courses in econ., maths., phys., chem. and zool. Principal—V. G. M. Pavamani, MA LT Mad 38 other Teachers

CALICUT, *Presidence Women's College* (tel. 3666). Pre-Univ. Pass courses in econ., chem. and zool. Principal—Rev. Mother M. Benedicta, MA Baw 21 other Teachers

CANNANORE, *Sree Narayana College* (tel. 385). Pre-Univ. Pass courses in econ., maths., phys., bot., chem., zool. and comm. Principal—R. Madhavan Row, MSc Lond 24 other Teachers

CHANGANACHERRY, *Assumption College* (tel. 190). Pre-Univ. Pass courses in econ., phys., chem., bot., zool. and home sci. Principal—Sister Mary Xavier, BA Mad 36 other Teachers

CHANGANACHERRY, *N.S.S. Hindu College* (tel. 90). Pre-Univ. Pass courses in Engl., philo., hist., pol., maths., phys., chem., zool., Malayalam, Hindi and comm.; postgrad. course in comm.; dipl. course in soc. service. Prof-in-charge—P. Ramakurup, MA Mad 59 other Teachers

CHANGANACHERRY, *St. Berchmans' College* (tel. 25). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and Malayalam; postgrad. courses in econ., phys., bot. and Malayalam; pre-professional courses in med., dent., surg., Ayurveda, agric. and vet. sci. Principal—Rev. Fr. F. Kalacherry, BSc Awan 67 other Teachers

CHITTUR, *Govt College* (tel. 47). Pre-Univ. Pass courses in philo., econ., music, maths., phys., chem., bot., zool., Malayalam, Tamil and comm. Principal—A. S. Narayana Pillai, MA MLitt PhD Mad 56 other Teachers

DIVYAGIRI, *St. Joseph's College* (tel. 2501). Pre-Univ. Pass courses in econ., maths., phys., chem. and zool.; postgrad. courses in Engl. and maths. Principal—Rev. P. Theodosius, MA Mad, PhD 47 other Teachers

ERNAKULAM, *Maharaja's College* (tel. 104). Pre-Univ. Pass courses in hist., econ., maths., phys., chem., bot., zool., Malayalam, Sansk. and Hindi; postgrad. courses in Engl., hist., econ., maths., phys., appl. chem., chem., bot., zool.,

Malayalam and Hindi, pre-professional courses in med., dent. surg., Ayurveda, agric. and vet. sci. Principal—A. Chandrabhasan, MA 111 other Teachers

ERNAKULAM, *St. Albert's College* (tel. 182). Pre-Univ. Pass courses in econ., maths., phys., chem., bot. and zool. Principal—Rev. Fr. X. Karampamath, MA Mad 38 other Teachers

ERNAKULAM, *St. Teresa's College* (tel. 197). Pre-Univ. Pass courses in Engl., econ., maths., phys., bot., zool. and home sci.; postgrad. course in home sci.; dipl. course in soc. service. Principal—Sister M. Digna, BA Mad 38 other Teachers

FERROKE, *Feroke College* (tel. 3603). Pre-Univ. Pass courses in econ., maths., phys., chem., zool., Arabic and comm.; postgrad. course in maths. Principal—K. A. Jaleel, MA 52 other Teachers

GURUVAYOOR, *Little Flower College* (tel. 57). Pre-Univ. Pass courses in econ., maths. and zool. Principal—Sister Mary Victoria, BA LT Mad 24 other Teachers

IRINJALAKUDA, *Christ College* (tel. 58). Pre-Univ. Pass courses in econ., phys., chem., zool. and comm.; postgrad. courses in zool. and comm. Principal—Rev. Fr. A. Gabriel, MA Mad 44 other Teachers

KALADY, *Sree Sarvasa College* (tel. 41). Pre-Univ. Pass courses in econ., maths., phys., chem., zool., Sansk. and comm.; postgrad. course in Sansk. Principal—C. V. Sethunathan, BSc Mad 35 other Teachers

KARAKKOD, *Govt College* (tel. 7). Pre-Univ. Pass courses in Engl., econ. and maths. Principal—K. R. Ramakrishnan, MA LT Mad 19 other Teachers

KOTHAMANGALAM, *Mar Athanasius College* (tel. 26). Pre-Univ. Pass courses in econ., maths., phys., chem. and zool. Principal—Rev. Fr. V. M. Geevarghese, MA Mad 30 other Teachers

KOTTAYAM, *Bishop Chulaparambil Memorial College* (tel. 2171). Pre-Univ. Pass courses in hist., econ., maths., phys., chem., bot. and zool. Principal—Rev. Sr. M. Goretti, MA Baw 43 other Teachers

KOTTAYAM, *C M S. College* (tel. 471). Pre-Univ. Pass courses in Engl., hist., maths., phys., chem., zool., home sci. and comm.; postgrad. course in Engl., maths. and chem.; dipl. course in Engl.; dipl. course in the teaching of Engl. Principal—P. C. Joseph, MA Mad 56 other Teachers

KOZHENCHERRY, *St. Thomas College* (tel. 9). Pre-Univ. Pass courses in econ., maths., phys., chem., bot. and zool. Principal—A. J. Cherian, MA Mad 47 other Teachers

MADAPPALLI, *Govt. College*. Pre-Univ. Pass

COURSES in hist and matha. Principal—K. Madhava Menon, MA *Mad* 18 other Teachers

MUVATILUPUZHA, *Normal College* (tel. 61). Pre-Univ. Pass courses in econ, maths, phys., chem., bot and comm. Principal—Rev Fr T Nedumkallil, MA BT *Mad* 40 other Teachers.

PALAI, *St. Thomas College* (tel. 17). Pre-Univ. Pass courses in econ., pol., Engl, maths, phys., chem., bot, zool., Malayalam and comm.; postgrad. courses in pol., bot, stats and Hindi. Principal—Rev. Fr J Kuroenthadam, MA *Nag*. 75 other Teachers

PALOMAT, *Govt. Victoria College* (tel. 173). Pre-Univ. Pass courses in Engl, philos, hist, econ, maths, phys., chem., bot, zool., Malayalam, Sanskrit, Hindi and comm. postgrad. courses in Engl, appl. phys, zool and stats, pre-professional courses in med, dent surg, Ayurveda, agri. and vet sci. Principal—C P. K. Tharigan, BA LT *Mad* 57 other Teachers

PALUNAY, *N.S.S. College*. Pre-Univ. Pass courses in Engl, maths. and comm. Principal—V Sankaranikutty Menon, MA *Mad* 20 other Teachers.

PANDALAM, *N.S.S. College* (tel. 1). Pre-Univ. Pass courses in Engl, econ, maths, phys., chem., bot, zool., Malayalam, Hindi and comm. Principal—G. Balakrishna Pillai, MA *Nag*, BL. 59 other Teachers

PATHANAMTHITTA, *Catholicate College* Pre-Univ. Pass courses in econ., maths, phys, chem., bot and Malayalam. Principal—A Narayanan Potti, MA Calc., PhD. 37 other Teachers

QUILON, *Fatima Mata National College* (tel. 2284). Pre-Univ. Pass courses in econ, maths, phys, chem, bot, zool and comm., postgrad courses in bot. and comm. Principal—Rev Fr C. M. George, BA 55 other Teachers.

QUILON, *Sree Narayana College* (tel. 459). Pre-Univ. Pass courses in Engl, econ., pol, maths, phys, chem., bot., zool., Malayalam, Hindi and comm.; postgrad courses in Engl, pol, econ. and chem. Principal—M Sreenivasan, MA PhD *Alg* 86 other Teachers.

QUILON, *Sree Narayana College for Women* (tel. 2269). Pre-Univ. Pass courses in econ, maths, chem., bot., zool and home sci. Principal—E. K. Santha, MA LT *Mad* 48 other Teachers.

TELLICHERRY, *Govt. Bowen College* (tel. 27). Pre-Univ. Pass courses in Engl, hist, econ, maths, phys, chem., bot, zool. and Malayalam; postgrad. course in hist. Principal—P S Velayudhan, MA *Mad*. 52 other Teachers

THEVARA, *Sacred Heart College* (tel. 171). Pre-Univ. Pass courses in econ, maths, phys., chem, bot., zool., Malayalam and comm.; postgrad courses in econ, soc work, chem, zool and

comm; dipl course in soc service. Principal—Rev Fr Theobald, MSc *Luck*, PhD *C.U.A.* 70 other Teachers

THIRUVALLA, *Mar Thomas College* (tel. 42). Pre-Univ. Pass courses in philos., econ, maths, phys., chem and bot. Principal—M V John, MA *Mad* 49 other Teachers

THIRUPUR, *St. Mary's College* (tel. 770). Pre-Univ. Pass courses in econ, maths, phys, chem., bot and zool., postgrad. courses in Engl and econ., dipl course in soc. service. Principal—Sister Anamatha, BSc *Mad*. 47 other Teachers.

THIRUPUR, *St Thomas College* (tel. 152). Pre-Univ. Pass courses in econ, maths, phys, chem, bot, zool, stats. and comm.; postgrad courses in phys and chem. Principal—Rev. Fr I Muthupillai, MA *Mad*. 60 other Teachers.

THIRUPUR, *Sree Kerala Varma College* (tel. 176). Pre-Univ. Pass courses in Engl, econ., maths., phys, chem, bot, zool., Malayalam, Hindi and comm. Principal—R Varma, MA *Mad*, BCom LLB *Luck*. 56 other Teachers

THIRUVANANTHURAM, *H.H. The Maharaja's College for Women* (tel. 2286). Pre-Univ. Pass courses in philos., hist, econ., music, maths, phys., chem., bot, zool and home sci. Principal—Mary Poonen, BA *Mad*, BSc *Lond*. 74 other Teachers

THIRUVANANTHURAM, *H.H. The Maharaja's Sanskrit College* (tel. 3312). Pre-Univ. (Sansk.), BA (Sansk.) and postgrad. course in Nyaya and Vedanta. Principal—P K Narayana Pillai, MA *Mad*, PhD *Bom* 20 other Teachers

THIRUVANANTHURAM, *H.H. The Maharaja's University College* (tel. 2030). Pass courses in Engl, philoa., hist., econ, pol., maths., phys, chem., bot, zool., geol., Sansk., Malayalam, Hindi, Tamil; postgrad. courses in Engl, philos., hist., econ., maths., phys., chem, bot., zool., Sansk., Malayalam and Hindi. Principal—B. P. Narayana Pillai, MA *Mad*, & *Ox* 122 other Teachers.

THIRUVANANTHURAM, *Makatas Gandhi College* (tel. 2139). Pre-Univ. Pass courses in hist, econ., maths, phys., chem., bot, zool., Malayalam, Hindi and comm. Principal—M P Mannathath, MA 48 other Teachers

THIRUVANANTHURAM, *Mar Thomas College* (tel. 2153). Pre-Univ. Pass courses in Engl., econ, maths, phys., chem., bot., zool., Malayalam and comm.; postgrad courses in zool and comm.; dipl. course in soc service, pre-professional course in med. Principal—Rev. Dr G. Panicker, MA PhD *C.U.A.* 67 other Teachers.

THIRUVANANTHURAM, *N.S.S. College for Women* (tel. 2173). Pre-Univ. Pass courses in hist, econ., bot and home sci. Principal—C. Saradamma, MA LT *Mad* 26 other Teachers

## SECOND GRADE COLLEGES

TRIPUNITHURA, *Govt Sanskrit College* Pre-  
Univ. (Sanak) Principal—T K Ramachandran  
Iyer, MA MAd. 6 other Teachers

TRIVANDRUM, *Intermediate College* (tel. . 2040)

Pre-Univ., pre-professional courses in med.,  
dent surg., Ayurveda, agri and vet sci. Principal—N Krishna Pillai, BA MAd. 29 other  
Teachers.

## Professional Colleges

CALICUT, *Govt. Training College* (tel. . 3192)  
BED Principal—K I. Varghese, MA MSc LT  
Madr. 9 other Teachers

CALICUT, *Medical College* (tel. . 3811) MB BS  
Principal—R Ananthanayannan, BA MB BS  
Madr., DipBact PhD Lond. 91 other Teachers

CHANGANASSERY, *NSS Training College*  
(tel. : 8) BED Principal—M. Gopalan Nair,  
MA LT MAd. 7 other Teachers

ERNAKULAM, *H.H. The Malankara's Law College*  
(tel. . 20) BL, ML Principal—R. Sankar-  
dasan Thampi, BSc ML. 6 other Teachers.

ERNAKULAM, *St Joseph's Training College for  
Women* (tel. 651) BED Principal—Lilly  
Kurien, MA Nag. 7 other Teachers

FEROKE, *Feroke Training College* BED Prin-  
cipal—T K Subramoniam, BA LT MAd. 6  
other Teachers

KOTHAMANGALAM, *Mar Athanasius College of  
Engineering* BSc(Eng) in civil, mech and electr  
engin. Principal—O A. Mathew, BSc MS  
(Engg) MAd. 12 other Teachers

KOTTAYAM, *Mount Carmel Training College*  
(tel. : 2020). BED. Principal—Sister M. Craci-  
fexa, BA LT MED MAd. 7 other Teachers.

KOZHIKODE, *Regional Engineering College* BSc  
(Eng) in civil, mech. and electr. engin. Principal  
—M V Kossava Rao, BSc PhD, MIEE. 10 other  
Teachers

MAHINNAM, *St Joseph's Training College* (tel.  
696) BED Principal—Rev. Dr I M Veda-  
kan, MA De Paul, DEd Loyola, BA BT. 4 other  
Teachers.

MAVILEKARA, *Peet Memorial Training College*.  
BED. Principal—A Cheryan, MA MAd., TD  
Lond. 5 other Teachers.

MOOTHUKUNNAM, *S.N.M Training College*.  
BED. Principal—K T Sukumaran, BCom BA  
BT MAd. 5 other Teachers.

NEEDUNGIANDA, *Sree Narayana Training College*  
BED Principal—K P. Govindan, MA Annam,  
BT. 6 other Teachers

OTTAPALAM, *NSS Training College*. BED  
Principal—P K. Raman Nair, MA Nag., BT. 4  
other Teachers.

PALAI, *St Thomas Training College*. BED.  
Principal—Rev. Fr T T. Joseph, BA MAd.,  
BT. 5 other Teachers.

PALGHAT, *NSS College of Engineering* (tel.  
218). BSc(Eng) in civil, mech. and electr. engin  
Principal—V Sivasankaran Nair, BA BSc(Eng)  
Bom. 16 other Teachers

PANDALAM, *NSS Training College* BED  
Principal—C Krishna Das, MA Nag., LT. 6  
other Teachers

PATMANAPURAM, *Mt Taboi Training College*  
BED. Principal—V Murthy, BSc BT MED  
5 other Teachers

QUILON, *Karimela Ram Training College* (tel. .  
2655) BED Principal—P S Abisham, BA  
MAd., MED Lond. 8 other Teachers

QUILON, *Thangal Kunju Muslihs College of  
Engineering* (tel. 2004) BSc(Eng) in civil, mech  
and electr engin. Principal—S. Padmanabha  
Iyer, BA BE MAd. 44 other Teachers

TALLACHEERY, *Govt. Training College* (tel.  
227) BED Principal—Mas M Varughese, BA  
Madr., MA TD Lond. 8 other Teachers

THIRUVALLA, *Titus II Teachers' College* BED  
Principal—Rev T. C Thomas, MA LT MAd.  
6 other Teachers

TRICHUR, *Engineering College* (tel. : 502) BSc  
(Eng) in civil, mech and electr. engin. Principal  
—P. C Eapen, BSc(Eng) Bom. 38 other Teachers

TRICHUR, *Govt. Training College* (tel. . 490)  
BED Principal—T. P. Varghese, BA MAd.,  
MED DipEd Lond. 10 other Teachers.

TRICHUR, *Veternary College* (tel. : 421) BVSc.  
Principal—C. T. Peter, BVSc MSc PhD. 34  
other Teachers

TRIVANDRUM, *Ayurveda College* (tel. : 2251).  
Degree (BAM) and dipl (DAM) in Ayurveda.  
Principal—K. K. Nambiar, HPIM MAd. 35  
other Teachers

TRIVANDRUM, *College of Engineering* (tel. :  
2010). BSc(Eng) in civil, mech. and electr.  
engin ; postgrad. course in engin (electr machine  
des., hydraulics, irrigation and flood control and  
struct. engin.). Principal—K C. Chacko, MA  
BE MAd., MS Notre Dame. 75 other Teachers

TRIVANDRUM, *H.H. The Maharaja's Training  
College* (tel. . 2964) BED. Principal—K. M  
Muni, BA MAd., LT. 14 other Teachers.

TRIVANDRUM, *Law College* (tel. : 3246) BL,  
ML. Principal—M. George, BA ML. 4 other  
Teachers.

TRIVANDRUM, *Mrs Theophilus Training College*  
BEd Principal—Rev P J Mathew, MSc MEd  
6 other Teachers

TRIVANDRUM, *Medical College* (tel. 2231)  
MB BS, BDS, postgrad degree courses in MD  
(gen med), MD (obstet & gynaecol) and MS

(gen. surg), postgrad dipl courses in obstet.  
& gynaecol and clin pathol Principal—M.  
Thangavelu, MD *Med.* 128 other Teachers

VELLAYANGI, *Agricultural College* (tel. 3021).  
BSc(Agr), MSc(Agr) Principal—L. S. S.  
Kumar, DJC, MSc *Land* 32 other Teachers

### Oriental Title Institutions

ANGADES, *Saivismisulam Arabic College* Course  
for Afzal-ul-ulum. Principal—M. Sheikh Moham-  
med Sahib, BOL *Mad.* 6 other Teachers

PERORE, *Madassathul Uloom Arabic College*  
Course for Afzal-ul-ulum. Principal—M C C.  
Abdurahman Moulavi, BOL *Mad.* 6 other  
Teachers

PERORE, *Romathul Uloom Arabic College*.  
Course for Afzal-ul-ulum. Principal—Abu-  
sabah Ahmed Ali, MA. 5 other Teachers.

KANJIRAPALLY, *Nurul Huda Arabic College*.  
Course for Afzal-ul-ulum. Principal—C. H.

Mohamed Kunha, Afzal-ul-Uluma *Mad.* 4 other  
Teachers

PATTAMBI, *Gout. Sanskrit College*. Courses for  
Vidvan (Sansk.) and Vidvan (Malayalam). Prin-  
cipal—P. V. Rama Iyer, Siromani *Mad.* 5 other  
Teachers

PAVARATIVY, *Salutya Deeptha Sanskrit College*  
Courses for Vidvan (Sansk.) and Vidvan (Malay-  
alam) Principal—P K Francis, Siromani *Mad.*  
8 other Teachers.

PERDALA, *Mahajana Sanskrit College*. Courses  
for Vidvan (Sansk.) and Vidvan (Kannada). Prin-  
cipal—K S Bhat, MA *Mad.* 3 other Teachers

### GENERAL INFORMATION

The Univ. of Travancore, now reconstituted as  
the Univ. of Kerala, was established under an act  
promulgated by H H. the Maharaja of Travancore  
on Nov 1, 1937. The chief aims of the univ were  
stated as being to effect a reorganisation of the  
system of educn. in the state with a view to the  
gradual devel. of technical and technol. educn.,  
to make greater and more systematic provision  
for furtherance of original res. in the various  
branches of appl sci., and to provide for con-  
servation and promotion of Kerala art and cultur.

With the reorganisation of states and the forma-  
tion of the new state of Kerala, it was found neces-  
sary to reconstitute the univ. into a teaching and  
federal univ with a jurisdiction extending over  
the whole of the state of Kerala in order to enable  
it to provide for the conservation, promotion and  
development of Kerala art and culture and the  
Malayalam lang and for the gradual change of  
the medium of instructn into Malayalam in all  
educnl instns of the state, and to provide greater  
facilities for postgrad study and original res. in  
all branches of learning by establishing centres of  
postgrad. study and res. in different parts of  
the state. The Kerala Univ Act came into force  
on Aug 30, 1957, and the Univ. of Travancore  
became the Univ. of Kerala from that date.

**CONSTITUTION.** The governor of the state of  
Kerala is the chancellor of the univ., and the pre-  
chancellor is the minister of education for the  
state. The vice-chancellor, the principal academic  
and executive officer of the univ., is apptd. by the  
chancellor on the unanimous recommendation of  
a sp. cttee of 3 members (1 elected by the senate,  
1 by the syndicate, and 1 nominated by the chan-  
cellor), to hold office for 3 yrs., the appt. of the  
first vice-chancellor under the Kerala Univ. Act  
having been made, however, by the chancellor.

The other authorities of the univ. are the senate,  
syndicate and facs. The senate, to be reconsti-  
tuted every 3 yrs., includes, *ex officio*, elected  
and nominated members and has general  
superintendence over the affairs, concerns and  
properties of the univ. The syndicate, of 16  
members, is the executive body and exercises  
general superintendence and control over the  
instns of the univ. The facs advise the senate  
and syndicate on all academic matters.

**INCOME** (1956-57) Rs. 6,896,743 (govt grant,  
60.2 per cent.; fees, 20.7 per cent., misc, 19 per  
cent.).

**FACULTIES.** Agric, arts, Ayurveda, comm.,  
educn, engin., fine arts, law, med., oriental  
studies, sci., vet. sci. For deans, see p. 604.

**LIBRARIES** Univ library contains 89,457  
books, univ MSS library, over 35,800 MSS  
and 5975 printed books.

**LABORATORIES** Appl. chem., marine biol.,  
oceanog., stats.

**ADMISSION.** Admission to pre-univ. course is  
open to candidates who have passed the secondary  
sch. leaving cert. exam. conducted by the educn.  
dept. of the Kerala state or any other exam.  
accepted by syndicate as equivalent.

**FIRST DEGREES.** 3 yrs after pre-univ.—BA,  
BSc, BCom. 5 yrs after pre-univ.—BSc(Eng),  
BAM (Ayurvedic med.). After pre-professional  
3 yrs.—BSc(Agr), 4 yrs.—BDS, BVSc, 5½ yrs  
—MB BS.

**HIGHER DEGREES.** 1 yr.—BLibSc, BEd, MSc  
(Eng); 2 yrs.—BL, MA (course), MSc (course),  
MCom, MSW, MEd (after BEd), ML (after BL),  
2 yrs after BSc(Agr)—MSc(Agr), 3 yrs.—  
MSc by res., 2 yrs after MB BS—MS, MD,

2 yrs after MSc by res, 3 yrs after MA or MSc  
dipl ex am—PhD (by res), 2 yrs after PhD—  
DLitt, DSc

#### HONORARY DEGREES DSc, DLitt, LLD

**DIPLOMAS** 1 yr after graduation—DSS, 1  
yr, after MB BS—DGO, DCP, 1 yr, after MA—  
dipl in Engl, 1 yr after BEd—dipl in teaching  
of Engl, 2 yrs after graduation—dipl in  
German, 3 yrs after S S L C—DAM (Ayurvedic  
med.)

**GRADUATE STUDIES** The following titles are  
awarded by exam: 3 yrs. after S S L C or  
entrance exam in the corresp. lang.—Vidvan  
(Hindi, Kannada, Malayalam, Sanskrit, Tamil),  
4 yrs after S S L C or entrance to Afzal-ul-  
ulama title exam—Afzal-ul-ulama (Arabic).

**RESEARCH.** To promote res in appl sci a  
Central Res Inst. was founded in 1939 by amal-  
gamating scientific units of various govt depts.  
The inst. was reorganized in 1956 and again in  
1959. With the last reorganization the following  
depts. and sections became independent depts. of  
study and/or res. and function directly under the  
vice-chancellor: state, appl chem, bot, marine  
biol & fisheries, geol and pharmacognosy.  
The chairman of the new council of res is the  
vice-chancellor.

Facilities for postgrad study and res. are also  
provided in the univ depts of educn, pol, &  
psychol and Tamil.

**STUDY LEAVE**, as such, is not granted. Tem-  
porary employees (subject to continuous service  
for not less than a yr), and permanent  
employees, granted ordinary leave plus leave on  
loss of pay for purposes of higher studies.

**FEEs.** Tuition fees p a: pre-univ., Rs. 108,  
pre-professional, Rs. 128; BA, BSc (pass & hon.),  
Rs. 128, BA, BSc (3 yrs), Rs. 128, FL & BL,  
Rs. 160; BEd, Rs. 150; BSc(Eng), Rs. 200;  
MB BS, Rs. 240; BSc(Agric), Rs. 150; BVSc,  
Rs. 150.

**ACADEMIC YEAR.** June to March, 3 terms.  
June 11 to Sept 7; Sept. 17 to Dec 21, Jan 2  
to March 19.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	34,899	29
Women	15,091	5
Total	49,990	34

Distribution by Faculties: Agric., 218; arts,  
sci. & oriental studies, 40,462; Ayurveda, 109;  
commerce, 2199; educn., 2141; engin., 2674; fine  
arts, 20; law, 385; med., 1479; vet sci., 328.  
Total: 50,024.

Included in the figures above are:—

Pte-University students, 18,361

X

### LANGUAGE OF INSTRUCTION AND EXAMINATION. English

THE UNIVERSITY EMPLOYMENT BUREAU func-  
tions as an integral part of the National Employ-  
ment Service with freedom to develop on its own  
lines. It aims to make available to univ. students  
all current lit. and information relating to careers  
and openings and information regarding current  
competitive exams., various courses of studies of  
a specialized or profess. nature offered by other  
univs in India and other countries and assist  
univ. students in taking up such trg. or studies;  
to select and submit suitable registers of the  
bureau against vacancies for apprentices and  
trainees in private establish., etc.

**RESIDENCE.** Students not living with their  
parents or guardians must live in approved hostels  
or lodgings. Besides the hostels maintained by  
govt. and the univ. there are also private hostels  
recog. by the univ.

**MEDICAL INSPECTION AND PHYSICAL EDUCA-  
TION.** Provision has been made for med. inspec-  
tion of students by qualified med. officers. Every  
student is required to undergo med. inspection  
on admission to pre-univ. course and again on  
admission to pre-professional course, 3-yr degree  
course, etc., and every alternate yr. thereafter.  
Phys. educn. is compulsory for the pre-univ.,  
pre-professional and 1st yr. of the 3-yr degree  
courses and the calls have qualified phys. instrs.  
Athletics have been provided for in all colls.  
Univ. tennis stadium, stadium for field sports.  
Instrcn. in Yogic phys. culture.

**DEPARTMENT OF PUBLICATIONS.** This dept.  
publishes new books of literary and scientific  
interest in Tamil and Malayalam.

**PUBLICATIONS.** *Calendar*: 2 pts (pt. I, act,  
statutes, ordinances, etc., every 3 yrs., Rs. 4-50;  
pt. II, syllabus, every 3 yrs., Rs. 9); *List of  
Text-books for univ. exams.*, annual, Rs. 1;  
*Administration Report* (annual); *Journal of Indian  
Hist.* (3 issues p.a.), Rs. 10-50 p.a.; *Sanskrit  
Journal* (quarterly), Rs. 4 p.a.; *Information  
Bulletin* (quarterly), Rs. 1 p.a.; *Youth magazine*  
(3 times a yr.), Rs. 1 p.a.

Postgraduate students, 1696

New admissions, 18,412

Students from other countries, 21 (Countries  
from which largest numbers come: Kenya, 5;  
Malaya, 5)

**DEGREES AWARDED (1960-61).** Agric.: BSc  
(Agric), 30; Arts: BA, 1407; BA hon., 50,  
MA, 122; Ayurveda: BAM, 22; Comm.:  
BCom, 276; Educn.: BEd, 609; MED, 2;  
Engin.: BSc(Eng), 93; Fine arts: BA, 3; Law:  
BL, 98; ML, 1; Med.: MB BS, 89; Oriental  
studies: BA, 195; Sci.: BSc, 2079; BSc hon.,  
30; MSc, 76; Vet. sci.: BVSc, 15; PhD (all  
fac.), 2.

INDIA

# KURUKSHETRA UNIVERSITY

Founded 1956

Postal Address : Kurukshetra, Panjab, India  
Cables and Telegrams . Kurukshetra University, Kurukshetra  
Telephone . Kurukshetra 26, 23

CHANCELLOR—H E THE GOVERNOR OF THE PANJAB  
VICE-CHANCELLOR—S. BHAN, MA Pay & Load  
REGISTRAR—R. C KHANNA, MA

## ADMINISTRATIVE AND OTHER STAFF

Librarian : K S Datta, MA MLibSc Med  
Officer : H. Khanna, MB BS Chief Accounts  
Officer : B. N Chopra Univ Engineer. S.  
Hari Singh. Asst Registrar. S Chakrabarti,  
MA. Office Supt. V. M Sud, BA.

## CONSTITUENT COLLEGES

[Pre-Univ., etc, after the name of a coll. means that courses are provided there for Pre-Univ., etc.]

COLLEGE FOR WOMEN (Govt.) Pre-Univ., BA  
pass, BSc pass Principal—Mrs P K Singh,  
MA BT. 1 Sr Lectr., 13 Lectrs.

COLLEGE OF EDUCATION. BA (educn.), BSc  
(educn.). Principal—U Shankar, MA Pay &  
Load, DipEd Load. 8 Sr Lectrs, 18 Lectrs

UNIVERSITY COLLEGE. Pre-Univ., Pre-Med,  
BA pass, BSc pass, BA hon, BSc hon, MA,  
MSc Principal—K. L. Mathuria, MA Hds of  
Depts : ANC. INDIAN HIST. AND CULTURE—Miss  
Ramesh Thapar, BA Pay. & Load, PhD Load,

Reader, CHEM—S M Mukherjee, PhD BSc,  
DSc Calc, FNI, Prof.; ECON—V Mishra, MA  
(Econ) Mcom, MCom LLB PhD Load, Reader;  
MATHS.—Prof., HINDI—H. Bhat, MA  
PhD Pay, D Litt Add, Reader, HIST—V. N  
Datta, MA Pay & Load, M Litt Grad, Reader;  
MATHS.—S. D. Chopra, MA Pay, PhD Grad,  
Prof., PHILOS.—, Reader; PHYS—K. K.  
Nagpal, MSc Pay, PhD Bsc, Reader, POL.  
SCI—G Krishna, MA DPhil Oxon, Reader,  
SANITARY—D N Shastri, MA Pay & Calc,  
D Litt Agri, Prof. Other staff : 2 Readers, 28  
Lectrs, 2 Tutors.

## GENERAL INFORMATION

Kurukshetra Univ was established in 1956 as 'a  
unitary, teaching and residential univ' by an act  
of the legislature of Panjab state. 400 acres were  
acquired for the univ campus about 14 miles  
from the town of Thanesar. This site nr. the  
sacred tank of Kurukshetra was chosen by the  
univ's sponsors for its historical and spiritual  
significance.

Beginning with only a dept of Sanskrit, the  
univ. has been developed into a multi-fac. instn.  
providing instructn. in arts & langs., sci., soc. sci.,  
Indic studies, and educn. It is nevertheless not  
intended to lose sight of the main purpose of the  
univ., which is to encourage 'higher educn. and  
res., esp. in Sanskrit, Prakrits and mod. Indian  
langs. as also in Indian philos., anc. Indian hist  
and other aspects of India.'

The univ. has no affiliated colls. Each of the 3

constituent colls. is in charge of a principal.

A large bldg. programme will be put into  
operation shortly.

CONSTITUTION The act and statutes of the  
univ provide for a chancellor, vice-chancellor,  
registrar, librarian, deans of facs., proctor and  
for these authorities : court, exec. council, acad.  
council, finance comm., facs. of the univ, bds. of  
studies. The chancellor is the titular hd. of the  
univ. The vice-chancellor is the chief executive  
and academic officer and ordinarily holds office  
(renewable) for 3 yrs. The functions of the  
court, acad council, exec council, etc, are  
similar to those of the corresponding bodies in  
other univs. In the constitution of these univ.  
bodies the element of election has been kept to a  
minimum.

INCOME (1961-62) Rs 2,839,480 (govt grants, Rs 2,388,000, Univ Grants Commission, Rs 152,000, fees, etc., Rs 299,480)

FACULTIES AND DEANS *Arts & lang.*, . . . ; *educn*, . . . ; *sci*, Prof S M Mukherjee, sec. sci, Dr V Mishra

INSTITUTE OF INDIC STUDIES. The univ has establd the inst to encourage higher educn & res in Sanskrit, Pali and Prakrit linguistics, Indian philos and religion, anc Indian hist & culture, archaeol and other aspects of Indology. It is recruiting specialists in different branches of Indic studies

LIBRARY 20,876 vols.

ADMISSION Pre-univ : matric or equivalent exam. Pre-med : 1st yr—as for pre-univ (but with sci), and yr—higher sec or pre-univ or equivalent exam (with biol as one of subjs). BA pass, higher sec or pre-univ or equivalent exam. BSc pass as for BA pass (but with sci subjs). BA honors as for BA pass but applicants must have at least 45 per cent of total marks of exam or 50 per cent marks in subjs to be taken for honors. BSc honors as for BSc pass but applicants must have 50 per cent marks in aggregate. MA BA honors or BA pass with 45 per cent marks in aggregate or 50 per cent marks in the subjs. MSc in chem. BSc honors with 45 per cent marks in aggregate or BSc pass with 55 per cent in aggregate with chem, maths and phys as subjs.

FIRST DEGREE 3 yrs—BA pass, BSc pass,

BA honors, BSc honors 4 yrs from matric—BA (educn), BSc (educn), in each case, an integrated course includes instructn in academic and pedagogical subjs. concurrently

HIGHER DEGREE 2 yrs—MA, MSc, PhD

STUDY LEAVE is granted to staff members for approved advanced study and res

FEES Annual tuition fees pre-univ, Rs 120, pre-med (1st yr.), Rs 120, pre-med (2nd yr.), Rs 180; BA (pass & honors), BSc (pass & honors), Rs 180, MA, MSc, Rs 216

ACADEMIC YEAR Mid-July to 3rd week of April 3 terms

LANGUAGE OF INSTRUCTION English or Hindi up to BA and BSc level, English at postgrad level

STUDENT RESIDENCES Univ Coll 2 halls of residence for men in which all male students on the campus reside. Coll for women hall of residence (under control of univ) for women in which all women students reside

The principal of Univ Coll is responsible for the health, discipline and welfare of all students in the univ.

NATIONAL CAMEL CORPS Contingent of rifle co

STUDENT HEALTH SERVICE Well-equipped univ dispensary, annual med. exam of students. Student health centre will be establd shortly

PUBLICATIONS *Calendar*, *Prospectus* (annual)

## THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed* hostel for men, admin block

Distribution by Faculties *Arts, lang., & soc sci*, 246; *educn*, 229; *sci*, 73. Total, 548.

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	441	—
Women . .	107	—
Total	548	—

Included in the figures above are—

Pre-University students, 187

Postgraduate students, 59

New admissions, 453

Students from other countries, nil

DEGREES AWARDED (1960-61) BA in Sanskrit, 18 (No first degrees awarded)



# UNIVERSITY OF LUCKNOW

Founded 1927

Postal Address: Badshah Bagh, Lucknow, Uttar Pradesh, India

Telephones Univ Office, 22270, Registrar, 23138

CHANCELLOR—THE GOVERNOR OF UTTAR PRADESH

VICE-CHANCELLOR—A V RAO, MA *Adv*, PhD *Law*

HON TREASURER—N C CHAUDHURI, MA LLB

REGISTRAR—P C MITAL, MA

PROCTOR—M D JOSHI, MA DLit

HON LIBRARIAN—P N SHARMA, DSc

## TEACHING STAFF

[=Part-Time]

CANNING COLLEGE (Arts, Science, Law, Commerce and Oriental Dept)

(Telephone: 22270)

Ancient History and Archaeology		Alavi, M H, MA PhD		Lectr
Dixit, R. K., MA PhD	Prof.	Ahmed, E., MA PhD		Lectr
	Asst Prof.	Astronomy, see Maths		
Puri, B. N., BLitt DPhil Oxon, MA LLB	(on leave) Lectr.	Botany		
Srivastava, B. N., MA LLB PhD	Lectr.	Banshchandra Rao, A., DSc		Prof
Singh, S. D., MA	Lectr.	Varma, G. S., MSc PhD, FLS		Reader
Awasthi, A. B. L., MA	Lectr.	Agarwal, S. C., PhD <i>Brist</i> , MSc <i>Brist</i> &		
Saksena, K. K., MA	Lectr.	Lack		
Thapliyal, K. K., MA	Lectr.	Trivedi, B. S. C., MSc		Reader
Lal, A., MA	Temp. Lectr.	Rai, J. N., MSc PhD		Lectr
Srivastava, A. K., MA	Temp. Lectr.	Ram Udar, MSc PhD		Lectr
Anthropology		Prasad, B. N., MSc PhD		Lectr
Sen, D. K., MSc <i>Cole</i> .	Lectr.	Awasthi, D. D., MSc		Lectr
Mathur, K. S., PhD <i>ANU</i> , MA BCom	Lectr.	Sharma, B. B., MSc PhD		Lectr
Saxena, G., MA	Lectr.	Raghuvanshi, S. S., PhD <i>Anth</i> , MSc		Lectr
Madan, T. N., PhD <i>JNU</i> , MA	Lectr.	Saxena, B. N., MSc		Lectr
Jain, R. K., MA	Temp. Lectr.	Sharma, C. P., MSc		Lectr
Srivastava, R. P., MA	Temp. Lectr.	Sharma, Miss Usha, MSc		Temp. Lectr
Applied Economics		Business Administration		
Gupta, O. P., BSc(Econ) PhD <i>Lawd</i> .	Prof	Pandey, A., MA <i>Adm</i>		Lectr
Dutt, G., MA MCom LLB	Reader	Vashishta, R. L., MCom PhD		Lectr
Hajela, G. L., MA <i>Adm</i> , LLB PhD	Lectr.	Joshi, L. D., MCom DPA		Lectr.
Singh, M. P., MA MCom PhD	Lectr.	Srivastava, K. S., MCom PhD		Lectr
Rastogi, J. L., MCom PhD	Lectr.	Kaushal, O. P., MA MBA <i>Penn</i>		Lectr
Maheshwari, K. L., MCom	Temp. Lectr	Srivastava, P. N., MCom		Temp. Lectr
Vashishta, P. N., MCom	Temp. Lectr	Chemistry		
Khandelwal, B. N., MCom PhD	Temp. Lectr.	Shukla, S. N., PhD <i>Lawd</i> , MSc		Prof
Saxena, R. M., MCom	Temp. Lectr	Sen, A. B., MSc PhD		Prof
Arabic		Krahnun, P. S., PhD <i>Cern</i> , MA MSc		Prof
	Prof	Srivastava, L. N., MSc PhD		Reader
Semida, S. B., MA PhD DLit		Mukherji, L. N., DIC, PhD <i>Lawd</i> , MSc		Reader
Dabhi-J-Kamli	Lectr			

Yadava, B. P., MSc PhD	
Gopal, R., MSc PhD	
Tewari, S. S., MSc PhD	
Srivastava, T. N., MSc PhD	
Mishra, G. S., MSc PhD	
Bose, A. N., MSc PhD	
Mishra, V. S., MSc PhD	
Pande, C. S., MSc PhD	(on leave)
Rastogi, M. C., MSc PhD	
Srivastava, R. D., MSc PhD	
Khan, M. P., MSc	
Agarwal, R. C., MSc PhD	
Mukherji, D. D.	
Shukla, J. S., MSc PhD	
Sen Gupta, A. K., MSc	
Sanwal, G. G., MSc PhD	
Srivastava, S. B., MSc PhD	
Kulsharma, Y. D., MSc PhD	
Tewari, K. K., MSc PhD	Temp
Kishan, P. R., MSc	Temp
Gupta, S. S., MSc PhD	Temp
Prasad, J., MSc	Temp
Bhargava, H. N., MSc PhD	Temp
Mehrotra, K. N., DrPhilNat <i>Flow</i> , PhD	Temp, Lectr.

## Commerce

Sarkar, K. C., MA PhD	Prof
Lall, R. M., MCom LLB, FCA	Lectr
Senha, I. B., MCom, FCA	Lectr
Saksena, K. K., MCom PhD	Temp
Saksena, P. N., MCom PhD	Temp
Tandon, R. K., MCom	Temp
Saksena, R. C., MCom	Temp
Gupta, H. O., MCom	Temp
Srivastava, B. D., MCom LLB	Temp

## Economics

Singh, B., MA LLB PhD DLitt	Prof
Josh, M. D., MA <i>Alld</i> , DLitt	Reader
Chandra, P., MA	Reader
Khan, N. A., MA PhD DLitt	Lectr
Seth, K. C. G., MA	Lectr
Mishra, S. D., MA <i>Alld</i> , PhD	Lectr
Singh, V. B., MA PhD	
Srivastava, H. G. P., MA BCom LLB PhD	Lectr
Rawat, P. L., MA PhD	Lectr
Banerji, P., MA	Temp
Ahluwalia, R. S., MA	Temp
Srivastava, N. N., MA PhD	Temp
Singh, S., MA	Temp

## Education

Mathur, R. B., BA PhD DPA <i>Laud.</i> , CertEd Camb	Prof
Jha, S. N., BSc MA <i>Agra</i> , LT <i>Alld</i> , EdD <i>Oregon</i>	Reader
Jainwal, S. R., MA EdM PhD <i>Mech.</i>	Reader
Singh, R. P., MA BT <i>Cole</i> , BEdSc	Lectr
Mukherji, L., MA BEd PhD	Lectr
Chaubey, S. P., MA EdD <i>Oregon</i>	Lectr
Gupta, R. P., MA BEdSc MEd	Lectr
Kaur, Mira Sargeet, MA MEd	Lectr
Josh, Miss Deeks, MA MEd	Temp

## English

Mohan, R., MA PhD <i>Leeds</i>	Prof
Narain, S. K., MA	Offg Reader
Chandra, N., MA	Lectr
Jamshaddin, K., MA PhD	Lectr
Sinha, S. M., MA PhD	Lectr
Saxena, P. K., MA PhD	Lectr
Chaturvedi, B. N., MA PhD	Lectr
Manglik, Mrs Mohan, MA	Lectr
Drvit, K. K., MA	Lectr
Chaubey, S. K., MA PhD	Lectr
Mathur, K. C., MA PhD	Lectr
Siddiqui, N. H., MA	Lectr
Srivastava, R. N., MA	Lectr
Mishra, J. B., MA	Lectr
Srivastava, A. K., MA	Lectr
Kachru, B. B., MA PhD <i>Edin</i>	Lectr
Biswas, R., MA	Temp
Pande, I. N., MA	Temp
Kushwaha, M. S., MA	Temp

## French, see Mod. European Langs.

## Geology

Mishra, R. C., MSc PhD	Prof
Tewari, B. S., MSc PhD	Lectr
Singh, S. N., MSc	Lectr
Khanolkar, A. D., MSc <i>Baw</i> , DrRerNat	
Goswami, K. P., MSc	Lectr
Valdiya, K. S., MSc	Lectr
Singh, S. K., MSc	Lectr
Chandra, G., MSc	Lectr

## German, see Mod. European Langs.

## Hindi

Gupta, D. D., MA LLB DLitt <i>Alld</i>	Prof
Shukla, K. N., MA DLitt <i>Baw</i>	Reader
Mishra, B., MA PhD	(on leave) Reader
Agarwal, S. P., MA LLB PhD	Reader
Awasthi, H. K., MA	Lectr
Dakshat, T. N., MA LLB PhD DLitt	Lectr
Tripathi, V. B., MA DPhil <i>Cole</i>	Lectr
Mishra, B. K., MA	Lectr
Dakshat, H. L., MA PhD	Lectr
Tandon, P. N., MA	Lectr
Shukla, Mrs. Sush, MA PhD	Lectr
Agarwal, R. P., MA <i>Cole &amp; Luck</i> , PhD	Lectr
Srivastava, D. N., MA PhD	Lectr
Yadava, S. L., MA PhD	Lectr
Rastogi, R. K., MA <i>Laud &amp; Luck</i> , LLB	Lectr
Shukla, P., MA	Temp
Gupta, B. C.	(Bengali) Lectr
Bhaskar, G. N., MSc LLB	(Mishra) Lectr

## History, see also Anc. Hist. and Archaeol.

Chatterjee, N. L., MA <i>Alld</i> , DLitt PhD	Prof
Mishra, G. S., MA	Prof
Nagar, R. N., MA PhD	Reader
Srivastava, K. C., MA	Lectr
Kashore, B., MA LLB PhD	Lectr

Dube, S P, MA LLB DPA	Lectr	<b>Philosophy and Psychology</b>	
Seth, U D, MA LLB	Temp Lectr	Narain, R, PhD Cal, MA LLB	Offg Prof.
		Dasgupta, Mrs Surana, MA Calc, PhD	
<b>Law</b>		Colt. & Cant	Reader
Shukla, V. N., PhD Lond, BA LLB	Prof	Asthana, H S., MA PhD	Offg Reader
Nigam, S S, MSc LLM	Reader	Loomba, R M., MA LLB	Lectr
Nigam, R C, MA LLB PhD	Lectr	Chandaa, S, MA	Lectr
Tandon, L N, LLM	Lectr	Gon, Miss M., MA	Temp Lectr
Kumari, Miss Shradha, MA LLB Yale	Lectr	Misra, R K, MA	Temp Lectr.
Agarwal, S K, MA LLM	Lectr	Chandaa, Shri, MA PhD	Temp. Lectr
Kumari, Mrs Raj Agarwal, MA LLM Yale	Lectr	Chandaa, Suresh, MA	Temp. Lectr.
Vyas, R. C., LLM	Lectr		
Seivastava, B P, LLM	Lectr.	<b>Physics</b>	
Shukla, V S, MA LLM	Lectr	Sharma, P N, PhD DSc	Prof
Singh, A., LLM	Lectr	Dutt, S. K, MSc	Reader
Pandey, D C, LLM	Temp Lectr	Gokhale, B G, MSc PhD	Reader
Mathai, L N, MA LLM	Temp Lectr	Saraf, J R., MSc PhD	Reader
Kushnan, P G, MA LLM	Temp Lectr	Vachaspati, MSc PhD	Reader
Aroa, G K, LLM	Temp Lectr	Dasgupt, A C, MSc	Lectr
Sharma, B K, LLM	Temp Lectr	Gupta, R C, MSc	Lectr
Redha, V S, LLM	Temp Lectr	Saxena, M C., PhD S'au, MSc	Lectr
Nayya, V N, LLM	Temp Lectr	Sharma, C. B, MSc DPhil	Lectr
Srivastava, K C, LLM	Temp. Lectr	Lal, K C, MSc	Lectr
Srivastava, D C, LLM	Temp. Lectr.	Tandon, R. K, MSc	Lectr
Kumar, U, LLM	Temp Lectr	Joishi, B N, MSc	Lectr
Tewari, R. K., MA MSc LLM	Temp Lectr	Varma, A. S., MSc PhD	Lectr.
		Sah, J. P, PhD Edw, MSc	Lectr
<b>Mathematics and Astronomy</b>		Datta, S N, PhD Manc, MSc	Lectr.
Balabhi, R., MSc PhD	Prof	Madan, M. P, MSc PhD	Lectr
Agarwal, R P, MSc PhD	Reader	Singh, J N, PhD Wark, MSc	Lectr
Shukla, U K., MSc LLB PhD	Reader	Pandya, T P., MSc PhD	(on leave) Lectr
Shukla, K. S., MA DLitt	Reader	Srivastava, R. C, MSc PhD	(on leave) Lectr
Jaiswal, J P, MSc LLB PhD	Reader	Bhattacharya, S R, MSc	Lectr
Rose, S K., PhD DSc	Lectr	Vyas, A., MSc PhD	Lectr
Isaac, M., DU Pwll, MA PhD	Lectr	Pradhan, B P, MSc	Temp Lectr
Chandra, D., MSc	Lectr	Rastogi, N C, MSc	Temp. Lectr.
Misra, D N, MSc	Lectr	Sharma, M. N., MSc	Temp Lectr
Mehra, A. N, MSc	Lectr	Bals, L. M., MSc	Temp Lectr
Srivastava, H M, MA	Lectr		
Upadheya, M D, MSc PhD	Lectr	<b>Political Science</b>	
Chak, A. M., MSc PhD	(on leave) Lectr	Masaldan, P N., MA PhD	Prof
Singh, Mis K D, MA PhD	Lectr	Das, R B, MA PhD	Prof.
Srivastava, R. K, MSc	Temp Lectr	Loomba, A. L., MA	Reader
Singh, D, MSc	Temp Lectr	Chowdhury, L. P, MA PhD	Lectr.
Ravi, S A T, MSc	Temp Lectr	Singh, R, MA	Lectr
		Sharma, J C, MA PhD	Lectr
<b>Modern European Languages</b>		Singh, D P, MA PhD	Lectr.
	(French) Lectr	Misra, K. P., MA PhD	Lectr
Kashyap, Miss Anita, LLD	(German) Lectr	Bora, Miss Uma, MA PhD DPA	Lectr
Bosanova, Miss Anastasia	(Russian) Lectr	Thakur, L D., MA PhD	Lectr
		Awastha, R. N, MA PhD	Lectr.
<b>Oriental Department, see below</b>		Seth, N D., MA	Temp. Lectr.
<b>Persian and Urdu</b>			
		<b>Russian, see Mod European Langs</b>	
Husain, S. E., MA Alld.	(on leave) Lectr	<b>Sanskrit and Prakrit Languages</b>	
Hashmi, N H, MA Abg & Luck.,		Singh, S V, MA PhD DLitt	Prof
PhD Abg, DLitt	Lectr	Banerjee, A. C, MA PhD Lond.	Lectr
Khan, A A, MA Abg, LLB PhD	Lectr	Rastogi, M L, MA	Lectr
Hassan, S S, MA LLB	Lectr.	Trivedi, M. D, MA PhD	Lectr
Husain, R, MA DPhil Alld.	Temp Lectr.	Mazra, S. S., MA LLB PhD	Lectr
Sandhu, S A, MA PhD	Temp Lectr	Sinha, J P., MA PhD	Lectr

Mishra, M., MA PhD	Temp Lectr.	Rastogi, S. C., MSc	Temp Lectr.
Rastogi, N., MA	Temp Lectr.	Verma, M. C., MSc	Temp Lectr.
<b>Sociology and Social Work</b>			
Urdu, see Persian and Urdu			
Mukerji, R. K., MA PhD	Du	Zoology	
Chandra, S., MA LLB	Reader	Lal, M. B., DSc <i>Edu &amp; Lach</i>	Prof.
Hassan, S. Z., MS DSW Col., BA LLB		Das, S. M., DSc	(on leave) Reader
DipSS	Reader	Gupta, P. D., MSc PhD	Reader
Gang, Mis. Sula, MA PhD	Lectr.	Rakshpal, R., MSc PhD	Reader
Sharma, S. R., MA LLB	Lectr.	Tandon, B. K., MSc PhD <i>Monc</i>	Lectr.
Saras, A. K., MA	Lectr.	Premnath, Mis., MSc PhD	Lectr.
Nagendra, S. P., MA	Lectr.	Tewari, H. B., MSc DPhil <i>Alit</i>	Lectr.
Singh, K. K., MA <i>Calif</i>	Lectr.	Gupta, S. P., MSc PhD	Lectr.
Bose, A. B., MSW	Lectr.	Baugh, S. C., MSc PhD	Lectr.
Khundaka, S. K., MSW	Lectr.	Tandon, R. S., MSc PhD	Lectr.
Majumdar, T. K., MA PhD	(on leave) Lectr.	Srivastava, S. C., MSc PhD	Temp Lectr.
Mohan, G. R., MA PhD	Temp Lectr.	Srivastava, R. P., MSc PhD	Temp Lectr.
Varma, S. C., MA PhD	Temp Lectr.		
Mehrotra, G. N., MA	Temp Lectr.		
Ahmad, M. R., MSW	Temp Lectr.		

## ORIENTAL DEPARTMENT

<b>Statistics</b>			
Roy, A. R., MSc PhD <i>Stan.</i>	Prof	Arabic and Persian	
Ram, S., PhD <i>Parthia</i> , MSc	Lectr.	Alavi, M. R., MA PhD	Lectr.
Lal, K. M., MSc	Lectr.	Hassan, A., MA PhD	Lectr.
Srivastava, M. S., MSc	Temp Lectr.	<b>Sanskrit</b>	
Rav, S. K., MSc PhD	Temp Lectr.	Awasthi, R. P.	Lectr.
		Jha, A.	Lectr.
		Tripathi, A. P., MA	Temp Lectr.

## GANESH SHANKAR VIDYARATHI MEMORIAL MEDICAL COLLEGE, KANPUR

Principal—S. P. Srivastava, MS, FRCS

<b>Anatomy</b>			
Singh, K. B., PhD <i>Edu</i> , MB MS, FRAI	Prof, Hd. of Dept	Gupta, B. K., MB BS, MRCP	Lectr.
Kacker, G. N., MB MS	Reader	Vagpey, G. N., MD	Lectr.
Jain, P. S., MB BS	Lectr.	(Skin & Venereal Dis.)	Lectr.
<b>Dentistry</b>			
Pradhan, A. C., BSc BDS	Lectr.	<b>Obstetrics and Gynaecology</b>	
<b>Ear, Nose and Throat</b>			
Sinha, S. N., MB MS	Reader	Bat, Miss Sunanda, MD BS	Prof, Hd. of Dept.
Gupta, P. C., MB BS	Prof.	Vish, Miss Rama, MS	Reader
<b>Forensic Medicine</b>			
Gupta, P. C., MB BS	Prof.	Agarwal, K. P., MB BS	Lectr.
<b>Hygiene</b>			
Nagvi, S. H. M., MB MPH	Prof.	<b>Ophthalmology</b>	
<b>Medicine</b>			
Nath, K., MD	Prof, Hd. of Dept	Singh, R. T., DOMS <i>Lond</i> , MB BS,	
Agarwal, B. L., MB BS, MRCP	Reader	FRCSed	Reader, Hd. of Dept.
Jain, S. C., MD, MRCP, MRCPed	Reader	Ramdas, I. N., MB MS	Lectr.
Srivastava, J. R., MD	(Paediatrics) Reader	Singhal, K. C., MB MS	Lectr.
Sikka, K. K., MD	Lectr.	<b>Orthopaedics</b>	
Paul, D., MD	Lectr.	Gupta, A. K., MChOrth <i>Lond</i> , MB MS,	
		FRCS	Reader, Hd. of Dept.
		Gupta, Y. N., MB MS	Lectr.
		Nand, S., MB MS	Lectr.
<b>Pathology</b>			
		Tyagi, G. K., MD BS	Prof, Hd. of Dept.
		Samuel, K. C., MD BS	Reader
		Nayyar, Miss Hari, MD BS	Lectr.

Rayvaishi, V. S., MB BS	Lectr	<b>Radiology</b>	
Saraya, A. K., MD BS	Med Officer, Blood Bank	Saxena, O. N., DMRT Lw, MB BS DMRE	Reader, Hd of Dept of Lectr
		Mathur, K. C., MB BS DMRE	
<b>Pharmacology and Therapeutics</b>		<b>Surgery</b>	
	Prof	Srivastava, S. P., MB MS, FRCS	Prof, Hd of Dept
Misra, S. S., MD BS	Reader, Offg. Hd of Dept	Krishna, G., MB BS, FRCS	Prof
Srivastava, M. C., MD BS	Lectr	Gupta, R. L., MB BS, FRCS	Reader
		Bhatnagar, K. K., MB BS, FRCS	Reader
<b>Physiology</b>		Sharma, M. C., MB MS	Lectr
Kapoor, S. R., MD BS	Prof., Hd. of Dept	Palwal, Y. D., MB MS	Lectr
Sai, B. K., MSc PhD	(Biochem.) Reader	Rozden, J. L., MD BS	Lectr
Bhatnagar, V. M., MD BS	Lectr	Chandia, J., MB BS DVD	Lectr
Mehrotra, B. N., MD BS	Lectr	Upadhyay, P., MS, FRCS	Lectr
.. ..	Lectr	<b>Tuberculosis</b>	
		Mital, O. P., MD TDD, FRCP	Reader
		Narang, R. K., MD	Lectr

## ISABELLA THOBURN COLLEGE (Women)

Principal—Eva I. Shipstone, MA Vanderbilt, PhD Harv &amp; Radcliffe, DT

<b>Chemistry</b>		<b>Mathematics</b>	
Wallace, Miss W., BA Mfin, AM Col., PhD	Reader	Chandapillai, Miss A., MA LT PhD	Lectr
Verma, Miss Sharda K., MSc	Lectr.	Harris, Barbara, MA	Lectr.
David, Josephine, MSc	Lectr	<b>Persian and Urdu</b>	
Belson, Fimrose, MSc	Lectr	.....	Lectr.
<b>Economics and Sociology</b>		<b>Philosophy</b>	
Misra, Miss K., MA	Lectr	Williams, Miss L. V., MA Ohio	Lectr.
<b>Education</b>		Shankle, Miss M., MA DT	Lectr.
Wilson, Miss M. D., MED Pama, BA DT	Reader	Kumar, Miss U., MA	Lectr.
Roy, Miss B., AM EdD Harv	Reader	Shipstone, Miss E., BA	Lectr.
Bale, Mrs. Marie F., MA PhD	Temp Reader	Berry, Miss E., MA	Lectr.
Paul, Miss B. C., MED	Lectr.	<b>Physics</b>	
<b>English</b>		Zutsha, M. N., MSc LT	Lectr.
Dimontt, Miss M. A., BA DePauls, MA Wellesley	Reader	<b>Political Science</b>	
Sommerville, Miss M., MA		Wanchoo, Miss V., MA	Lectr.
PhD New Mexico	Lectr.	<b>Sanskrit and Prakrit Languages</b>	
Shukla, Miss V., MA	Lectr.	.....	Lectr
Gamber, Miss A., MA	Lectr.	<b>Sociology, see Econ.</b>	
Adishah, Miss S., MA	Lectr.	<b>Urdu, see Persian and Urdu</b>	
<b>Hindi</b>		<b>Zoology</b>	
Bhatnagar, Mrs. Hem, MA	Lectr.	Mathew, Miss A., MA	Lectr
<b>History</b>		Dutt, Noreen, MSc	Lectr
Johnson, Miss S. E., AM Col.	Reader		
Sahney, Miss Vimala, MA	Lectr		

## JUBILEE GIRLS' COLLEGE

Principal—Miss B. Datta, BA Teacher's Cert Lond.

Vice-Principal—Miss S. Choudhury, MA BT

Roy, Miss Lalita S	Lectr.	Das, Miss Bibha, MA BT	†Lectr.
Kapoor, Mrs Padma	Lectr.	Bagchi, Ruby, MA	†Lectr.
Banerji, Miss Nalina	Lectr.	Roy, Miss Kamla R, MA MEd	Lectr.

## KANYA KURJA COLLEGE

Principal—M. G. Misra, MSc BT

Botany and Geology		Geology, see Bot and Geol	
Majumdar, S. S., MSc LT	Lectr.	Mathematics	
Bhattacharya, S. P., MSc	Lectr.		
Chemistry		Dikshit, K. L., MA	Lectr.
Misra, M. G., MSc BT	Lectr.	Nigam, R. C., MSc	Lectr.
Chaturvedi, I. R., MSc	Lectr.	Physics	
Dikshit, R. C., MSc	Lectr.	Pandey, S. K., MSc BT	Lectr.
Varma, I. D., MSc	Lectr.	Vaish, K. N., MSc LT	Lectr.
English		Zoology	
Chatterji, N. C., MA	Lectr.	Misra, V. R., MSc	Lectr.
Shukla, B. L., MA	Lectr.	Srivastava, R. P., MSc	Lectr.

## KANYA KURJA VOCATIONAL COLLEGE

Principal—J. G. Misra, MA LT

Misra, J. G., MA LT	Lectr.	Shukla, G. S., MA LT	†Lectr.
Misra, R. N., MA LT	Lectr.	Tewari, R. C., MA	†Lectr.
Misra, Gangi Samsa, MA BT	Lectr.	Sinha, J. P., MA	†Lectr.
Thakur, L. D., MA	Lectr.	Bagai, J. N., MA	Lectr.
Misra, R. K., BCom MA	Lectr.		

## KARAMAT HUSAIN MUSLIM GIRLS' COLLEGE

Principal—Miss Wasimunnisa Afridi, MA DT

Economics and Sociology		History	
Sahni, Mrs Hamida, MA BT	Lectr.	Naqvi, Mrs Hamida, MA	Lectr.
		Persian and Urdu	
		Zaher, Mrs, Sajjad R., MA	Lectr.
English		Philosophy	
Afridi, Miss Wasimunnisa, MA DT	Lectr.	.....	Lectr.

## KING GEORGE'S MEDICAL COLLEGE

(Telephone : 2202)

Principal—Professor R. V. Singh, MS, FRCS

Anatomy		Omar, B. K., MB BS	Temp. Lectr.
Narayan, D., MB MS	Prof	5 Sr Demos, 2 Jr Demos.	
Varma, H. C., MB MS	(on leave) Reader	Ayurvedic	
Das, A. C., MB MS	Offg Reader	Shukla, G. D., MA MS	Principal, Ayurvedic Section
Dube, N., MB MS	Lectr.		
Jha, M. R., MB MS	Lectr.		
Halma, A., MB MS	Lectr.	Shukla, S. D., MA MS	Reader

Chaudhary, K. R., FRCS	(Surg.) Reader
Hansraj, MB BS	(Ophthalmol.) Reader
Kapoor, Mrs. H. B., MB BS	†Reader
Singh, R. S., BA	Lectr.
Battacharya, P. K., MB BS	Lectr.
Shastri, B. D., Ayurvedacharya	Lectr.
Sharma, A. D., MA	Lectr.
Tewari, C. M., MB BS DCP	Lectr.
Swaroop, G., MB BS DCP	Lectr.
Sharma, V. K., BA	Lectr.
Sharma, Miss Radha, MB BS	Lectr.
Arona, K. L., MB BS	Lectr.
Sharma, K. D., MB BS	Lectr.
Savarna, R. K.	Lectr.
Jain, P. C., Shastri	Lectr.
Misra, R. N., MA	Lectr.
Chauhan, D. K., MSc	Lectr.
Kaushik, B. M., MSc	Lectr.
3 Demrs.	

**Dentistry**

Chavla, T. N., BSc BDS Paq., MS	Prof.
Chaudhary, K. P., BDS Paq.	Reader
Nanda, R. S., BDS Bow., PhD	Reader
Gupta, H. D.	Lectr.
Rev. R. K., BDS	Lectr.
Bhargava, K., BDS MS	Lectr.
Munihar, M. N., BSc BDS, FDSRCS	Lectr.
Bhandwaj, A. K., BDS	Temp. Lectr.
Srivastava, A. N., BDS	Temp. Lectr.
4 Sr. Demrs., 1 Hon. Demr., 1 Anaesthetist†	

**Diseases of Ear, Nose and Throat**

Misra, R. N., MB BS DLO	Prof.
Bhatia, M. L., MB BS DLO	Reader
Deyal, D., MB BS	Lectr.

**Forensic Medicine**

Misra, S. S., MS	†Prof.
Chandra, J., MD BS DMRE	Lectr.
Kumar, B., MD	Temp. Lectr.

**Medicine**

Misra, S. S., MD, FRCP	Prof.
Kunwar, K. B., MD LLB	
(Pathol., Med. & Pharm.) Offg. Prof.	
Gupta, N. N., MD	Prof.
Chakravarty, S. N., MD	Reader
The Supt., Mental Hosp., Agia	
Teacher in Mental Diseases	
Misra, R. N., BSc MD BS	Reader
Tandon, O. P., MD	Reader
Gupta, R. N., MB BS	(Dermatol.) Lectr.
Wig, N. N., MD BS (Neuropsychiatry)	Lectr.
Rastogi, V. S., MB BS	
(on leave) (Neuropsychiatry) Temp.	Lectr.
Bhatia, K. B., MD BS	Lectr.
Singh, B. N., MD	Lectr.
Dikshit, S. K., MD	†Lectr.
Pandey, R. S., MD	Temp. Lectr.

**Obstetrics and Gynaecology**

Engineer, Miss A. D., MD, FRCOG, FRCS	Prof.
Kutty, Miss Devaki, MB BS Lond.	Reader
Mukerji, Miss M., MD	Temp. Reader
Varma, Miss Leela, MS	Lectr.
Mehra, Mrs. Pabha, MB BS	Temp. Lectr.

**Ophthalmology**

Gupta, S. P., DOMS Lond., MB, FRCSEd	Prof.
Khanna, Capt. V. N., MB BS DTM DO	
DOMS	Reader
Mehra, M. K., MB BS	Reader
Garg, K. C., MB BS, FRCSEd	Lectr.
Savarna, R. C., MB MS	Lectr.

**Orthopaedics**

Sinha, B. N., MB BS, FRCS	Prof.
Goel, M. K., MB MS	Reader
Srivastava, A. N. S., MB MS	Lectr.

**Pædiatrics**

Sharma, N. L., DTM DPH Cok., MB BS	Reader
Bagga, P. C., MRCPEd	Lectr.
Dikshit, M. D.	(on leave) †Lectr.
Savarna, P. N., MB BS DCH	†Lectr.

**Pathology**

Gupta, S. P., BSc Bau., MD DipBact Lond.	Prof.
Gupta, N. P., MD DipBact Lond.	
(on leave) Reader	
Mehrotra, R. M. L., PhD Lond., MD	Temp. Reader
Wahal, K. M., MD DSc	Lectr.
Kumar, A., MSc DPhil	Lectr.
Paul, Miss Sharada D., MD BS	(on leave) Lectr.
Chandra, D., MB BS	Temp. Lectr.
Gupta, Miss Usha, MB BS	Temp. Lectr.
1 Sr. Demr., 4 Jr. Demrs	

**Pharmacology**

Bhargava, K. P., MD	Prof.
Saxena, P. N., MD	Temp. Reader
Kohli, R. P., MD	Temp. Reader
Dhawan, B. N., MD BS	Lectr.
Gupta, G. P., MB BS	Temp. Lectr.
2 Sr. Demrs., 2 Jr. Demrs., 1 Pharmaceutical Chemist	

**Physiology**

Shukla, R. C., MD	Prof.
Kumar, S., MD BS PhD	Reader
Malaviya, B. K., MSc DPhil Alld	Reader
Prasad, J., MD MS	Temp. Reader
Tandon, G. S., MD BS	Lectr.
Garg, S. K., MD BS	Lectr.
Khanna, D. N., MB BS	Temp. Lectr.
4 Sr. Demrs., 2 Jr. Demrs	

**Radiology**

Lal, B., DMRT Lév., MD DMRE	
(Radio-Therapy) Prof.	

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Kumar, A., MD BS DMRE	Reader	Chen, A., MB MS	Pr
Rastogi, G C, MB BS	Temp Lectr	Chandra, T, MS, FRCS	Read
Agarwal, S K, MSc	(Radio-Phys) Lectr.	Sharma, R N, MB MS, FRCS	Read
<b>Social and Preventive Medicine</b>			
Prasad, B G, MD DPH DTM	†Prof.	Dubey, P C, MS, FRCS, FRCSEd, FRFPGlas	Read
Behadury, T, DPH MPH	†Reader	Gupta, R N, MB BS (Venereal Dis)	†Lect
Jain, P. C., MSc	Lectr.	Sahu, R P, MB BS	Lect
Bagchi, S C, MD MS DPH	Lectr.	Agarwal, G P, MB BS	Temp Lect
a St. Dennis			
<b>Surgery</b>			
Misra, S C, MB BS, FRCS	Prof	<b>Tuberculosis</b>	
Singh, R. V., MB MS, FRCS	(Chn S) Prof	Mathur, J B L., MD	Pro
		Khanna, B K, MD BS	Lect
		Chawley, C K, MB BS	Temp Lect

## LUCKNOW CHRISTIAN COLLEGE

Principal—C. M. Thacker, MA PhD LLD TDip

<b>Botany</b>		Appasamy, K., MA BD	Lect
Nigam, M. P., MSc	Lectr.	Jordan, I A., MA	Lect
Dhruv, G. N., MSc LLB	Lectr.	<b>Mathematics and Statistics</b>	
<b>Chemistry</b>		Sunastava, R S. L., MSc	Lect
Chowlin, E. H., MSc LT	Lectr.	Townson, R P, MSc	Lect
Sinha, A K, MSc	Lectr.	<b>Physics</b>	
Morrison, J. I., MSc	Lectr.	Mundie, N. K., MSc PhD	Lect
Lal, D D, MSc	Lectr.	<b>Zoology</b>	
<b>English</b>		Jordan, B L, MSc <i>Alld</i> , MA Tor	Lect
Thacker, C. M., MA PhD LLD TDip	Lectr.	Nigam, H C, MSc	Lect

## MAHILA VIDYALAYA COLLEGE (Women)

Principal—Miss Kanchanlata Sebarwal, MA Patna, PhD

<b>Economics and Sociology</b>			
Vargese, Mrs S., MA	Teacher	<b>Hindi</b>	
		Srivastava, Miss R K, MA	Lect
		Singh, Miss R., MA LLB	Lect
<b>Education</b>			
Chaturvedi, Miss V., MA MEd LT	Lectr.	<b>History</b>	
Basu, Miss Baro, MA MEd	Lectr.	Srivastava, Mrs. Rameshwari D, MA MEd	Lect
Rana, S. M., MA MEd	Lectr.	Sinha, Mrs. C., MA	Lect
Khayasthend, Miss Loele, MA MEd	Lectr.	<b>Mathematics and Statistics</b>	
Vidyaleti, Mrs. Bimla, MA MEd	Lectr.	Bajpai, Miss Saraswati, MA LT	Lect
Srivastava, Miss Malti, BT	Temp. Lectr.	<b>Philosophy</b>	
Srivastava, Mrs. S., MA BT	†Lectr.	Lal, Miss Priti K., MA BT	Lect
<b>English</b>			
Dutta, Mrs. S., MA DT	Lectr.	<b>Sanskrit and Prakrit Languages</b>	
Vyas, Manorama, MA	Lectr.	Tiwari, Mrs. Prashna, MA	Lect
Dutt, Mrs. S., MA DT	Lectr.	Sinha, Mrs. Chandan M, MA	Lect
		<b>Sociology, see Econ. and Social</b>	

INDI/



## SHIA COLLEGE

Principal—S. A. A. Zaidi, MA LT

## Botany and Geology

Vash, S. S., MSc  
Singh, A., MScLectr  
Lectr

## Mathematics

Saran, S., MSc  
...Lectr  
Lectr

## Chemistry

Mathur, J. P., MSc  
Dutt, T., MSc  
Naqvi, A. D., MScLectr  
Lectr.  
Lectr

## Physics

Husain, I., MSc  
Srivastava, R. C., MScLectr  
Lectr

## Zoology

Srinastava, N. N., MSc  
Johri, G. N., MScLectr  
LectrD A V COLLEGE BA, BSc Principal—J R  
Bajpai, MAVIDYANI HINDU COLLEGE BA Principal—  
S C Mukerji, MA CTLOURNA CONVENT GIRLS' COLLEGE BA  
Principal—Mother M DamienKUNIKUNJI GIRLS' COLLEGE BA Principal  
—Mrs Lakshmi Sondhi, MASHASHI BHUSHAN BALIKA VIDYALAYA DEGREE  
COLLEGE. Principal—Miss Lila Vidyant, MA  
BT

## ADMINISTRATIVE AND OTHER STAFF

ASST. REGISTRARS S Shankar, BA, A K  
Raisada, BA (Accounts)ASST. PROCTORS Arts H S. Ashtama, MA  
PhD; S. S. Misra, MA LLB PhD, A. A. Khan,  
MA Alg, LLB PhD, B N Srivastava, MA  
LLB PhD, K Jamsuddin, MA PhD Sci.  
S C Agarwal, MSc PhD, S. N. Singh, MSc  
Med., R. N. Misra, BSc MD BS Law L N  
Tandon, MA LLM. Comm. M. P. Singh, MA  
MCom PhD Women Students. Mrs. Sarla  
Garg, MA PhD

Sn. N.C.C. OFFICER. Capt G Dutt

GANDHI MEMORIAL AND ASSOCIATED HOSPS.  
Supt. M U Khan, DO QANCANNING COLLEGE. Provosts. V N. Shukla,  
PhD Lond, BA LLM (Butler Hall); P. N.  
Sharma, DSc (Subhas Hall); G. S. Varma, PhD,  
FLS (Tilak Hall); K. C. Sarkar, MA PhD  
(Maharadab Hall); H K. Awasthi, MA  
(Habbullah Hall); R. Mohan, MA PhD Lond  
(Narendra Deva Hall); R. B. Das, MA PhD  
(Balsampur Hall); Miss Pratima Ray, MA  
DipRS PhD (Kailash Hall); P N Masaldan,  
MA PhD (MLM S Birla Hall) Med Officer  
B N Mehrotra, MBBS Resident Med Officer  
V Sharma, MB BSISARILLA THORNHURST COLLEGE Chief Warden  
Miss Renee Singh, MA Med G PeabodyJUBILEE GIRLS' COLLEGE Vice-Principal  
... Warden. ... Med. Officer. ....KANTY KUNJA COLLEGE Vice-Principal N C  
Chatterjee, MA Warden L. S. Misra, MA,  
Med OfficerKANVA KUNJA VOCATIONAL COLLEGE Vice-  
Principal GRULL Senkei Misra, MA LLB  
Chief Warden Ganga Saran Misra Med  
Officer A. K. Sen.KARAMAT HUSAIN MUSLIM GIRLS' COLLEGE  
Warden. ... Med Officer T. Chand,  
MB BSKING GEORGE'S MEDICAL COLLEGE Provosts:  
R M L Mehrotra, PhD Lond, MD (Chakravarti  
Hall); H C Verma, MS (on leave) (Gulshan  
Nath Misra Hall); N N. Gupta, MD (Sadan  
Patel Hall); Miss A D Engineer, MD, FRCOG,  
FRCS (Vanya Lakshmi Hall); D Nalaya, MB  
BS (Residents' Hostel)LUCKNOW CHRISTIAN COLLEGE Wardens.  
J Basant, MSc (C L Bare Hostel); C. S.  
Franklin, MA LLB (O C Hostel) Med. Officer  
....MAHILA VIDYALAYA COLLEGE Warden: Miss.  
C V. Khase, MA. Med Officer: Mrs. P Anora,  
MB BSSHIA COLLEGE Vice-Principal. ... Wal-  
den S D Husain Med. Officer. ....VIDYANT HINDU COLLEGE Vice-Principal  
G L Dixit, MA BT Med Officer. ....

## GENERAL INFORMATION

This residential and teaching univ. was established under an act of the provincial legislature passed in Nov. 1920. The authorities of the univ. include a court, executive council, academic council, etc., of reference and fees.

**FACULTIES AND DEANS.** *Arts.* Prof. D. D. Gupta (Hindi), *chem.* Prof. O. P. Gupta (applied), *law*, Prof. V. N. Shukla, *med.* Principal R. V. Singh; *mod. (anc. & mod.)*, Principal G. D. Shukla (Ayurvedic), *sci.*, Prof. M. B. Lal (root).

**LIBRARY.** 192,834 vols. (excluding King George's Med. Coll. and Benares library).

**ADMISSION.** Qualifies for degree courses: *arts or sci.*—inter exam. of an Indian univ. or of the bd. of high school and inter. educn., U.P., or of Rajasthan (incl. Ajmer-Merwara), Central India and Gwalior, or of the bd. of inter. and sec. educn., Dacca, the exam. conducted by the bd. of sec. educn., U.S. of Madhya Bharat, the pre-medical exam. of Delhi univ., the pre-engin. exam. conducted by the pre-engin. exam. bd., the Cambridge higher sch. cert. exam., previous exam. of Camb. Univ., responses of Oxford Univ. Law—degree in arts, sci. or comm. Comm.—commercial dipl. of the Punjab Univ. or the inter. exam. in comm. of the bd. of high sch. and inter. educn., U.P., or of Rajasthan (incl. Ajmer-Merwara), Central India and Gwalior, or the inter. exam. in arts (group B—special) of Delhi Univ. or inter. exam. in group E of the bd. of inter. and sec. educn., Dacca; the inter. exam. of Andhra Univ. in 3 commercial subjs., inter. or BA exam. of any recognized univ. with econ. pt. I of the assoc. exam. of the Indian Inst. of Bankers after passing inter. exam., all-India or dipl. exam. of the all-India bd. of commercial studies, Delhi. *Med.*—degree in sci. of Alga, Alga, Alga, Ben., Bom., Calcutta, Dacca, Delhi, Madr., Mys., Nag., Panj., Panj. (I), Patna or Rangoon taken with chem. and biol. as optional subjs. or, subject to certain conditions, the inter. exam. of Alga, Ben., Panj., Panj. (I), Raj., Nag., Seag., Bom., Patna, Kairi, Delhi, inter. bd. of educn., U.P., or the exam. conducted by the bd. of sec. educn., U.S. of Madhya Bharat; BSc exam. of the Univ. of S. Africa.

**PRIVATE CANDIDATES.** Teachers within a radius of 10 miles from the univ. may be admitted as private candidates.

**FIRST DEGREE.** 2 yrs.—BA pass, BSc pass, BCom, 3 yrs.—BA hon., BSc hon.; 4 yrs. (for med. grade, 2 yrs.)—BDS; 5 yrs.—MB BS, BM BS (in Ayurvedic med.). Lectures are supplemented by tutorial work.

**HIGHER DEGREE.** 1 yr.—BED, MA (after BA hon.), MSc (after BSc hon.), MSW, MED (after BED), 2 yrs.—LLB, MA, MSc, MCom, MED, LLM (after LLB), PhD (in arts, sci., comm., by res.); 3 yrs. after MB BS—MD, MS,

3 yrs. after LLM—LLD, 5 yrs. after PhD—DLitt, DSc.

The LLD, DLitt, DSc may also be conferred as HONORARY DEGREES.

**DIPLOMAS.** French, German, Russian, Arabic, Persian, Sanskrit, Bengali, Marathi, Tamil 2 yrs. each. Pub. admin. 2 yrs. for undergrads, and 1 yr. for grads. Foreign affairs & diplomacy, phys. educn., educn. psychol., appl. anthropol., psychol., med. radiol. & electricity, laryngol. & otol., gynecol. & obstet., teaching, Arabic, Persian, Sanskrit, military sci., tuberculosis dis., ophthalmic med. & surg., clin. pathol., orthoped. surg. 1 yr. each.

**CERTIFICATES.** Certs. of proficiency in French, German, Russian, Arabic, Persian, Sanskrit, Bengali, Marathi, Tamil 1 yr. each.

**ORIENTAL TITLES.** Fard-i-Adab, Fard-i-Tafus (in Arabic), Dabir-i-Kamil, Dabir-i-Mahmud (in Persian), Acharya, Shastri (in Sanskrit), each 2 yrs.

**FEES for tuition per session.** BA pass and hon., or BCom, Rs. 144; MA, MCom or LLM, Rs. 180, MB BS, Rs. 200, BDS, Rs. 300, and BM BS, Rs. 200, dipl. in med. radiol. & electricity, laryngol. & otol., gynecol. & obstet., tuberculosis dis. and orthoped. surg., Rs. 400 for med. grade, from colls. other than Lucknow, Rs. 300 for med. grade from King George's Med. Coll., Lucknow; BSc pass and hon., or MED, Rs. 180 (geol., Rs. 255), MSc, Rs. 216 (maths), Rs. 180, geol., Rs. 201; LLB, Rs. 180, DSc, Rs. 270; PhD, Rs. 180 (Rs. 270 if work involves use of lab.), BED, Rs. 162, dipl. in military sci., Rs. 18, dipl. in psychol., Rs. 72, dipl. in pub. admin., Rs. 96; dipl. in foreign affairs & diplomacy, Rs. 216, dipl. in French or German or Russian, Rs. 60 for students already on univ. registers and Rs. 120 for others, cert. of proficiency in French or German or Russian, Rs. 48, DOMS, Rs. 300; DCP, Rs. 150.

**ACADEMIC YEAR.** Mid-July to end April. 3 terms. Term dates (approx.). July 16 to Oct. 11, Oct. 27 to Dec. 24; Jan. 8 to April 30.

The usual LANGUAGES of INSTRUCTION are Hindi and English.

**RESIDENCE.** Students are required, unless specially exempted, to live in hostels attached to King George's Med. Coll., Canning Coll., Lucknow Christian Coll., Kanya Kanya Coll., Kanya Kanya Vocational Coll., D.A.V. Coll., Vidyant Hindu Coll. and Shri Coll. for men, Isabella Thoburn Coll., Mahila Vidyalya Coll., Karamat Husain Muslim Girls' Coll. and Jubilee Girls' Coll. for women. There are also univ. halls for women students attached to Canning Coll. and King George's Med. Coll. Fees: for men—Rs. 90 to Rs. 135 per session, according to rooms; for women—Rs. 67 8 to Rs. 90 per session.

according to rooms For provosts and wardens, see  
'Admin and Other Staff', above

Prospectus (annual, Rs. 8 50), *Annual Report*  
(free), *Quinquennial Report of Research Work*  
(free); *Lucknow Univ. Studies*; *Radios Kramul*  
*Mosham Endowment Lectures*

PUBLICATIONS *Calendar* (alternate yrs., Rs. 10);

### THE YEAR 1961

#### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time*	Part-Time
Men .	—	—
Women .	—	—
Total .	13,717	—

Distribution by Faculties *Arts* (incl. educn.),  
6219, *Ayurveda*, 154, *comm.*, 931, *law*, 1680,  
*med.*, 1697; *sci.*, 3036. Total . 11,717

DEGREES AWARDED (1960-61). PhD, 46, DSc,  
1, MD, 41; MS, 34, MA, 551; MSc, 144,  
MCom, 91; MEd, 26; LL.M., 7; LL.B., 531,  
BA (hons.), 14, BSc (hons.), 9, MB BS, 179,  
BED, 139, BA (pass), 1605; BSc (pass), 376;  
BCom, 228, MSW, 41; BDS, 13

DIPLOMAS AWARDED (1960-61) DPA, 29;  
DFA, 1, German, 7; French, 6 Arabic; *Famil-*  
*i-Adab*, 8, *Alam*, 4, *Fazil-i-Tafar*, 11. *Persian* -  
*Dabir-i-Mahur*, 3 *Sanskrit Acharya*, 4; *Shastri*,  
3. *Phys. educn.*, 30; DOrthS, 3; DOMS, 3;  
DCP, 2; DGO, 3; DTD, 2, DLO, 1

\* Separate figures for men and women not available

# UNIVERSITY OF MADRAS\*

Founded 1857

Postal Address : University Buildings, Chepauk, Triplicane P.O., Madras 5, India

Cables and Telegrams : University, Madras

Telephones : Madras 86914, 86822

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PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF MADRAS STATE (*ex officio*)

VICE-CHANCELLOR—SIR A. LAKSHMANASWAMI MUDALIAR, DCL, OBE, Hon. LL.D. *McG. & H.K.*,  
BA MD LL.D. DSc, FRCOG FACS

REGISTRAR—CAPTAIN D. S. MUDALIAR

DEPUTY REGISTRAR—B. M. THEERUNARAYAN, BA *Lowd.*

LIBRARIAN—V. S. MUTHIAH, AMLS *Mick.*, MA LT

## UNIVERSITY TEACHING AND RESEARCH STAFF

(†=Part-Time)

Anthropology		Chemistry	
Gopalakrishnan, M. S., MA MLitt		Prof. Senthappa, M, BA <i>Manc.</i> , PhD <i>Manc.</i> & <i>Lowd.</i> (at Madurai Centre) Prof	
		Swaminathan, S, BSc PhD III. (Org. C) Prof	
		Jenardhanan, P. B, MA PhD	
		(Inorg. & Analyt. C) Prof.	
		(Phys. C) Reader	
		Arumugam, N, BSc PhD	
		(at Madurai Centre) Reader	
		Ramamugam, V V, MA MSc PhD	
		(Inorg. & Analyt. C.) Reader	
		Thyagarajan, B. S, MSc PhD	
		Ganesan, R, MA PhD (Phys. C) Lectr.	
		Shanmugam, P, MA (Org. C.) Lectr.	
		Mahadeva Ayyar, R., MSc PhD (Phys. C) Lectr.	
Architecture		Commerce	
Dassi, M. G, BA DipArchit, FRIBA	Prof.	Sundaramurthy Mudaliar, V, MA BL	†Prof.
Soyup, R. R	Reader	Ramadas, R., BCom	Reader
Ganesanmuthy, C. M., BE	Lectr.		
4 Studio Assts		Co-operative Banking and Agricultural Finance	
		Krishna Rao, B., BA MLitt	Reader
Biochemistry		English	
Shanmugasundaram, E. R. B, MA PhD	Prof.	Jayaraman, T, BA	Lectr.
Narasimhamurthy, P. V, MA MSc	Lectr.		
Motling, D. B., MSc PhD	Lectr.	Geography	
Botany		Kuriyan, G, BA BSc PhD <i>Lowd.</i>	Prof.
Sadanvan, T. S., DSc PhD <i>Lowd.</i>	Prof.	Srinivastava, H. P., MA PhD <i>Flor.</i>	Lectr.
Deenachari, T. V, MA MSc PhD	Reader		
Saraswati Devi, MSc, BSc PhD	Reader		
Badrin, R. S., MA PhD	Lectr.		
Kalyanasundaram, R., MA PhD	Lectr.		
Subramanian, D., PhD	Lectr.		
Lakshmanan, B. R, BSc PhD	Lectr.		
Business Administration		Geology	
Krishna Rao, G. V, MBA <i>Col.</i> , MA BL	Prof.	Jagpathy Naidu, P. R., MSc DPhil <i>Borde.</i>	Prof.
Sivagnanam, R. V. R., BCom BL MBA	Reader	Leelananda Rao, N., MSc PhD	Reader

\* Member of the Association of Universities of the British Commonwealth

Abdur Rasheed, D, BSc PhD  
Rajasekaran, K. C., MSc  
Jacob, S. C., MSc

Reader  
Lectr  
Lectr  
Srinivasan, R., MSc PhD  
Somaselvan, V., MSc PhD  
Thyagaraja Rao, S., MSc

Lectr  
Lectr  
Lectr

### Indian Economics

Shannugasundaram, V., MA MLitt  
Bhag Singh, D., MA PhD  
(at Madurai Centre) Prof  
Joseph, S. C., BLitt Oxon, MA MLitt  
(at Madurai Centre) Reader  
Gajalakshmi, M., MA MLitt  
Samuel, A., MA

Prof  
Reader  
Lectr  
Lectr  
Bhaskaran, R., MA  
Arumuchalaparamal, C., MA LLB PhD  
Ramanathan, S., MA  
Jameel Ahmed, R., MA  
Balachandran, G. V., MA

Res Asst, Lectr

### Indian History

Kanakasabapathy Pillai, K., MA DLitt  
DPhil Oxon.  
Arokiyaswami, M., MA PhD  
Subramanian, N., MA PhD  
Ramaschandran, C. E., MA  
Bokhara, S. A. R., MA

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr

### Indian Music

Viswanathan, T., BA  
Isaac, Miss Light, BA MLitt

Reader  
Res Asst, Lectr.

### Indian Philosophy

Mahadevan, T. M. P., MA PhD  
Devaramapathi, V. A., MA PhD  
Sundaram, P. K., MA

Prof.  
Reader  
Lectr

### Legal Studies

Rama Rao, T. S., BSc ML  
(Internat. & Constit. Law) Prof  
Ramaseshan, V., MA ML

Lectr

### Library Science

Krishna Rao, D. B., MA MSc PhD  
Gangadara Rao, P., MALibSc Madras, BSc  
Tyaganatarajan, B. A., MSc Col  
Thirumelmuthuswamy, M. A., DipLibSc

Prof  
Reader  
Lectr.  
Lectr

### Mathematics

Krishnan, V. S., MA DSc BT  
Venkatesan, M., MA PhD  
(at Madurai Centre) Prof.  
Balachandran, V. K., BA PhD  
Parameswaran, M. R., MA MSc  
(at Madurai Centre) Reader  
Sivasubramanian, S., MA MSc PhD  
Rambhadrachari, N., MSc  
Iqbal Hussain, M. A., BA

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.

### Physics

Rameshchandra, G. N., MSc PhD Camb.,  
DSc  
Chandrasekaran, K. S., MSc PhD  
(at Madurai Centre) Reader  
Krishnamurthy, V. G., DSc And  
(at Madurai Centre) Reader  
Mathews, P. M., MSc PhD

Prof.  
Prof.  
Reader  
Reader  
Reader

### Politics and Public Administration

Bhaskaran, R., MA  
Arumuchalaparamal, C., MA LLB PhD  
Ramanathan, S., MA  
Jameel Ahmed, R., MA  
Balachandran, G. V., MA

Prof  
Reader  
Lectr  
Lectr  
Lectr

### Psychology

Boss, G. D., MA DPhil Oxon  
Shannagham, T. E., MA MLitt PhD  
Parameswaran, E. G., BA PhD  
Farooq, M. A., MA  
Muthayya, B. C., MA

Prof  
Reader  
Reader  
Lectr  
Lectr

### Statistics

Rajalakshmi, D. V., PhD Mase, MA MSc  
Venkatesan, K. N., BA PhD  
Viswanathan, K., MSc

Prof.  
Reader  
Lectr

### Zoology

Gnanamuthu, C. P., MA DSc  
Krishnan, G., PhD Manc., MA MSc  
(at Madurai Centre) Prof.  
Kishnaswamy, S., MSc PhD Stou  
Job, S. V., MA PhD  
Balakrishnan Nair, N., MA PhD  
(at Madurai Centre) Reader  
Datta Ray, B., MA MSc  
Ramalingam, K., MA PhD

Prof  
Reader  
Reader  
Lectr  
Lectr

## TECHNOLOGY

### Chemical Engineering

Laddha, G. S., ChE PhD Parane, BSc(Tech)  
MSc  
Jayaraman, V. S., BE  
Madhavan Nair, A. P., MA  
(Appl Phys Chem.) Prof.  
Channakesavan, B., BSc PhD  
Ramanujam, V. V., MA MSc PhD  
Vedayan, S., BE  
Manickachandran Pillai, T. K., BA LT  
Subba Rao, M. G., BSc(Tech)  
Subrahmanyam, V., MSc (Inorg Chem)  
Ramadas Rao, U., BSc PhD (Org Chem)  
Jagannadhaswamy, B., BSc(Tech) MSc  
(Indust. Chem) Lectr  
Chandrasekharan, K., BSc(Tech) MSc  
Salluramnam, S., BE  
(Electr. Engin) Lectr  
Devarathan, V., MSc  
(Surveying & Bldg. Centre) Lectr  
Narasimhaswamy, V. R., BA  
(Engl.) Lectr.

### Textile Technology

Krishnamurti, S., PhD Manc., BSc  
BSc(Tech)  
Quannu, R. A., BSc BSc(Tech)  
Mavaniar, S. A. M., MS Raleigh  
Balakrishnan, O. K., BSc (Textile Chem) Lectr

Prof.  
Reader  
Reader  
Lectr

ORIENTAL RESEARCH INSTITUTE  
(4 Sections—Sanskrit, Dravidian, Islamic, Hindi)

Arabic, Persian and Urdu		Sanskrit	
Usha, A. H. S., BA	(Persian) Reader	Raghavan, V., MA PhD	Prof
Kottem, M. Y., MA	(Urdu) Reader	Kunjuraj Ragh, K., MA PhD	Reader
Hag, M. A., MA MLitt	(Arabic) Lectr	Subramanya Sastri, S., BOL MA	Reader
Hindi		Tamil	
Naidu, S. S. R., MA PhD	Reader	Varadarajan, M., MA MOL PhD	Prof
Ganesan, S. N., MA PhD	Lectr	Dorn Rangaswamy, M. A., MOL PhD	
		(at Madurai Centre) Prof	
Kannada		Purusothama Naidu, B. R., Vidvan	Reader
Marappa Bhat, M., MA LT	Prof	Rajamangalakam, N., MA MOL PhD	Reader
Shankar Kedavala, A., MA BT	Lectr	Sangeeta, N., MA	Lectr
		Sundaresan, A. I., BOL MA MLitt	(at Madurai Centre) Lectr
Malayalam		Telugu	
Krishnan Nayar, S., MA PhD	Reader	Venkata Rao, N., MA	Reader
Ezhuthachan, K. N., MA	Lectr	Ramaiahna Sastri, S., MA BOL	Lectr

### ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar: P. S. Vaidyanathan, BA	G. Dharmarajan, MA Owar	Med. Officer
DCom Sec., Students' Information Bureau.	R. J. Rajasekara Reddy, MS	

### CONSTITUENT POSTGRADUATE COLLEGES

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**MADRAS, Pachayappa's College, Madras, 10** (tel. 61244). (Recognized in postgrad. courses in econ., hist., maths, physics, comm., Tamil, Telugu.) Principal—C. D. Rajeswara, BSc (Econ.) Lond. Profs. and Asst. Profs.: 107—V. S. Sundaralingam, MSc. CHEM.—S. P. Shanmuganathan, MA MSc PhD. COMM.—C. V. Kothiy, MCom. ECON.—C. D. Rajeswara, BSc (Econ.) Lond. ENGL.—W. V. Venkata Rao, MA. FRENCH—M. S. Jotha, MA. HIST.—P. Shanmugam, MA. TAMIL—A. M. Palanisami, andam, BOL MA. TELUGU—S. Ramalinga Sastri. HINDI—P. V. Chalapateeswara Rao, MA.

SANSK.—A. S. Muddala, MA. MAJHS—T. S. Sankaranarayana Pillai, MA, A. Ramasubban, MA. PHYS.—P. C. Munuswamy, MA. PHYS.—V. P. N. Nambiar, MA. ZOOL.—J. P. Balasubrah 87 other Teachers.

**MADRAS, Presidency College, Madras, 5** (tel. 86188). (Recognized in postgrad. courses in bot., chem., econ., Engl. lang. & lit., geog., geol., hist., maths, phys., pol., psychol., Sansk., Tamil, Telugu, zool.) Principal—T. R. Govindachari, MSc PhD, FNI. Profs.: 107—B. G. L. Swamy, DSc. CHEM.—T. R. Govindachari, MSc PhD, FNI. ECON.—S. Velayudham, MA LT. ENGL.—S. Ramaswami, MA. GEOG.—U. Jamal Mohamed, MSc LT. GEOL.—P. S. G. Dowse, MA. HIST.—M. S. S. Chetty, BA LT. MATH. AND STAT.—P. V. Abdulrahman, MA BT PhD. PHYS.—S. Ramaswamy, BSc LT. SANSK.—Theogaradasa-bandam, MA LT. TAMIL—K. M. Sundaram, MA MLitt. TELUGU—D. Chinnaiah, BA. ZOOL.—P. M. Annemalai, MA MSc. 125 other Teachers.

**MADRAS, Queen Mary's College** (tel. 84115). (Recognized in postgrad. course in geog., Tamil.) Principal—Miss A. R. Iyeranthi, BA BEd PhD. ENGL.—Miss L. Thomas, MA LT. TAMIL—Miss V. K. Chandrakumari, MA. TELUGU—Miss Y. Sarojini, MA. SANSK.—Miss K. S. Uma, BA LT. FRENCH—Miss D. Searat, BA LT. HINDI—Miss A. Jaya, MA BT. ECON.—Miss Mahamooda

Khadri, MA LOGIC—Miss R Kulpagam, MA. OBOE.—Mrs. R Radha, MA LT MATHE—L Doraisundaram, BSc. CHEM.—Miss C. Kamala, BSc BT PHYS.—P Rangarajulu, BSc NAT. SCI.—Mrs. T Chacko, MA INDIAN MUSIC—Miss S Parvathy, MLitt LT HOME SCI. AND HOUSEHOLD ART—Mrs Stella Soundararajan, MSc. 64 other Teachers.

MADRAS, *Stella Maris College* (tel. 71503). (Recognized in postgrad. courses in econ., Engl., Indian music, soc work.) Principal—Rev M M Carla Rosa CHEM.—Miss S Visalakshi, MSc BT. ECON.—Rev M M. C. Rosa, PhD; Rev. M. M. Sylvester, MA ENGL.—Rev M M. L. Teresa, BA Boston; Rev. M M. Rita, MA FRENCH—Sr M. Chappellaine. HINDI—Miss K Rajeswari, MA. MATHE—Rev M M. Magdeline, BA INDIAN AND WESTERN MUSIC—Rev M M David; Miss S Seetha, BA MLitt ZOOL.—Rev M M Edwin, BA BSc 48 other Teachers.

MADRAS, *Vivekananda College* (tel. 71057). (Recognized in postgrad. courses in maths, chem., philos., Sansk and econ.) Principal—T R. Raghava Sastri, MA ENGL.—G N. Seshadri, MA LT MATHE.—S Narayanan, MA, T R. Raghava Sastri, MA PHLOS.—S Rajagopala

Sastri, MA LT PHYS.—M Narayanaswami, MA SANSK.—V S V Chari, MA BOL BT TAMIL.—C Jagannathachari, MA LT TELUGU.—N. Bhaktiravatsalam, MA BOL HINDI.—K. M. Sridar, MA CHEM.—P C Ramchandran, MA. BOT.—G Venkataraman, MA MSc LT. ECON.—K Vasudevan, MA HIST.—R S Chakravathy, MA BL COMM.—A D Reddy, BA LT. 74 other Teachers.

MADRAS, *Women's Christian College* (tel. 56798). (Recognized in postgrad. course in home sci.) Principal—Miss Renuka Mukerji, MA. ENGL.—B M Corfield, MA PhD BS. SCI.—A T. Zachariah, MSc PhD, Miss S Murthy, MSc MA CHEM.—P V Stage, BA PhD, Miss A Kamatchi, MSc. GEOG.—Miss Renuka Mukerji, MA. HIST.—Mrs M Dolan, MA PHLOS.—Miss P Devarey, MS Tennessee, MA, Miss I Sankarasan, MA PHYS.—G S Edwards, MA PhD, Miss A Mathews, MSc TAMIL.—Miss R. Lionel, MA; Miss K Thulasa, BA TELUGU—Miss G Savithri, BA, Miss C. Manoja, BA BT SANSK.—Miss K Jaganmala, BA HINDI—Miss P Naidu, MA HOME SCI.—R Arulanantham, MSc PhD Chic; F. A. Farmer, MSc PhD BHS BS ZOOL.—Miss R. Philip, MA LT; Miss M. Poornan, MA. 39 other Teachers.

## AFFILIATED POSTGRADUATE COLLEGES

COIMBATORE, *P.S.G. Arts College* (Recognized in postgrad. courses in phys., soc work) Principal—B. R. Krishnamurti, MA LT CHEM.—K. Kannappan, MA MATHE—R Hanumantha Rao, MA. PHYS.—P. Thiruganessambandan, MA PhD. STATS.—M. Sankaran, BSc TAMIL.—T. E. Gnanamurti, MA. 6 Profs., 35 Lectrs., 19 other Teachers.

KARAIKUDI, *Alagappa College*. (Recognized in postgrad. course in Tamil.) Principal—A. Gnanasettu, MA BOT.—V. Javalaman, MA MSc. CHEM.—S. Lakshminarayana, MA LT ENGL.—A. Gnanasettu, MA; K. P. K. Menon, MA PhD. ECON.—R. M. Ramenathan, BA. MATHE.—N. Sethuraman, BSc LT. PHYS.—K. G. Krishnan, BSc ZOOL.—J. Samuel Raj, MA MSc TAMIL.—V. S. P. Menickam, MA MOL SANSK.—A. V. N. Sarma, BA HINDI—M. G. V. Krishnan, MA BOL. 12 Profs., 44 Lectrs., 21 other Teachers.

MADRAS, *American College*. (Recognized in postgrad. courses in chem., zool.) Principal—S. J. Sivarajayam, MA BOT.—C. R. Narayanan, BA. CHEM.—M. Lakshminathan, MSc LT. ENGL.—Rev. F. Jacob, MA; Rev. A. G. Samuel, MA. BD *Seaview* ECON.—S. Sundararajan, MA. MLitt MATHE.—T. Natarajan, MA. PHYS.—S. J. Sivarajayam, MA; E. S. Moses, MA. ZOOL.—S. Abraham, MA LT, C. J. George, DIC, BA. 11 Profs., 32 Lectrs., 23 other Teachers.

MADRAS, *Lady Dook College*. (Recognized in

postgrad. course in Engl.) Principal and Prof. of ZOOL.—Miss G. Gnanadickam, MA LT. Profs.—ENGL.—Miss G. Nallathampi, MA. TAMIL.—Miss D. Theagarajan, MA. MATHE.—Mrs. E. Lavingstone, BSc. PHYS.—Miss M. Kod Pillai, BSc CHEM.—Miss E. Rhane, MA. BOT.—Miss B. Williams, MSc. PHLOS.—Miss E. George, MA. ECON.—Miss V. Das, MA. 40 other Teachers.

MADRAS, *Madura College*. (Recognized in postgrad. courses in maths, phys. and chem.) Principal—T. T. Ayyangar, MA. BOT.—T. R. Purushothaman, MA. CHEM.—S. Krishnamoorthy, MSc. ENGL.—T. S. Devanarayana, BA. ECON.—P. S. Ramaswami, MA. MATHE.—T. T. Ayyangar, MA, S. Subramanian, MA. PHYS.—P. S. Varadachari, MA MSc; K. S. Venkatesan, MA. ZOOL.—R. Krishnan Iyer, MA. TAMIL.—R. Krishnamoorthy, MA LT. SANSK.—K. S. Narayana, BA. HINDI—T. Seshadri, MA. 10 Profs., 35 Lectrs., 28 other Teachers.

MADRAS, *Thangajal College*. (Recognized in postgrad. courses in Tamil, econ., Engl.) Principal—G. Varadachari, MA. CHEM.—T. Sekhavelu, MA. ENGL.—G. Varadachari, MA. ECON.—S. V. Vaidyanath, MA. HIST.—K. S. Sivarajan, MA. MATHE.—V. Seetharaman, MA. MSc PhD PHYS.—V. R. Ramanathan, MSc PhD. ZOOL.—K. R. Menon, MSc PhD. TAMIL.—S. Ilakkuvanar, MA. 38 Lectrs., 21 other Teachers.

NAGTCHOL, *S.T. Hindu College* (Recognized in postgrad. course in Tamil.) Principal—N.

Ananthavindyanathan, MA. CHEM.—N Ananthavindyanathan, MA. ENGL.—P. R. Annatharasayana, BA. ECON.—C. A. Saldanha, MA. MATHS.—S. S. Muni, MA. PHYS.—D. Parameswaran, MSc. ZOOL.—C. Kumari Pillai, MA. TAMIL.—E. V. Mani, MA. 23 Lectrs, 17 other Teachers

TAMBARAM, *Madras Christian College*. (Recognized in postgrad courses in Engl lang & lit, hist, econ, maths, philos., phys., chem, bot and zool.). Principal—C. Devidesem, MA PhD Profs: BOT—K. R. Venkatasubban, MSc PhD. CHEM.—S. V. Anantakrishnan, MA PhD ENGL LANG AND LIT.—Rev. G. P. David, MA LT. A. Bennett, BA. ECON.—. HIST.—C. D. S. Devanesam, MA CANB. MATHS.—G. Aherlam, MA. PHILOS.—C. T. Krishnamachari, MA PhD PHYS.—M. A. Thangaraj, MA PhD TOR. ZOOL.—H. Enoch, MA. ZOOLOGY.—U. Venkatakrishna Rao, MA. MALAYALAM.—E. K. Purushothaman, MA. TAMIL.—P. A. Chettiar, MA. TELUGU.—P. R. P. Francis, MA. 85 other Teachers

THIRUCHIRAPPALLI, *National College* (Affiliated in postgrad courses in econ., maths) Principal—

V. Ranganathan, BA. Profs: MATHS.—S. Suryanarayana Iyer, MA. PHYS.—S. V. Desikan, BSc CHEM.—T. S. Ramasubramaniam, MA LT. BOT.—N. Natarajan, MA. HIST. AND ECON.—V. Ganapathy, MA. PHILOS.—N. Venkatasubramanian, MA LT. COMM.—B. Gopalan, BA. MCom TAMIL.—T. S. Balasubramanian, MA. 61 other Teachers

THIRUCHIRAPPALLI, *St Joseph's College*. (Affiliated in honours courses in econ., hist., maths, phys., chem., bot.). Principal—Rev. T. A. Mathias, MA. Profs: BOT.—Rev. L. M. Balaram, MA. CHEM.—M. Prakash Reddy, MSc PhD, C. K. Ramakrishnan, MA. ENGL.—Rev. L. Sundaram, BA. HIST. AND ECON.—Rev. J. Adiswaran, BA; M. D. Varkey, MA. T. Srinivasan, MA. LT. A. Hirudayashankar, MA. BL. LOGIC.—Rev. S. Thomas, PhD. MATHS.—Rev. A. Gonsalves, MA. S. Srinivasan, BA. PHYS.—P. R. Subrahmanyam, MA. N. Anantakrishnan, MA. FRENCH.—Rev. A. Faya. MALAYALAM.—T. K. Devassis, MA. TAMIL.—R. Maseenhas, MA. 81 other Teachers

## CONSTITUENT FIRST GRADE COLLEGES

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for Pre-Univ., BA, etc.]

MADRAS, *Agasthyar Maudslayi Jain College*. Pre-Univ., BA, BSc, BCom. Principal—A. L. Krishnam, BA. 6 Profs., 72 other Teachers

MADRAS, *Eyryng College for Women*. Pre-Univ., BA, BSc. Principal—Miss E. Mathew, MA. 5 Profs., 41 other Teachers

MADRAS, *Gout College*. Pre-Univ., BA, BSc. Principal—M. R. R. Unni, MA LT. 10 Lectrs., 72 other Teachers

MADRAS, *New College*. Pre-Univ., BA, BSc.

Principal—A. J. Syed Abdul Wahab Sahib Bukhari, MA LT. 8 Profs., 46 other Teachers

MADRAS, *SLET Women's College*. Pre-Univ., BA, BSc, MSc(HomeSci). Principal—Miss N. Pothan, MA LT. 7 Profs., 56 other Teachers

MADRAS, *Sir Theagaraya College*. Pre-Univ., Pre-Med., BA, BSc. Principal—K. Rangaswami, MA LT. 7 Profs., 49 other Teachers

## AFFILIATED FIRST GRADE COLLEGES

ADIRAMPATTINAM, *K. M. College*. Pre-Univ., BA, BSc. Principal—T. Dhanakoti, MA. 3 Profs., 12 Lectrs., 6 other Teachers

COIMBATORE, *Gout College*. Pre-Univ., BA, BSc, BCom. Principal—T. Munappan, BSc MA MS. 13 Profs., 45 Lectrs., 22 other Teachers

COIMBATORE, *Hansa Science College*. Pre-Univ., BA, BSc. Principal—Mrs. Rajammal P. Devides, MA MSc PhD. 4 Profs., 18 Lectrs., 12 other Teachers

COIMBATORE, *Nirmala College*. Pre-Univ., BA, BSc. Principal—... 1 Prof., 19 Lectrs., 3 other Teachers

ERODE, *Mahalingam College*. Pre-Univ., BA, BSc. Principal—J. Ranga Ayyangar, BA. 4 Profs., 15 Lectrs., 7 other Teachers

KANCHIPURAM, *Pashayappa's College*. Pre-Univ., BA, BSc. Principal—S. Sivasubramanyam, BSc. 2 Profs., 17 Lectrs., 7 other Teachers

KATPADI, *Avadana College*. Pre-Univ., BA, BSc. Principal—Sr. Juliana Fernandez, MA BT. 5 Profs., 12 Lectrs., 11 other Teachers

KOMRAGONAM, *Gout College*. Pre-Univ., BA, BSc. Principal—M. S. Hussain, MA BT. 6 Profs., 34 Lectrs., 23 other Teachers

MADURAI, *Fatima College*. Pre-Univ., BA, BSc. Principal—Mrs. N. Shakunthala, MA. 7 Profs., 25 Lectrs., 12 other Teachers

MATURAM, *A.V.C. College*. Pre-Univ., BA, BSc. Principal—M. Vigneshan, MA. 4 Profs., 16 Lectrs., 13 other Teachers



NAGHCOIL, *Scott Christian College* Pre-Univ., BA, BSc Principal—B Arumai Raj, MA 6 Profs., 31 Lectrs., 18 other Teachers

OTTICAMUNDI, *Gout Arts College* Pre-Univ., BA, BSc Principal—A Rajkannu Mudaliar, MA BOL LT 1 Prof., 5 Lectrs., 25 other Teachers

PALAMCOTTAH, *St John's College* Pre-Univ., BA, BSc Principal—J Vedaromann, MA BL 7 Profs., 23 Lectrs., 15 other Teachers

PALAMCOTTAH, *St Xavier's College* Pre-Univ., BA, BSc Principal—Rev K A Soosai, MA 6 Profs., 30 Lectrs., 10 other Teachers

PALAMCOTTAH, *Sanku Teacher College* Pre-Univ., BA, BSc Principal—Doora David, MA BT 5 Profs., 17 Lectrs., 11 other Teachers

PALANI, *St Palani Andavar College of Oriental Culture* BA Principal—S Aumuga Mudaliar, MA BOL LT 4 other Teachers

POLLACHI, *Nallamutha Gounder Municipal College* Pre-Univ., BA, BSc Principal—M. Alkandan, MA 4 Profs., 17 other Teachers

POONDI (Tanjore District), *St Paulham College* Pre-Univ., BA, BSc Principal—O R Survanarayana, MA 4 Profs., 14 Lectrs., 10 other Teachers

PUDUKOTTAL, *The Royal's College* Pre-Univ., BA, BSc, BCom Principal—C V Ranganatha Sastri 5 Profs., 27 Lectrs., 13 other Teachers

SALDA, *Gout College* Pre-Univ., BA, BSc Principal—V. A. Nair, MA 6 Profs., 30 Lectrs., 16 other Teachers

SALDA, *St Savada College* Pre-Univ., BA, BSc Principal—Mrs. J. Chellam, BA 10 other Teachers

SIVAGANGA, *Rajah Desanayagam Memorial College* Pre-Univ., BA, BSc Principal—B S Dhandapani, MA 4 Profs., 16 Lectrs., 8 other Teachers

SRIVAKURTHI, *K.S Arts College* Pre-Univ., BA Principal—K. S. Ganapathy, 13 other Teachers

TANJON, *Rajah Seiyaga College* Pre-Univ., BA, BSc Principal—T. Murugayan, MA 5 Profs., 23 Lectrs., 15 other Teachers

THUCHIRAPALLI, *Holy Cross College* Pre-Univ., BA, BSc Principal—St Philomena, MA, 8 Profs., 25 Lectrs., 11 other Teachers

THUCHIRAPALLI, *Yasani Mohamed College* Pre-Univ., BA, BCom Principal—M. J. M. Sayeed, MA LT 9 Profs., 29 Lectrs., 21 other Teachers

THUCHIRAPALLI, *Seethalakshmi Ramaniam College* Pre-Univ., BA, BSc Principal—Miss V. Kamakshi, MA BT 33 other Teachers

THIRUNELVELI, *M D T Hindu College* Pre-Univ., BA, BSc Principal—S. Somasundaram, MA LT 7 Profs., 30 other Teachers

THIRUPATUR, *Saved Heart College* Pre-Univ., BSc Principal—Rev V. Onchavel, MA 4 Profs., 22 other Teachers

TUTUCORIN, *St Mary's College* Pre-Univ., BA Principal—St. Teresa Mary, MA BT 5 Profs., 24 other Teachers

TUTUCORIN, *V O Chidambaram College* Pre-Univ., BA, BSc Principal—A. Subramaniam, MA 8 Profs., 44 other Teachers

UDANALPET, *G V G Vimala College for Women* Pre-Univ., BA, BSc Principal—Miss Padma Adishesiah, MA LT 23 other Teachers

UTHAMAPALAYAM, *H K R Howtha College* Pre-Univ., BA, BSc Principal—I. Abuloom, MA 4 Profs., 14 Lectrs., 5 other Teachers

VANIYAMBADE, *Islamiah College* Pre-Univ., BA, BSc, BCom Principal—M. A. Rahim, MA BT PhD 6 Profs., 32 other Teachers

VELLORE (N A District), *Vasudeva College* Pre-Univ., BA, BSc Principal—Rev A. N. Gopal, MA DD 5 Profs., 21 Lectrs., 19 other Teachers

VIRUDHUNAGAR, *Senthilamma Nodai College* Pre-Univ., BA, BSc, BCom Principal—P. Thangarajam, MA 7 Profs., 51 other Teachers

## CONSTITUENT PROFESSIONAL COLLEGES

### Engineering

GUINDY, *College of Engineering* BE, MSc (Engg) Principal—A. Srinivasan, BE MSc MSED, MIE(India), Prof. CIVIL ENGR—V. Kalyanasami, MA Sc Tw., BE, T. S. Venkatesan, BA BE. ELECTR ENGR—A. Srinivasan, BE MSc; N. Subban, MA. PUBLIC HEALTH ENGR—T. Perthasath, BE MS MEDICAL ENGR—A. P. Jambulingam, MSc BE (Mech). TELECOMM. ENGR—K. S. Hegde, BE MA 14 Profs., 31 Lectrs., 65 other Teachers.

### Law

MAERAR, *Law College* BL. Dir of Legal Studies—S. Renganathan, ML Prof., C. Rajaram, MA LLB; A. Palanisamy, BA ML;

V. Balasubramanyam, BSc ML; Mrs. Monica R. David, BA MEd ML 14 other Teachers.

## Medicine

MADRAS, *Medical College*. MB BS, MD, MS, BSc, BDS and diploma courses. Dean—K. G. Krishna Srinani, MB BS. Profs. and Teachers: ANAESTHETIC—V. Rajagopalan, MB BS. ANAT.—M. M. Cooper, MB BS MSc BACTERIOL.—N. R. Ramakrishnan, MB BS. BIOCHEM.—N. Verghese, MB BS MSc BSNR SURG.—D. C. Nigiani, MSD. EYE, NOSE AND THROAT—C. Satyanarayana, MB BS DLO. FORENSIC MED.—C. B. Gopalakrishnan, MD BS. HYG.—H. Moses, MB BS BSc MSc DTM MPH. INFECT. DIS.—A. Haid, MB BS. MED. JURIS.—K. C. Jacob, MD. MED.—R. Subramanian, MD, MRCP. MENTAL DIS.—Miss Seenda Menon, MD DPM. NEURO-SURG.—B. Ramaswamy, MS, FRCS, FACS. OBSTET. & GYNACOL. AND DIS. OF CHILDREN—M. K. Krishna Menon, BA MD DGO. OPHTHALMOL.—T. T. Ramalingam, MB BS DO. ORTHOPAEDICS—M. Nambayyan, MChOrth. Lw., BA MB BS, FRCS. PEDI.—S. T. Acher, MD, FRCP. PATHOL.—S. P. Vedachalam, MD MS PHARMACEUTICS—K. S. Srinivasavaradhan, MSc LT MA. PHARMACOL.—A. R. Govinda Rao, MB MS. PHYSIOL.—K. P. Anandam, MB BS MSc. RADIOLOG.—Y. Sadique, MB BS DMR, FFR, SOC AND PREV MED.—S. H. Moses, MB BS MSc MPH. SURG.—

G. Atchamma Rao, MB MS. TUBERCULOSIS—M. A. Hamed, MD. VENEREAL DIS.—P. N. Rangiah, MD.

MADRAS, *Stanley Medical College* (tel. 4985). MB BS, MD, MS. Dean—S. Balasubramanian, MB BS. ANAESTHETIC—V. Subbaraman, BA MB BS DA. ANAT.—T. Janardhan, MB BS MSc BACTERIOL.—S. Subramaniam, MD BS DLO. BIOCHEM.—A. N. Ramaswamy, MB BS MSc. CLIMATE.—M. Natarajan, MB BS. EYE, NOSE AND THROAT—Miss C. M. Leelavathi, MD MS DLO. T. Nandagopal, MS DLO. HYG.—M. K. Jacob, MB BS. MED.—K. V. Thiruvengadam, BSc MD BS. MENTAL DIS.—Miss Seenda Menon, MD DPM. OBSTET. AND GYNACOL.—W. J. C. Rebelo, MB BS DGO. OPHTHALMOL.—V. C. Sudarshan, MB BS DO. PEDI.—A. T. John, MD DCH. PATHOL.—Mrs. V. C. Angiah, MD. PHARMACOL.—T. R. Krishnaswamy, MB BS MSc. PHYSIOL.—Mrs. Seenda Subramanian, MB BS MSc. RADIOLOG.—A. N. K. Menon, MS. SURG.—H. D. V. Reddy, MB BS, FRCS. VENEREOL.—P. Natesan, MB BS. 117 other Assist., Tutors, etc.

## Teaching

MADRAS, *Lady Willingdon Training College*. BT, MEd. Principal—Miss S. Panikasan, MA LT. Miss K. Jagathambal, BA LT. 13 other Teachers.

MADRAS, *Merton Training College* (tel. : 84584). BT, MEd. Principal—D. T. Churuvu, MA MEd. Other Profs. : R. J. Victor, MA MEd., A. M. Satyan, MA MEd. 5 other Teachers.

MADRAS, *St. Christopher's Training College* (tel. : 4077). BT, MEd. Principal—Miss G. R. Samuel, MA. Redina, MS. Conf., LT. Prof. R. M. H. S. Charles, MA LT. 11 other Teachers.

SAIDAPET, *Teachers' College* (tel. : 88289). BT, MEd. Principal—M. R. P. Modakar, MA LT. Prof. A. E. Subramanian, BA LT. 17 other Teachers.

## Veterinary

MADRAS, *Madras Veterinary College* (tel. : 3212). BVSc. Principal—B. A. D'Souza, BVSc MS. ANAI—A. Lakshminarasimhan. ANIMAL GENETICS—M. Dharmarajan, MA MSc PhD. Lzo. ANIMAL HUSB.—A. R. Vedanayagam, BVSc. ANIMAL NUTRITION—G. Venkatchalam, BVSc MS PhD. DAIRY SCI.—K. Varma, MSc PhD.

HYG.—R. D. Michael, BVSc. PARASITOL.—M. Ananthaswami, MSc; V. S. Alwar, BVSc BACTERIOL.—U. K. Menon, BVSc DSc. PATHOL.—S. Damodaran, BVSc PHARMACOL.—C. K. Veluvudham. SURG.—F. D. Wilson, BVSc. 83 Asst. Lectrs.

## AFFILIATED PROFESSIONAL COLLEGES

## Agriculture

COIMBATORE, *Agricultural College*. BSc(Ag), MSc, PhD, dipl. in hort. Dean—S. Krishnamurthy, BSc(Ag) MSc PhD. Lectrs. : AGRIC.—T. Natarajan, BA BSc(Ag). AGRON.—A.

Mammulandai, MSc PhD. 807—D. Daniel Sundararaj, MSc PhD. CUM.—F. L. Daniel, BSc ENGLN.—T. S. Pulanavelu, BE. HORTIC.—V. N. Madhava Rao, MSc DIH. 77 Asst.

## Engineering

COIMBATORE, *Govt. College of Technology* BE Principal—P. R. Ramaswami, BE MSc Other Profs.: CIVIL ENGIN.—P. R. Ramaswami, BSc Mech. ELECTR. ENGIN.—K. S. Bhakshandeswari, BSc. MECH. ENGIN.—K. A. Nair, BE 12 Lectrs., 44 Assts

COIMBATORE, *Institute of Technology*. BE Principal—P. R. Ramkrishna, BSc MS MBA CIVIL ENGIN.—M. S. Gopalakrishnan, BE ELECTR. ENGIN.—R. G. Janakiaman, BE MSc MECH. ENGIN.—K. P. Guri, BE MATHS.—G. V. K. Reddy, MSc 14 Lectrs., 29 other Teachers

KARAIKUDI, *Dr Alagappa Chettiar College of*

*Engineering & Technology*. BE Principal—D. S. Venkanna, BSc BE, 67 other Teachers

MADRAS, *Thiagarajar College of Engineering* BE. Principal—R. Natesan, BE CIVIL ENGIN.—A. Krishnamoorthy Iyer, BE ELECTR. ENGIN.—M. Mani Louis, BA MAsC. MECH. ENGIN.—V. Subbaraman, BSc 51 other Teachers

PEELAMEDU (Coimbatore District), *P.S.G. & Sons Charities College of Technology*. BE Principal—G. R. Damodaran, BSc Durh. CIVIL ENGIN.—V. Ramakrishnan, BE PhD ELECTR. ENGIN.—R. Subayyan, MA MSc MATHS.—B. Rameswara Rao, MSc PhD MECH. ENGIN.—G. Shanmugan, BE DSS MS. 12 Lectrs., 21 other Assts.

## Medicine

MADRAS, *Madhav Medical College*. MB BS. Principal—V. Gnanasudham, MD. BIOCHEM.—T. M. B. Nedungudi, MB BS MSc PHYSIOL.—Mrs S. Parvathy Devi, MB BS MSc. 95 other Teachers.

PONDICHERY, *Medical College*. MB BS Principal—S. G. Vengasakar, MD BS. 72 other Teachers.

VELLORE, *Christian Medical College* MB BS, MD, MS. Principal—J. Chandy, MB BS MSc, FRCS, FACS ANAESTHESIA—Gwendolyn M. Lewis,

BSc MB BCH Wales, FFARCS ANAESTH.—Selah J. Sohal, MB BS PhD DGO BACTERIOL.—Ruth M. Meyers, PhD Chic. EAM, NOSE AND THROAT—A. J. Patil, MD MS MED.—P. Koshy, MD BS NEUROL. AND NEURO-SURG.—J. Chandy, MB BS MSc, FRCS, FACS. OBSTET. AND GYNACOL.—D. Paragothy, MB BS DGO DTM LM OPHTHALMOL.—E. Roy, MB BS PATHOL.—E. W. Gault, BSc MD MS, FACS PHARMACOL.—P. M. Stephen, MB BS MSc PHYSIOL.—D. M. Jefferson, BA MD MSc *Manc.* RADIOLOG.—Ida B. S. Scudder, DMRE Camb., BA MD SURG.—J. D. Carman, AB MD, FRCS 110 Assts

## Nursing

VELLORE, *School of Nursing* BSc(Nursing). Dean—Florence Taylor, MA MSc. 65 other Assts

## Teaching

COIMBATORE, *Govt. Training College for Women*. BT. Principal—Mrs. N. Shanmugasundaram, MA LT. 9 other Teachers.

KARAIKUDI, *Dr Alagappa Chettiar Training College* BT. Principal—P. Duraisannoo, MA LT. Profs.: S. Thiruvengatachari, MA MEd; V. N. Subrahmanyam, BA LT. 8 other Teachers.

KOMARAPALAYAM, *Govt. Training College*. BT. Principal—G. Govindarajan, MA BT. 8 other Teachers

MADRAS, *Thiagarajar College of Preceptors*. BT. Principal—S. A. Jain, MA LT. 11 other Teachers.

ORATHANAD (Tanjore District), *Govt. Sans Training College* B.A. BT. Principal—R. Perumal, BA BT. 9 other Teachers.

PALAYAMKOTTAI, *St. Ignace Training College*. BT. Principal—Mary Stephens, MA BT. 6 other Teachers

PALAYAMKOTTAI, *St. Xavier's Training College*. BT. Principal—Rev. T. Thundiyil, MEd. Prof.: S. A. Pichai, MA LT. 6 other Teachers

PERIYARAKENPALAYA (Coimbatore Dept.), *Sri Ramakrishna Vidyalaya Teachers Training College* BT. Principal—K. Kalandaivelu, MA BT. 9 other Teachers.

PUDUKOTTAI, *Govt. Training College* BT. Principal—R. Arumugam, MA LT. 8 other Teachers

TIERUPPANYATHUR (Tiruchappalli), *Vivekananda Training College*. BT. Principal—S. Krishnan, MA LT. 8 other Teachers.

TUTICORIN, *V.O. Chidambaram Training College* BT. Principal—S. Isaac, MA LT. 7 other Teachers.

VELLORE, *Govt. Training College*. BT. Principal—H. S. S. Lawrence, MA EdD Col. 9 other Teachers

## APPROVED INSTITUTIONS

## Fine Arts

MADRAS, Kalakshetra, Adyar. Recognized for Sangita Suramati course.  
Principal— 5 other Teachers

## Oriental Learning

Three institutions in Madras and 14 in the Madras are recognized as qualified to provide instruction for the Oriental Titles

## Physical Education

KARAIKUDI, Alagappa Chettiar College of Physical Education. Recognized for dipl. course in phys. educn. (DipPE). Principal—M. Robson, BA Trav., MPE Springfield 5 other Teachers

MADRAS (Sendipet), Y.M.C.A. College of Physical Education. Recognized for dipl. course in phys. educn. (DipPE). Principal—S. P. Chopde, BA MPE Springfield 4 other Teachers

## GENERAL INFORMATION

Founded in 1857, the univ. continued to be an examining body till the early part of this century, when it took up also res. and teaching functions. This was given an impetus by the report of the Sadler Commission, and later by the Madras Univ. Act of 1923, which clearly laid down that the univ. would take up the devel. of res. and teaching depts. The univ. is federal, catering for postgrad. studies, and exercising control over the quality of the teaching given by its constituent and affiliated colls. Colls. within a radius of 10 mls. of the univ. are known as constituent colls., the affiliated colls. are spread over the different parts of Madras state. The univ. at present has 30 teaching and res. depts. comprising almost all the facs. Postgrad. teaching has also been organized on an inter-collegiate univ. co-operation basis.

**CONSTITUTION.** The authorities of the univ. consist of the senate, academic council, syndicate, facs. and bds. of studies. The senate is democratic in constitution and is representative of the colls., registered grade, legislature, local bodies, and certain learned socs. and assocns. This is the supreme governing body which considers the annual report and budget and frames statutes. The academic council is the supreme authority which regulates courses of studies and standards of exams., and in general deals with all academic matters which emanate from the syndicate or the bds. of studies. The facs. consist of members of the academic council who are assigned to them, and the bds. of the univ. depts. These facs. generally advise the syndicate on matters referred to it. The bds. of studies form the primary academic body. For each subj. of study, a bd. is constituted consisting of the univ. hd. of the dept., and profs. drawn from the different colls. These bds. meet twice a yr. and advise the syndicate and academic council on courses of studies, prescription of textbooks, and the panel of examiners; they report also on matters academic referred to them. These

recommendations invariably come up before the academic council and before the syndicate. The syndicate is the exec. authority, consisting of the vice-chancellor, the dir. of pub. instrcn., of Madras state, certain members elected by the senate and the academic council, and 3 members nominated by the chancellor. It meets monthly to consider matters pertaining to the admin. of the univ. The vice-chancellor, a full-time salaried officer, is the chief exec. officer of the univ. The registrar is sec. of the syndicate and the authorities of the univ., and carries out the various decisions of the authorities.

**FACULTIES AND PRESIDENTS.** *Agric.*—Dean S. Krishnamurthy; *arts.*—, comm.—Prof. G. V. Krishna Rao (bus. admin.), *engin.*—Principal A. Srinivasan; *fine arts.*—, ...; *law.*—, ...; *med.*—Dean S. Balasubramanian, *oriental learning.*—, ...; *sci.*—Principal S. J. Saverisayan; *teaching.*—Principal P. Doraiswami; *technol.*—Dr. G. S. Laddha (chem. engn.); *vet. sci.*—Principal B. A. D'Souza

**LABORATORIES.** Biochem., bot., geol., org. chem., phys., phys. chem., textile technol., zool.

**ADMISSION.** The min. qualif. for entrance to the pre-univ. course is the matric. exam. or such other exam. held under the auspices of a univ. or public body as are recog. by the univ., or the cert. issued under the S.S.L.C. scheme in accordance with rules framed by the univ. Except for *bona fide* teachers in instns. within the univ. area, candidates are not admitted to any of the exams. without undergoing the prescribed course of study in a coll.

**FIRST DEGREE (\*—integrated course)** BA, BSc, BSc(Hons), BCom, 3 yrs. after pre-univ.; BSc(Ag), BPharm, 4 yrs. after pre-univ.; BSc(Nursing), 4 yrs. after matric., BTech, BDS\*, 5 yrs. after pre-univ., BArch, BSc\*, 5 yrs. after pre-univ., BVSc, 5 yrs. 1 term after pre-univ.;

HIM (Indian med.), 3 yrs after entry or pre-professional; MB BS\*, 6½ yrs after pre-univ

HONORA DIGNITY BT, BLabSc, 1 yr; MEd, 1 yr after BT, MSc(Engg), 1 yr after BE; MA, 2 yrs after BA, BSc, MSc (by exam), MSc, 2 yrs after BSc, MSc(HonSci), 2 yrs after BSc(HonSci), MCom, 2 yrs after BCom, MLitt, 1 yr after BA (hons.) or MA (old regn.), BL, 2 yrs, ML, 2 yrs after BL; BSc (hon. sci.), 1 yr after MB BS, MD, MS, each 3 yrs after MB BS (integrated course), MVSc, 2 yrs after BVSc, MSc(Ag), 2 yrs after BSc(Ag); PhD in all facs 3 yrs after 1st higher degree in any fac, DLitt, 2 yrs after PhD, LLD, 3 yrs after BL, 1 yr after ML

HONORARY DEGREES DLitt, DSc, LLD

DIPLOMAS Postgrad - Analyst chem, anthropol., criminol. & forensic sci., journalism, phys educn, soc. service, anaesthesia, child health, clin pathol., dermatol., gynaecol. & obstet., ophthalmol., orthopaedics, oto-rhino-laryngol., radiol., tuberculosis, venereol., 1 yr; school, econ., stats, 2 yrs Other honore, mod European langs (French & German), 1 yr; Indian music, pol & pub. admin, 2 yrs, business management, 3 yrs

CERTIFICATES (not confined to grads) French, German, 1 yr, librarianship, 3 mos

Anthropol., 1 yr, sci. & humanities, 9 mos

ORIENTAL TITLES Siromani, Vajvra, Afzal-ul-Ulams, Mumtaz-i-Fazl, Adib-i-Fazl, Tabib-i-Kamil, Afzal-ul-Attribba, Malpan and Soppar, Sangita Siromani (4 yrs).

RECOGNITION OF EXAMS. of other univs is not granted in general terms. The syndicate deals with each application on its merits

FEES for univ. exams range from Rs. 5 to Rs. 250. Fees levied by colls. vary from Rs. 42 to Rs. 82 per term, according to courses. Fees levied by the univ. for dipl. courses vary from Rs. 15 to Rs. 100.

ACADEMIC YEAR For colls. affiliated or recog in arts, law, sci., teaching, 3 terms. Term dates (approx.). June 25 to Sept 28, Oct. 5 to Dec. 23, Jan. 6 to March 20

The usual LANGUAGE OF INSTRUCTION is English with exception of some colls. where Tamil is used for BA course in humanities

RESIDENCE, BIC Min. cost of board and lodging for students living in European style, Rs. 100 p.m.; Indian, Rs. 60 p.m. A students' club provides inexpensive meals and facilities for games and soc. intercourse irrespective of caste or creed

UNIVERSITY STUDENTS' UNION Located in Madras for the benefit of students in constituent colls., facilities for games. The governing body consists of the principals of constituent colls.

PUBLICATIONS. Calendar—Vol I, administration, statutes and ordinances, constituent and affiliated colls., endowments; Vols II and III, ordinances and regns., syllabuses; *Annual Report*; *Minutes* (of meetings of senate, academic council and syndicate); *Madras Univ. Journal*, *Annals of Oriental Research*

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	46,803	406
Women	10,371	40
Total	57,374	446

Distribution by Faculties, etc. Agric, 739; archt., 20; arts & sci. (incl. comm), 44,306; engin., 4004; law, 652; med., 3729; mining, 57; oriental learning, 885; phys. educn, 43; soc. service, 40; teaching, 1376; technol., 82; vet. sci., 656; dipl. & cert. courses held in the univ., 363

Included in the figures above are —

P.G. University students, 20,587

Postgraduate students, 1610

Students from other countries, 513 (Countries

from which largest numbers came - Ceylon, 289, Malaya, 156)

DEGREES AWARDED (1961-62) ML, 1, BL, 361; MD, 17, MS, 10, MB BS, 327, BPharm, 9, BSc(Nursing), 14; BE, 496, BDS, 17, MSc, 324, MSc(Engin), 48, BSSc, 1; PhD, 35; DSc, 1, BSc hon., 15; BSc, 2504; MSc(Ag), 27; BSc(Ag), 140, MSc (vet. sci.), 6; MVSc, 12; BVSc, 82, MCom, 25, MSc(Tech), 4; BSc(Tech), 47; BCom, 525, BT, 1001; MLitt, 15; MA, 764; BA hon., 91, BA, 2306, BCom hon., 2; MEd, 9, BOL, 1

DIPLOMAS AWARDED (1961-62). Anthropol., 2; bus. management, 19; econ., 2; French, 0; German, 13, geog., 3, Indian music, 1; journalism, 3; phys. educn, 57, pol. & pub. admin, 17; soc. service, 21, stats., 12.

CERTIFICATES AWARDED (1961-62) Anthropol., 3; French, 20, German, 22; librarianship, 19; sci. & humanities, 10

# MARATHWADA UNIVERSITY\*

Founded 1958

Postal Address Aurangabad (Deccan), Maharashtra State, India

Cables and Telegrams : Marathwada, Aurangabad (Deccan)

Telephone 190

CHANCELLOR—H.E. THE GOVERNOR OF MAHARASHTRA (ex officio)

VICE-CHANCELLOR—S R DONGERKERY, BA LLB BSc

REGISTRAR—M. B. CHITNIS, MA BSc

LIBRARIAN—N. A. GORE, MA DipLib BSc

## TEACHING STAFF

Chemistry		Marathi Language and Literature	
Khanolkar, D. D., DIC, MSc PhD BSc	Prof	Kulkarni, W. L., MA BSc.	Prof.
Thakar, K. A., MSc BSc	Lectr	Pathan, Y. M., MA BT PhD Poona	Lectr
Galgali, V. H., MSc Kori	Lectr	Rasal, S. N., MA Oms.	Lectr
Economics		Zoology	
Borkar, V. V., MA PhD BSc.	Prof.	Mohd Ali, S., MSc PhD Oms	Prof
Ranblase, N. P., MA Poona	Lectr.	Naravane, D. D., MSc BSc	Lectr
Pande, V. K., MA Nag & Alld	Lectr	Dishmukh, P. G., MSc Oms	Lectr

## ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Admin.) V K Dhamankar, MA Poona	Asst Registrar (Exams) A D Chavan, MA BSc	Accts Officer V B. Wani, BA BCom Poona	Asst Librarian. R G Joglekar, BA DipLib Poona	Sec., Extra-Mulal Bd R S Gupta, MA BSc Statistician V G Pathak, BCom LLB Oms, MA
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## AFFILIATED INSTITUTIONS

[Pre-Univ after the name of a coll means that pre-univ courses are provided there, BA, BSc, etc, means that courses are provided there for BA, BSc, etc]

AURANGABAD, <i>Dregus College</i> (1960) Pre-Univ., Pre-Profess., BA, BSc. Principal—A. N Chikhalkar, MA 22 other Teachers	(1960) BE(Civil), BE and y1 elects and mech Principal—G P Nagarkar, BE(Civil) 17 other Teachers
AURANGABAD, <i>Dr Ambedkar College of Commerce</i> (1960). BCom. Principal—R P Nath, MCom 10 other Teachers.	AURANGABAD, <i>Govt Medical College</i> (1946). 2nd MB BS Principal—G K Karandikar, MS PhD 38 other Teachers
AURANGABAD, <i>Govt College of Arts &amp; Science</i> (1924). Pre-Univ, Pre-Profess., BA, BSc Principal—M. G. Deshmukh, MA PhD LLB Nag. 38 other Teachers	AURANGABAD, <i>Mamchhand Patil Law College</i> (1956) LLB Principal—B. G. Ghate, BA LLB 9 other Teachers
AURANGABAD, <i>Govt. College of Education</i> (1954) BED Principal—N. T. Vartak, MSc MEd BT 9 other Teachers.	AURANGABAD, <i>Milind Maha Padyalaya</i> (1950) Pre-Univ., Pre-Profess., BA, BSc Principal—M. N. Wankhede, MA. 41 other Teachers
AURANGABAD, <i>Govt. College of Engineering</i>	BHIL, <i>Balbhair College of Arts &amp; Science</i> (1960).

\* Member of the Association of Universities of the British Commonwealth

Pre-Univ., Pie-Professor, BA, BSc 1st & 2nd and via Principal—S. R. Shinde, MA 17 other Teachers

JALNA, *Jyoti Saiksha College* (1960) Pre-Univ. (sec. 1) Principal—D. S. Yelkar, MSc 10 other Teachers

JALNA, *J. E. S. Arts & S. B. L. Commerce College* (1958) Pre-Univ., BA, BCom Principal—P. M. Sapre, MCom 11 other Teachers

KANDHAR (Dist. Nanded), *Shri Shriyaji Mahatma College* (1959) Pie-Univ., BA Principal—M. V. Sahasrabudhe 8 other Teachers

LATUR, *Dnyanesh College* (1961) Pre-Univ., Pre-Professor, BA 1st yr, BSc 1st yr, BCom 1st yr Principal—C. G. Karandhoke 8 other Teachers

MOHINABAD, *Yashwantrao Mahasabdalaya* (1956) BSc, BA, BCom 2nd yr Principal—S. K. Tekurkar, MSc 20 other Teachers

NANDED, *People's College* (1950) Pie-Univ.,

Pre-Professor, BA, BCom, BSc Principal—M. D. Padhye, BCom MA 28 other Teachers

OSMANGA (Dist. Osmanabad), *Shri Chhatrapati Shivaji College* (1959) Pie-Univ., Pre-Professor, BA 1st & 2nd yrs, BSc 1st yr. Principal—M. V. Shingde, MSc 18 other Teachers

OSMANABAD, *S. S. V. S. S.'s College of Arts* (1960) Pie-Univ., Pie-Professor, BA and yr, BCom 1st yr Principal—R. K. Kanburkar, MA 12 other Teachers

OSMANABAD, *S. S. V. S. S.'s College of Education* (1960) BEd Principal—D. D. Shedarkar, MA PhD 5 other Teachers

PAKSHANI, *Gest College of Agriculture* (1956) BScAgric Principal—V. P. Gokhale, BAg Bow, MSc(Agr) Poona 27 other Teachers

PARBHANI, *Shree Shriyaji College* (1961) Pre-Univ., Pie-Professor, BA 1st & 2nd yrs Principal—R. A. Nimke, MSc 11 other Teachers

## RECOGNIZED INSTITUTIONS

JALNA, *Jyoti Saiksha Mahasabdalaya* (1956) DipOL, Principal—Srinath Tripathi 5 other Teachers

NANDED, *Sarabhai Mahasabdalaya* (1955) DipOL, BOL Principal—Y. M. Kature 3 other Teachers

## GENERAL INFORMATION

Marathwada, the region comprising the districts of Aurangabad, Pathan, Nanded, Bha and Osmanabad, is now a unit of Maharashtra state (it formed pt. of the former Hyderabad state and subsequently a unit of the reorganized Bombay state). For nearly a decade there was a demand for a sep. univ. for this region from the citizens of Marathwada. On the eve of the reorg. of states in India, the govt. of Hyderabad recommended to the successor govt. of Bombay the estab. of this univ. The govt. of Bombay accordingly apptd. a comm. on whose report the legislature passed the Marathwada University Act, 1958, to estab. and incorporate a teaching and affiliating univ. at Aurangabad. The act received the assent of the govt. on May 5, 1958, and the univ. was inaugurated by M. Nohu, the prime minister of India, on Aug. 23, 1958.

Univ. jurisdiction extends over the 5 districts of the region (see above). The seat of the univ., Aurangabad (pop. 96,000), is a tourist centre 373 km. by rail N.E. of Bombay.

**CONSTITUTION.** The main authorities of the univ. are the comm. excc. council, academic council, facs, bds. of studies, bd. of univ. teaching and bd. of extra-mural studies. The comm. is a body with wide powers, which incl. the taking of decisions on questions of the affiliation of colls., estab. of depts., hostels and insts. of res. and sp. studies, conferment of degrees, instn. of teaching posts such as professorships, readerships and lectureships. The excc. council is the excc.

authority of the univ., which is in charge of day-to-day admin. The academic council has control and gen. regn. of maintenance of standards of teaching and exams. within the univ. The duties of the bds. of studies are to recommend text-books, draw up courses of study in their respective depts., and panels of examiners, etc. The bd. of univ. teaching reports direct to the excc. council regarding the conduct of all instn., teaching, lig. and res.

INCOME (1961-62) Rs. 1,476,597 (exam. & other fees, 25 per cent., state govt., 60 per cent., grants from U.G.C. & govt. of India, 11 per cent., misc., 4 per cent.)

**FACULTIES AND DEANS.** Agric., Principal V. P. Gokhale, arts, Principal M. V. Sahasrabudhe; edu., Principal P. M. Sapre, edu., Principal N. T. Vastak, excc., Principal G. P. Nagarkar, law, L. S. Kulkarni, med., Principal G. K. Karandhoke; sci., Principal A. N. Chikhalkar.

**UNIVERSITY PAVILION.** A portion of the site called the Soneri Mahal site, of about 700 acres, has been acquired for the univ. campus near a historic monument called Bibi ka Maqbara, which is a replica of the Taj Mahal, at the foot of hills. At present, the office of the univ. has been temporarily housed in a govt. bldg. in the town; a semi-permanent bldg. in the same premises now houses the lib., reading room and chem. and zool. labs.

**LIBRARY.** 58,000 vols.

**LABORATORIES** Chem., zool (see also 'Univ recinet', above)

**ADMISSION** Pre-univ courses, conducted in affiliated colls., are of 1 yr's duration after H S C (high sch cert) exam or exam approved as equivalent, and admit to degree courses in arts, sc., econ., and to pre-professional course leading to MB BS and civil engin. courses

**FIRST DEGREES** 3 yrs after pre-univ—BA, Sc, BCom, 4 yrs after H S C—BScAgr, 5 yrs after 1-yr pre-professional course (with phys., chem., biol) taken after pre-univ—MB BS, 3 yrs after 1-yr pre-professional course (with phys., chem., maths, drawing) taken after pre-univ—E, 2 yrs after DipOL or exam. recog. as equivalent—BOL

**HIGHER DEGREES** BEd, 1 yr and LLB, 2 yrs. or 1st degree, MA MSc, 2 yrs. from 1st degree; PhD, 2 yrs from postgrad. degree.

The univ. has not yet awarded any HONORARY DEGREES

**EXTERNAL DEGREES** BA—external students (women, and persons gainfully employed within univ. area) may appear as private students for 1st-univ (humanities) and BA exams without attending lectures in a recog. instn. of the univ. IA—teachers gainfully employed within univ. area and women candidates may appear privately for MA exam

**RESEARCH** Depts. of chem., econ., Marathi and zool provide res. facilities for students and themselves undertake res., e.g. compilation of Persian-Arabic-Turkish-Marathi dictionary, study of socio-econ. effects of Poona project

**STUDY LEAVE** The exec. council may grant study leave to univ. profs., readers or lectrs. on such terms as it thinks fit

**FEES** Annual tuition fees: MA classes, Rs. 200, MSc classes, Rs. 300. (Undergrad. classes are conducted by the affiliated colls.).

**ACADEMIC YEAR** June to April, 2 terms, June to Oct., Nov. to April. Vacation of 14 days in winter (Dec. 24 to Jan. 6)

**USUAL LANGUAGE OF INSTRUCTION.** English

**ADULT EDUCATION.** With object of giving univ. educn. a rural and social orientation by taking univ. educn. to men and women denied opportunities for higher educn., the bd. of extra-mural studies provides adult educn. to students registered at centres opened by the bd. in rural areas (at present there are 19 centres); lectures are given by univ. or coll. teachers

**PRINCIPAL 'OPEN' AWARDS** Merit scholps awarded to students who obtain at least a 2nd class pass in the last qualifying exam. for the 1st degree; value, Rs. 15 p.m. for sr. classes, Rs. 10 p.m. for jr. classes. Postgrad. merit scholps 4 scholps of Rs. 50 p.m. awarded to 2 students from dept. of Marathi and 2 from econ. on basis of merit in the last qualifying exam

**NATIONAL CADET CORPS TRAINING** 5 detachments, sr. div., 1 girls' troop, sr. wing; 8 N.C.C. 11th coy., 1 med. coy.

**PUBLICATIONS** *Annual Report*, *Univ. Journal*, *Univ. Handbook* (pt II—vol. I), *Prospectuses of all univ. exams*

## THE YEAR 1961

Statistics

STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time*
Men	6085	746
Women	300	69
Total	6475	815

Distribution by Faculties: Agric., 206, arts, 184, comm., 738; econ., 130; engin., 155, sc., 189, med., 226; sci., 2762. Total: 7290

\* 'Part-Time' refers to external students as defined above

Included in the figures above are:—

Pre-University students, 2963  
Postgraduate students, 274  
New admissions, 2758  
Students from other countries, 3

**DEGREES AWARDED (1961-62)** Agric.: BSc, Agri., 23. Arts: BA, 266. Comm.: BCom, 42. Econ.: BEd, 114. Law: LLB, 20. Sci.: BSc, 152



## UNIVERSITY OF MYSORE\*

Founded 1916

Postal Address: Mysore, Mysore State, South India

Cables and Telegrams: Univm, Mysore

Telephone: Mysore 677

CHANCELLOR—His Highness MAHARAJA SRI JAYACHAMARAJA WADYAR BAHADUR OF MYSORE, GCB,  
GCSI, Governor of Mysore

PRO-CHANCELLOR—

Vice-Chancellor—N. A. NIKAM, MA Camb.

REGISTRAR—K. S. SIDDALINGAIAM, MSc PhD

CONTROLLER OF EXAMINATIONS—H. M. SADASHIVAIAM, MA LLB PhD

BUSAR—N. KRISHNAPPA, BA

LIBRARIAN—H. H. ANNAIAH GOWDA, MLitt Durh, MA

## TEACHING STAFF

[(MGM), (YCM), etc =abbreviations for the names of units listed on p. 637]

<b>Arabic</b> , see Urdu		Viswanthash, M. N., MSc PhD (Geol.) Prof. (MGM)
<b>Botany</b>		Ahmed, S. N., MA LLB (Geog.) Reader (MC)
Narayan, K. N., MSc PhD	Prof. (MGM)	Govindarajulu, B. V., MSc PhD (Geol.) Reader (MGM)
<b>Chemistry</b>		<b>Hindi</b>
Narayan, G., MSc PhD	Prof. (MGM)	Nagappa, N., MA Reader (MGM)
Siddalingaiah, K. S., MSc PhD	Reader (MGM)	<b>History, Economics and Political Science</b>
Sharika Gowda, H., DSc	Reader (MGM)	Huchappa, G. T., MA PhD N.Y. (Econ.) Prof. (MGM)
Visubhadrappa, G., MSc	Reader (YCM)	Thotappa, K. B. Y., MA PhD Bow & Chow (Pol.) Prof. (MGM)
Suryanarayana, C. V., MSc And. DPhil. Alld.	Reader (MGM)	<b>Readers</b>
Ramsah, T. R., MSc PhD	Reader (MGM)	Halappa, G. S., MA Col. (on leave) (Pol.) (MC)
<b>Economics</b> , see Hist., Econ. and Pol. Sci.		Cheluvarya, K. H., MA (Pub. Admin.) (MC)
<b>Education</b>		Shankalingiah, N., MA (Pol.) (MC)
Venappa, N. S., BSc BT DEd	Reader (MGM)	Venkatragu Gowda, K., MA PhD Lond. (MGM)
<b>Engineering</b> , see below		Srinivasa Murthy, A. P., MA (MGM)
<b>English</b>		<b>Indology</b>
Narasimhash, C. D., MA Camb.	Prof., Principal (MC)	Seshadri, M., MA PhD Lond. Reader (MGM)
Shankavetrappa, S. N., MA	Prof. (MC)	Purusothama, C. G., MA Reader (MC)
Curuppi Rao, R., MA	Reader (MC)	Shivalingiah, S. K., MA Reader (MC)
<b>Geology and Geography</b>		<b>Journalism</b>
Ghori, G. K., MSc PhD Lond.	(Geog.) Prof. (MC)	Murthy, N. K., MA Reader (MC)
		<b>Kannada</b>
		Javara Gowda, D., MA Reader (MGM)

\* Member of the Association of Universities of the British Commonwealth

**Mathematics and Statistics**

Iyengar, K. Venkatesh, DSc Prof (MGM)  
 Keshava Hegde, S V, MSc PhD Zdr  
 Prof, Principal (YCM)  
 Ramesan, T, MSc Prof (EC)  
 Nanyandiah, T S, MSc PhD Reader (MGM)

**Persian, see Urdu****Philology**

Manappa Naik, MA Reader (MGM)

**Philosophy and Psychology**

Krishnan, B, MA Reader (MGM)  
 Venkatarayappa, K N, MA PhD Reader (MC)  
 Parvathammas, Miss C, MA PhD Reader (MC)  
 D'Mendonca, A., PhD Reader (MGM)  
 Raghavachari, S S Reader (MGM)

**Physics**

Chandrasekhar, S, PhD DSc Prof (MGM)  
 Pancharatnam, S, DSc Reader (MGM)  
 Krishnamurthy, D, MA PhD Reader (MGM)

**Political Science, see Hist., Econ and Pol Sci****Psychology, see Philos and Psychol****Sanskrit**

Ramachandra Rao, S, MA Prof (MGM)  
 Marulasiddiah, G, MA PhD Reader (MGM)  
 Rangachari, S, MA Reader (MC)  
 Siddappaswamy, T G, MA PhD Reader (MGM)

**Statistics, see Maths and Stats****Tamil and Telugu**

Subbanamappa, K, BA BEd BOL  
 (Telugu) Reader (MC)

**Urdu, Persian and Arabic**

Khan, K A, MA PhD Canad. Prof. (MC)  
 Begum, A, MA PhD (Urdu) Prof. (MGM)  
 Mohamed Jalaluddin, H M, MA Reader (MC)

**Zoology**

Rajashekara Setty, M R, MSc PhD  
 Offg. Prof. (MGM)  
 Bola Gowda, B N, MSc PhD Reader (MGM)  
 Appaswamy Rao, M, MSc PhD Reader (MGM)

**ENGINEERING (EC)****Engineering, Civil**

Narasimhaiah, D B, BE MS(Mech)  
 MS(CE) Kharagpur Prof.  
 Venkateshiah Murthy, H, BSc BE Reader  
 Ramaswami, B. K., MS Coen, PhD Fawcett, BE  
 Dwarakaprasad, V, BE Reader

**Engineering, Electrical**

Channabasaviah, K., BE MS(EE) Wtr.  
 Prof., Principal (EC), Jr. Dir. of Tech.  
 Educn.

Lakshman Reddy, S, BE Reader

**Engineering, Mechanical**

Narasayana Iyengar, B R., SM(Mech) MIT,  
 BSc BE Prof.  
 Gundu Rao, K V, BE Reader  
 Langam, K, MTech Kharagpur, BE Reader  
 Shankaraswamy, B. P., BE Reader

**ADMINISTRATIVE AND OTHER STAFF**

Planning Officer H N Channiah, MSc  
 Exec. Engineer H P Shanmuga, BE Asst  
 Engineer S A Baje Gowda, BE

Dir., Univ Prasanna P Mallikarjunappa,  
 MSc Dir., Oriental Res Inst : H Devareappa,

MA Dir., Phys. Educn. : A Narayanaswamy,  
 BA

Wardens of Hostels Mahalinga's Coll Hostel,  
 Mysore K N Venkatarayappa, MA PhD,  
 Engineering Coll Hostel, Bangalore H Ven-  
 kateshiah Murthy, BSc BE.

**UNIVERSITY COLLEGES**

(EC), etc = abbreviations for names of Colleges in Teaching Staff list, above;  
 Pre-Univ., BA, etc., after the name of a coll. means that courses are provided  
 there for Pre-Univ., BA, etc.]

BANGALORE, *Engineering College* (EC) (tel. :  
 2343) BE, ME Principal—K Channabasava-  
 viah, BE MS(EE) Wtr

MYSORE, *Maharaja's College* (MC) (tel. : 754).  
 BA, BSc, MA, MSc, PhD, dipls in Indology,  
 Hindi, French. Principal—C. D. Narasimhaiah,  
 MA Canad.

MYSORE, *Manasa Gangotri* (Jayalakshmirvila  
 Mansion) (MGM) (tel. : 1144). MA, PhD,  
 MEd, MSc, MCom. Admin. Officer—H. N.  
 Channiah, MSc

MYSORE, *Tyasa's College* (YCM) (tel. : 592).  
 Pre-Univ., BSc. Principal—S. V Keshava  
 Hegde, MSc PhD Zdr.

# **AFFILIATED COLLEGES**

## **GOVERNMENT**

BANGALORE, *Agricultural College*. Pre-Professional, BSc(Agrt) Principal—B Venkoba Rao, MSc.

BANGALORE, *Bangalore Medical College*. Pre-Professional, MB BS Principal—T Manickam, MB MS

BANGALORE, *Bangalore Veterinary College*. BVSc Principal—K. S. Setty, PhD Edm.

BANGALORE, *Central College* (tel 2051) BSc, MA, MSc, PhD, dipl in German. Principal—M. Shadakshala-Swamy, MSc PhD Lond

BANGALORE, *Law College*. BL, ML Principal—B Sadashivaiah, MA ML

BANGALORE, *Mahawan's College for Women* (tel 2796). Pre-Univ, BA, BSc Principal—H M Parvathamma, MA.

BANGALORE, *Medical School*. LMP dipl Principal—

BANGALORE, *R C College of Commerce* (tel 2589) Pre-Univ, BCom Principal—G Ramakrishna Reddy, MA PhD

BANGALORE, *Sri Krishnarajendra Saloor Jubilee Technological Institute*. Pre-Professional, BSc (Tech). Principal—Srinagabhushana, BSc, FTL

CHITRADURGA, *First Grade College*. Pre-Univ, BA, BSc Principal—S L Rama Rao, BA BCom

COORG, *Gout College*, Mercara. Pre-Univ, BA, BSc, BCom. Principal—Venkatarama Rao

HASSAN, *First Grade College*. Pre-Univ, BA, BSc Principal—

MANGALORE, *Govt. Arts College*. Pre-Univ, BA, BSc, BCom. Principal—Umara, AM Cal, MSc.

MANGALORE, *Govt. Training College*. BED. Principal—S. R Rohidekar, BA MED

MYSORE, *Mahawan's College for Women* (tel 782) Pre-Univ, BA, BSc Principal—Miss M Jayalakshammanna, MA

MYSORE, *Medical College* (tel 512) Pre-Professional, MB BS Principal—J J Dharmaraj, MB BS

MYSORE, *Teacher's College* (tel 764) BED Principal—S M Krishnan, MA BT.

SHIMOGA, *Sakynbi College*. Pre-Univ, BA, BSc Principal—M Nagaraj, MSc PhD Cluz

TUMKUR, *First Grade College*. Pre-Univ, BA, BSc Principal—Mohamed Ahrbulla, MSc

## **PRIVATE**

BANGALORE, *Acharya Pathasala College of Arts and Commerce*. Pre-Univ, BA, BCom Principal—N Ananthachari, MA

BANGALORE, *All India Institute of Mental Health*. DPM, DMP Principal—D L N Murthy Rao, DPM Lond, MB BS

BANGALORE, *B.M. Srinivasiah College of Engineering*. Pre-Professional, BE. Principal—D. Mukerji, BSc BEng Sheff

BANGALORE, *College of Arts and Commerce*, Malleswaram. Pre-Univ, BA, BCom. Principal—B R. Subba Rao, MA

BANGALORE, *M E S. Teachers' College*. BED. Principal—K. V Doraswamy, MA BT.

BANGALORE, *Mount Carmel College*. Pre-Univ, BA, BSc Principal—M Antonietto, MA LT

BANGALORE, *National College*. Pre-Univ, BSc. Principal—H Narasimham, MSc PhD.

BANGALORE, *Rachatsya Vidyalaya Teachers' College*. BED. Principal—T G. Sutyamaryanna, MA

BANGALORE, *St. Joseph's College*. Pre-Univ, BA, BSc, BCom Principal—Fr. E. D'Souza

BANGALORE, *Sri Renukacharya College*. Pre-Univ, BSc Principal—C N Adeveshah, MSc.

BANGALORE, *Vijaya Teachers' College*. BED. Principal—K Srinivasa Rao

BANGALORE, *Vijaya College*. Pre-Univ, BSc Principal—V T. Srinivasan, MA

BELLARY, *Venaranga College*. Pre-Univ, BA, BSc, BCom. Principal—D. Manappa, MA LT MED.

CHAMARAJANUR, *Intermediate College*. Pre-Univ. Principal—O N. Kumaraswamy, MSc.

DAVANGERE, *B.D.T. College of Engineering*. Pre-Professional, BE Principal—B. P. Gopalkrishna, BSc BE

KANKAJURA, *The Rural College*. Pre-Univ, BSc. Principal—S Kalappa, BA.

KARRAL, *Shahamunda College*. Pre-Univ, BA, BSc, BCom. Principal—D Kini, MSc

KONANUR, *B M. Shetty Intermediate College*. Pre-Univ Principal—A Seshagiri Rao, BSc

MANGALORE, *St. Agnes College*. Pre-Univ, BA, BSc Principal—M Carmelita

MANGALORE, *St. Aloysius' College*. Pre-Univ, BA, BSc, BCom. Principal—Rev. A. P. Menzes

MANGALORE, *St. Ann's Training College*. BED Principal—Sr. M Beatie

**MYSORE, D. Banumath's College of Commerce**  
Pre-Univ., BCom Principal—B V Banumath, BA BCom

**MYSORE, Institute of Education** BED Principal—M S Chandrasekharan, MA MEd.

**MYSORE, National Institute of Engineering** Professional, BE Principal—A Seshappa, BA BE

**MYSORE, St. Philomena's College** Pre-Univ., BA, BSc. Principal—Rev Fr N T Thomas.

**MYSORE, Saradavallu Law College.** BL Principal—K Nishant Rao, BA BL

**MYSORE, Sharada Vilas College.** Pre-Univ., BSc Principal—M. S. Ramaswamy, MA

**NARASIPUR, Vidyalaya College** Pre-Univ. Principal—

**PURURU, St. Philomena's College.** Pre-Univ Principal—Rev Fr F. B. Serrao, MA BT

**UDUPI, Mahatma Gandhi Memorial College** Pre-Univ., BA, BSc, BCom Principal—H Sander Rao, MA

**UDUPI, Sargamapada College** Pre-Univ., BA, BCom Principal—Immedas, MA

## INTERMEDIATE COLLEGES

**BANGALORE, Govt. Arts and Science College** (tel. 2215) Pre-Univ., BSc. Principal—F J Noronha, MA Lond

**CHIRANAGALUR, Intermediate College** Pre-Univ. Supt—C Mahadevappa, MA.

**DAVANGERE, D R M College** Pre-Univ. Supt—N S L Setty, MSc

**KOLAR, Intermediate College** Pre-Univ. Supt—T D. Bhaskar, MSc MS

**MANEYVA, Intermediate College.** Pre-Univ. Supt—K S. Nanjundiah, MA

## GENERAL INFORMATION

The Univ. of Mysore was the first univ. to be founded in the Indian states. The two state colls. (Central Coll., Bangalore, and Maharaja's Coll., Mysore) which had long been affiliated to Madras Univ. formed the nuclei of the new univ., and the establishment of the univ. received the sanction of H H. the Maharaja of Mysore in 1916. A regn. amending and consolidating the provisions of the Mysore Univ. Regn. V of 1916, as amended from time to time, received the assent of H.H. the Maharaja in 1935. Further amendment in 1956 made the univ. an autonomous body.

There are two univ. centres, Mysore and Bangalore, at each of which there are univ. colls. (see p. 637).

The former Mysore, Coorg and Mangalore, South Kanara (except the med. and engn. colls., Manipal, and law coll., Udupi), form the territorial jurisdiction of Mysore Univ.

The univ. is empowered to affiliate colls. under conditions prescribed in the statutes and ordinances. Inspection of colls. is made by prods. deputed by the syndicate.

**CONSTITUTION.** The principal univ. authorities are the senate, the syndicate, the academic council, the fac., the bds of studies, the bd of appts. and the cttee of finance. The vice-chancellor, who is a full-time officer, is the ex-officio chairman of the senate, the syndicate and the academic council. He is also the principal exec. officer and the academic officer of the senate and of the council. The exec. govt. of the univ. is vested in the univ. syndicate which consists of 14 members. The senate, with a max. strength of 42 members, is in charge of the gen. organization of the univ. and

its admin., incl. the attn. and conferment of degrees. The academic council is the academic authority of the univ. and is responsible for the maintenance of the standards of teaching and examination in the univ.

**INCOME (1961-62)** Estimated receipts: grant from govt. of Mysore, Rs 45.77 lakhs; grant from U.G.C., Rs 72.23 lakhs; fees, Rs 24.86 lakhs.

**FACULTIES AND DEANS.** *Agric.*, Principal B. Venkoba Rao; *arts*, . . . ; *comm.*, Principal B. V. Banumath; *educ.*, Prof. A. C. Deve Gowda; *engn.*, Prof. B. R. Narayana Iyengar (*mech. engn.*), *law*, Principal K. Narahari Rao; *med.*, Basavuraj Urs; *sci.*, Prof. K. Venkateshiah Iyengar (*maths.*); *technol.*, Principal Srinagabhushan.

**UNIVERSITY PRINCIPAL.** The admin. offices of the univ. are located in the Crawford Hall, Mysore.

**LIBRARIES.** Univ., 85,062 vols., oriental, 26,170 vols. and 14,976 MSS. Each coll. has its own library.

**LABORATORIES.** At Central Coll., Bangalore: bot., chem., geol., phys., zool. At Maharaja's Coll., Mysore: psychol.

**ADMISSION REQUIREMENTS.** Pre-univ. course: pass in the Mysore S.S.L.C. exam. satisfying the differential minimum rules, or in matric exam. of an Indian univ. or other exam. recog. by the univ. syndicate as equivalent thereto. BA, BSc. courses: pass in the pre-univ. exam. of this or any other Indian univ. recog. by the univ. syndicate. BE

course, pass in pre-professal or inter exam in sci of this univ. or an exam of this or any other univ. accepted by the univ. syndicate as equivalent thereto, or degree in sci with phys., chem. and maths. as optional subs., or degree with honours with maths and phys. as main subjs. MB BS course pass in pre-professal (med.) or pre-med. exam of the univ. or BSc degree of this univ. with 1 or more of the above subs., or equivalent qualifs. of other univs. accepted by the syndicate. Provision has been made for the admission to the MB BS course of LMP dipl. holders. They will be eligible for admission to the final exam. 3½ yrs. after admission.

**POST-GRADUATE** 3 yrs. after pre-univ.—BA, BSc, BCom, 3 yrs. after pre-professal exam.—BSc(Agric), BSc(Textiles), BPharm, 4 yrs. after pre-professal exam.—BDS, 5 yrs. after pre-univ.—BB (successful candidates are eligible to take the degree after a yr.'s practical trig. in a recog. works or firm), BVSc, 5½ yrs.—MB BS.

**HIGHER DEGREES** BED—1 yr. after BA, BSc, BCom; MA, MSc—1 yr. after BA (honors), BSc (honors) or 2 yrs. after BA, BSc, MEd—1 yr. full-time or 2 yrs. pt.-time after BED; BL—2 yrs. after BA, BSc, BCom, PhD—3 yrs. after bacc. degree or 2 yrs. after master's degree, DLit, DSc—5 yrs. after honours degree or 4 yrs. after master's degree, MCom or ML—2 yrs. after BCom or BL, DE—1 yr. after ME; DEd—by thesis after MEd, MD, MS, MSc(Med)—2 yrs. after MB BS.

**HONORARY DEGREES** DLit, DSc, LL.D.

**DIPLOMAS** Dipl. of licensed med. practitioner (LMP), 4 yrs. after high sch., dipls. in French, German, Hindi, each 2 yrs. after S.S.L.C. Postgrad., 1st div., 1 yr., ophthalmic med. and surg. (DOMS), 1 yr. after MB BS, psychol. med. (DPM), 2 yrs. after MB BS, med. psychol. (DMP), 2 yrs. after MA in psychol.

**RESEARCH** Facilities for postgrad. res. are provided in educn., bacteriology, sci. (Monasa Gangotri, Mysore, Maharaja's Coll., Mysore, Central Coll., Bangalore), and mental sci. (All India Inst. of Mental Health, Bangalore).

**STUDY LEAVE** Study leave benefits may be granted to teachers of univ. colls. who proceed abroad for advanced studies, taking into acct. the budget provision for this purpose each yr.

**FEES** Annual tuition fees, pre-univ., Rs. 50 (arts), Rs. 117 (sci.), pre-professal, Rs. 115 (agrie), Rs. 180 (engin., textiles), Rs. 225 (med.);

BA, BCom, Rs. 126, BSc(Agric), Rs. 144, BSc, Rs. 162; BSc(Textiles), BE, Rs. 198, BVSc, Rs. 200, MB BS, Rs. 400, BED, Rs. 135, MA, Rs. 144, MSc, Rs. 180; MEd, Rs. 180, BL, Rs. 252, PhD, Rs. 80 (min), Rs. 120 (sci.)

**ACADEMIC YEAR** Two terms. Term dates (approx.): arts, sci. and professal colls. (other than med.), June 24 to Oct. 31, Nov. 1 to March 31; med. colls., Jan. 9 to March 31, June 24 to Nov. 29.

The usual LANGUAGE OF INSTRUCTION is English. Kannada, the regional lang., has been introduced in the pre-univ. and 1st yr. degree classes as an optional medium.

**EXTENSION WORK** An extension lectures cttee. arranges an annual programme. During each yr. a number of lectures are delivered in different parts of the state.

**WOMEN'S EDUCATION** All degrees except BE are open to women. There are 5 instns. exclusively for women—the Maharani's Coll. and Mr. Carmel Coll. in Bangalore, the Maharani's Coll. in Mysore, St. Agnes Coll. and St. Ann's Tig. Coll., Mangalore.

**STUDENT RESIDENCES** Univ. hostels at Mysore, Bangalore, Tumkur, Kolhr and Davanagere; average hostel expenses for 9 mos., about Rs. 450.

**STATE RESIDENCES** There are 8 quarters for profs. and 19 for other staff of the univ. at Mysore, and 1 principal's quarters at Bangalore.

**STUDENTS' UNIONS** Students' assns., are organized in every coll. Debates, lectures and seminars are arranged under their auspices.

**NATIONAL CADET CORPS** N.C.C. units have been raised in 34 colls. (Boys' div. in 30 colls., girls' div. in 4 colls.) Total strength, 38 officers and 5613 cadets.

**STUDENT HEALTH SERVICE** All students are examined by the med. officer once a year.

**PUBLICATIONS** There is a separate dept. of publishers in the univ. under the charge of a dir. The univ. encourages the publish. of original works, particularly in Kannada. The univ. also publishes a *Calendar*, an *Extension Lectures Handbook* series, the *Univ. Journal* (2 parts, twice p. a.) and *Prabodha Kavata* (2 parts, 4 issues p. a.)

**UNIVERSITY PRESS** A univ. press has been establd. and will undertake the printing work (incl. publish.) of the univ.

## THE YEAR 1961

**RETIREDMENTS** Prof. T. N. Srikantaya (Kannada), Prof. D. L. Narasimhaiah (Kannada),

Prof. B. K. Naidu (psychol.), T. S. Shama Rao (librarian); B. A. Krishnaswamy Rao (phys.)

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	29,669	16
Women	6,573	3
Total	36,242	19

Distribution by Faculties: Agric, 344; arts, 6539; comm, 3560; educn., 480; engin., 3569; law 936; med., 1676; sci., 18,772; technol., 76; vet sci., 300. Total: 36,201.

Included in the figures above are —

Pre-University students, 12,022.

Postgraduate students, 928

New admissions, 25,284

Students from other countries, 20. (Countries from which largest numbers came: Ceylon, 7; Kenya, 3)

DEGREES AWARDED (1961-62) PhD (sci), 5, PhD (arts), 2; MSc, 187, BSc hon, 48, BSc (old scheme), 1287, BSc (new scheme), 361; BSo(Agr), 74, BSc(Tech), 12, BE, 522, MB BS, 87, MA, 211, BA hon, 26, BA (old scheme), 796; BA (new scheme), 373, BCom (old scheme), 387; BCom (new scheme), 155; BL, 144, BEd, 325, MEd, 13; DEd, 1.

# NAGPUR UNIVERSITY

Founded 1923

Postal Address : Nagpur, Maharashtra State, India

Cables and Telegrams : Nagpur University, Maharashtra State

Telephone : Nagpur 2382

CHANCELLOR—H E THE GOVERNOR OF MAHARASHTRA (*ex officio*)

VICE-CHANCELLOR—Justice S P. KOTVAL, BA LLB

TREASURER—P P. DEO, MA LLB

REGISTRAR—M. S. MODAK, MA PhD

DEPUTY REGISTRAR—S V BHAGWAI, MA PhD

LIBRARIAN—N. N. GIDWANI, MA MED LLB DipLibSc

## TEACHING STAFF

[†=Part-Time ; (AA), (GSc), etc.=symbols for reference to the colleges listed on pp. 654-655]

### Agricultural Botany

Vaidya, S B, BAg
Chopde, P R, BSc(Agr)
Chaugale, D. S, BAg
Khadilkar, B. T., MSc(Agr)
Pimplikar, E. D., MSc(Agr)
Tatwewadi, G. R., MSc(AgrBot)
Lall, S. B., MSc(AgrBot) PhD
Ohawghawre, B. G., BSc(Agr)
Deshmukh, N. Y., BSc(Agr)
Tayyib, M. A., MSc(AgrBot)
Karwe, G. A., BSc(Agr)
Hande, S. G., MSc
Mallikarjuna, S. R., MSc
Roy, A. K., MSc

### Agricultural Chemistry

Shrivastava, R. C., MScTech *More.*

Bapat, M. V., MSc	Principal (A)
Khadilkar, V. B., MScAgr	Lectr. (A)
Deora, C. M., BSc(Tech)	Lectr. (A)
Badhe, N. N., MSc	Lectr. (A)
Kadrekar, S. B., MSc(Agr)	Lectr. (AA)
Josh, B. G., MSc	Lectr. (AA)
Badekar, V. G., MSc	Lectr. (AA)
Dattatray, S. Y., MSc(Agr)	Lectr. (AA)
Wadolkar, P. N., MSc	Lectr. (Sh)
Gulaze, S. N., MSc	Lectr. (Sh)
Patil, O. T., MSc(Agr)	Demr (Sh)
Pampatliwar, M. L., MSc(Agr)	Lectr (Ch)

### Agricultural Economics

Shingray, M. K., MA BSc(Agr)	Lectr. (A)
Soham, D. K., MA BSc(Agr)	Lectr. (AA)

### Agricultural Extension

Shirpurkar, G. R., MSc(Agr) <i>Adel.</i>	Prof. (A)
Kulkar, M. G., BSc(Agr)	Lectr. (A)
Deshpande, U. G., BSc(Agr) MA(Econ)	
	Lectr. (A)
Kulkarni, D. R., BSc(Agr)	Lectr. (A)
Khaladkar, B. T., MS(AgrExtn) <i>Mish.</i>	
	Lectr. (A)
Josh, V. H., MS(AgrExtn) <i>Kannas,</i>	
	Prof. (AA)
Deshmukh, B. R., MSc(Agr)	Lectr. (Sh)
Chandurkar, H. G., MSc(Agr)	Lectr. (Sh)

### Agricultural Mathematics, Surveying and Engineering

Gharat, G. K., BSc(Agr)	Lectr. (A)
Ketkar, S. V., BSc(Agr)	Lectr. (A)
Tankale, V. A., MS(Agr) <i>Kannas,</i>	
	Lectr. (AA)
Deshpande, G. P., MSc	Lectr. (AA)
Mahajan, B. N., MSc	Lectr. (Sh)
Patode, R. S., MSc	Lectr. (Sh)
Inglo, G. S., BSc(Agr)	Lectr. (Sh)

### Agronomy

Deshpande, A. M., BSc(Agr)	Prof. (A)
Upadhyaya, U. C., MSc(Agr)	Lectr. (A)
Vadga, C. S., MSc(Agr)	Lectr. (A)
Koregave, B. A., MSc(Agr)	Lectr. (A)
Baporiakar, V. R., BSc(Agr)	Lectr. (A)
Bathkal, B. G., BSc(Agr) MA	Lectr. (A)
Narikhede, B. N., MSc(Agr)	Lectr. (A)
Khare, B. G., MSc(Agr)	Lectr. (A)
Haz, M. A., MS <i>Texas</i>	Principal (AA)
Sahmabuddhe, K. R., MS <i>Kannas,</i>	
	Prof. (AA)

Burande, D R, MSc(Agr)	Lectr. (AA)	Alsi, P S, MS	†Prof (VAM)
Khet, M A, MSc(Agr)	Lectr. (AA)	Tink, M. N	Lectr (VAM)
Mahalle, P S, BSc(Agr)	Lectr (AA)	Siksha, T K, MB BS	†Lectr (VAM)
Badhe, N T., BSc(Agr)	Lectr (AA)	Patsankar, Mrs Sindhu, MB BS	†Lectr (VAM)
Nikam, J B, MSc(Agr)	Lectr (Sh)	Nak, M R, MB BS	Lectr (VAM)
Shah, K M., BSc(Agr)	Lectr (Sh)	Gulhane, L N, MB BS	Lectr (VAM)
Bhargava, P N, MSc(Agr)	Lectr (Sh)	Sahasrabudhe, Miss Usha	Lectr (VAM)
Dess, S D, MSc(Agr)	Lectr. (Ch)	Kuthe, D. S	Lectr (VAM)
		Deshmukh, M G, MB BS	Lectr (VAM)
		Patil, U K, MB BS	Lectr (VAM)
		Shastri, N G, MB BS	Lectr (VAM)
		Jadhav, S S	Demr (VAM)
		Lokande, N D	Demr (VAM)

## Ancient Indian History and Culture

Mursh, V V., MA DLitt	Prof., Hd of U. Dept		
Daksh, M G., MA PhD	Reader		
Shastri, A M, MA	Lectr		
Verma, O. P., MA	Lectr		

## Animal Husbandry and Dairy

Chavhan, I. G., PhD MS	Lectr. (A)	Chakrabarti, C H, MSc PhD	Lectr.
Sangle, E M., MSc(Agr)	Lectr. (A)	Hatwalne, V. G., MSc PhD	Lectr.
Bonde, H S., MSc(Agr)	Lectr (AA)	Rajchoudhary, D., MSc	Lectr
Sannawat, R D., MSc(Agr)	Lectr (Sh)		

## Arabic and Persian

Nasraddin, S., MA DLitt	Prof. (NMV)	Dnyanasagar, V R., MSc PhD	Prof (VM)
Rafuddin, S., MA PhD	Lectr (NMV)	Dalal, S B, MSc	Lectr (VM)
Shah, H. M., MA	Lectr (NMV)	Nagarkar, M, MSc	Lectr (VM)
Hazmi, M, MA LLB	Lectr (NMV)	Deshpande, P K, MSc	Lectr (VM)
Abadi, A H., MA	Lectr (VM)	Dhamdhare, R N, MSc	Lectr (VM)
Zohara Begum, Miss, MA	Lectr (W)	Dhore, M A, MSc	Lectr (VM)
Heshma, Miss Nilofar, MA	Lectr (W)	Tink, V D, MSc	Lectr (VM)
Sani, Miss Leena, MA	Tutor (W)	Bhusari, S. D., MSc	Asst. Lectr. (VM)
		Patil, R M, MSc	Asst Lectr (VM)
		Theophilus, S C, MSc	Sr Lectr (H)
		Beltram, R, MSc	Lectr (H)
		Beltram, Miss R, MSc	Tutor (H)
		Bolekar, C S, MSc	Sr Lectr (M)
		Bobde, P. L., MSc	Lectr. (M)
		Pahade, M. J., MSc	Lectr (M)
		Deshpande, Miss Nirmala, MSc	Tutor (M)
		Kajale, L. B., DSc	Prof., Principal (Se)
		Murash, M V., MSc	Prof (Se)
		Hamarnava, Mrs L S, MSc	Lectr (Se)
		Timhane, S. N., MSc BT	Lectr (Se)
		Dubhash, P J., MSc	Lectr (Se)
		Bhansale, R. D., MSc	Lectr (Se)
		Trivedi, Mrs T K, MSc BT	Lectr. (Se)
		Paradkar, Mrs. S. A., MSc	Lectr. (Se)
		Kapuskar, A T., MSc	Lectr. (Se)
		Joshi, S R, MSc	Asst. Lectr (Se)
		Nafle, Miss V R, MSc	Asst. Lectr (Se)
		Dose, Miss V P., MSc	Asst Lectr (Se)
		Bhade, A V, MSc	Asst Lectr (Se)
		Mursh, K M, MSc	Principal (GSe)
		Vedpathak, D K, MSc	Sr Lectr (GSe)
		Bhatnagar, C S, MSc	Lectr. (GSe)
		Ghan, Mrs. S P, MSc	Lectr (GSe)
		Mukherjee, P K., MSc	Lectr. (SFS)
		Padiye, M D, MSc	Lectr (SFS)
		Sotha, D K, MSc	Demr (SFS)
		Deshmukh, P Z., MSc	Lectr (Sh)
		Shah, Mrs. Umak, MSc	Lectr (Sh)
		Sainis, L. B., MSc	Lectr. (Ch)
		Nar, K V, MSc	Demr (Ch)
		Purekar, P. N., MSc	Lectr (N)

## Ayurveda

Mulay, P D	Principal (VAM)		
Tate, P R.	Prof. (VAM)		
Sahasrabudhe, D S.	Prof (VAM)		
Kashekar, D. H	†Prof (VAM)		
Pathak, G. D	†Prof (VAM)		
Joshi, T. G.	†Prof (VAM)		
Karade, P. D	†Prof (VAM)		
Widwans, J T.	†Prof (VAM)		
Natu, G. D., MB BS	†Prof (VAM)		



## Chemistry

Asolkar, G. V., PhD *Chem & Nat.*, MSc

Sakthi, V. S., MSc PhD	Prof (Sc)
Katichkar, M. V., MSc	Asst Prof (Sc)
Mande, B. A., MSc	Asst Prof (Sc)
Thakre, O. B., MSc	Lectr. (Sc)
Mazumdar, W. A., MSc	Lectr. (Sc)
Tikhile, R. G., MSc	Lectr. (Sc)
Somn, S. V., MSc PhD	Lectr. (Sc)
Karne, Y. D., MSc	Lectr. (Sc)
Kate, S. R., MSc	Lectr. (Sc)
Kanhe, M. V., MSc	Lectr. (Sc)
Waxalwar, G. B., MSc	Lectr. (Sc)
Damle, M. H., MSc	Lectr. (Sc)
Bhat, N. H., MSc	Lectr. (Sc)
Kuplay, S. M., MSc	Lectr. (Sc)
Mahajan, P. B., MSc PhD	Lectr. (Sc)
Dube, Y. M., MSc	Lectr. (Sc)
Deshpande, V. V., PhD DSc <i>Levd</i>	Lectr. (Sc)
Nandapurkar, J. N., MSc	Asst Lectr (Sc)
Seelale, L. U., MSc	Asst Lectr (Sc)
Agre, Miss V. V., MSc	Asst Lectr (Sc)
Chang, C. M., MSc	Asst Lectr (Sc)
Shroter, P. G., MSc	Asst Lectr (Sc)
Joshi, G. M., MSc	Asst Lectr (Sc)
Gogte, H. P., MSc MEd	Asst Lectr (Sc)
Bhambhani, K. B., MSc	Asst Lectr (Sc)
Ghadgady, S. G., MSc	Asst Lectr (Sc)
Karmalkar, B. S., MSc	Sr. Lectr. (H)
Francis, A. M., MSc DPhil	Lectr. (H)
Joshi, V. W., MSc	Lectr. (H)
Mehra, R. S., MSc	Lectr. (H)
Narayana, S. Y., MSc	Lectr. (H)
Mahajan, A. S., MSc	Tutor (H)
Chavala, J. S., MSc	Demar (H)
Deshpande, G. M., MSc	Sr. Lectr. (M)
Bobde, M. V., MSc	Lectr. (M)
Chitale, R. P., MSc	Lectr. (M)
Phatak, V. B., MSc	Lectr. (M)
Werkhadpande, B. N., MSc	Lectr. (M)
Dorved, S. M., MSc	Lectr. (M)
Chopda, W. D., MSc	Lectr. (M)
Basu, S. B., MSc	Lectr. (M)
Shende, M. A., MSc	Lectr. (M)
Chavan, V. P., MSc	Lectr. (M)
Vaidya, Mrs P. W., MSc	Lectr. (M)
Tak, V. W., MSc	Lectr. (M)
Murathe, M. G., MSc PhD	Prof. (VM)
Sahndco, M. A., MSc	Lectr. (VM)
Parandiwari, M. D., MSc	Lectr. (VM)
Paradkar, M. K., MSc	Lectr. (VM)
Khandekar, P. S., MSc	Lectr. (VM)
Kulkarni, D. B., MSc	Lectr. (VM)
Serje, S. W., MSc	Lectr. (VM)
Keskar, A. Y., MSc	Lectr. (VM)
Paranjape, M. V., MSc	Lectr. (VM)
Gokhale, N. L., MSc	Lectr. (VM)
Handwadekar, P. H., MSc	Lectr. (VM)
Ghrya, B. J., MSc	Lectr. (VM)
Bhirkar, N. S., MSc	Lectr. (VM)
Kutumba, Miss K. R., MSc	Asst Lectr (VM)
Tare, V. E., MSc	Sr Lectr. (GSc)
Deshpande, W. G., MSc	Lectr. (GSc)

Dongre, M. B., MSc

Bhadang, B. S., MSc

Kale, M. V., MSc

Malik, S. P., MSc

Kulkarni, Miss D. N., MSc

Deb, Mrs. S., MSc

Mudali, J. G., MSc

Varugesh Pothar, MSc

Patwardhan, H. W., MSc

Tare, M. P., MSc

Joshi, W. W., MSc

Rajpal, J. M., MSc

Khare, R. R., MSc

Kaza, S. M., MSc

Gadgil, A. G., MSc

Bodhmag, M. R., MSc

Patil, D. M., MSc

Deshmukh, N. W., MSc

Mahajan, R. T., MSc

Wisu, V. K., MSc

Galkar, N. T., MSc

Wolkhande, C. P., MSc

Deshpande, D. D., MSc

Lectr. (GSc)

Lectr. (GSc)

Lectr. (GSc)

Lectr. (GSc)

Lectr. (W)

Lectr. (W)

Lectr. (AM)

Lectr. (AM)

Sr Lectr (SA)

Lectr (SA)

Lectr (SA)

Lectr (SA)

Lectr (SFS)

Lectr (SFS)

Lectr (SFS)

Lectr (SFS)

Lectr (Sh)

Lectr (Sh)

Lectr (Sh)

Lectr (Sh)

Lectr (Ch)

Lectr. (N)

Lectr. (N)

## Commerce

Tukha, M. R., MA(Econ) BCom LLB *Lech.*

	Prof., Principal (CN)
Chorghade, V. K., MA BT	Sr Lectr (CN)
Khare, H. K., MCom	Sr. Lectr. (CN)
Jain, V. S., MCom	Sr Lectr. (CN)
Bokaria, M. G., MCom PhD	Sr Lectr. (CN)
Jain, R. K., MCom	Sr Lectr. (CN)
Garge, B. N., MCom	Sr Lectr. (CN)
Chande, S. G., MCom	Sr Lectr. (CN)
Belge, M. W.	Lectr (CN)
Apasmit, C. R., MCom	Lectr (CN)
Joshi, V. R., MCom	Lectr (CN)
Sharma, D. P., MCom LLB	Lectr (CN)
Uthalkar, A. S., MCom	Lectr (CN)
Savara, P. S., MCom	Lectr. (CN)
Rajurkar, R. J., MCom	Lectr (CN)
Badjale, S. S., MCom LLB	Lectr (CN)
Gewande, P. S., MCom	Lectr. (CN)
Rathi, A. S., MCom	Lectr. (CN)
Shah, M. M., MA PhD <i>Bom.</i>	
	Prof., Principal (CW)
Chandekar, V. U., MA BCom	Sr. Lectr. (CW)
Shrinayan, M. A., BCom	Sr. Lectr. (CW)
Hatkar, D. J., MA	Sr. Lectr. (CW)
Vora, R. D., MCom	Sr. Lectr. (CW)
Vemali, B. D., MCom	Sr. Lectr. (CW)
Jacoe, N. S., MCom	Lectr. (CW)
Patil, R. K., MCom	Lectr (CW)
Karve, S. V., MCom	Lectr. (CW)
Jagtap, U. Y., MCom	Lectr. (CW)
Deshmukh, P. J., MCom	Lectr. (CW)
Kasat, S. P., MCom	Lectr (CW)
Kaple, B. J., MCom	Lectr. (CW)
Shukla, G. S., MCom	Lectr (CW)
Daryani, G. S., MCom	Lectr (CW)
Deshmukh, N. C., MCom	Principal (Sh)
Khanolkar, A. L., MCom	Sr Lectr (Sh)
Kale, W. S., MCom	Sr. Lectr (Sh)

Mahatma, M A, MA	Lectr (Sh)	Deshpande, S A, MA	Lectr. (G)
Shubham, K. S., MCom	Lectr. (Sh)	Padnava, P. K., MA	Lectr. (C)
Kulkarni, S T, MCom	Lectr (Sh)	Hejib, S D, MA LLB	Lectr (C)
Boware, A R, MCom	Lectr (Sh)	Shenwan, V. S, MA	Lectr. (C)
Rode, M Y, MCom	Lectr (Sh)	Iyengar, Miss S, MA LT PhD	Sr Lectr (W)
Deshmukh, D K, MA BCom	Lectr. (Sh)	Joshu, Miss Sushila, MA	Lectr (W)
Dhoney, M G, MCom LLB	Lectr (Sh)	Nangoshi, Mis S, MA	Lectr (W)
Bhagade, D. A, MCom	Lectr. (Sh)	Deshmukh, Miss Snehalata, MA	Lectr (W)
Ambalkar, M. P., MCom	Lectr (Sh)	Bankar, D K, MA	Prof (VM)
Sony, R. G, MCom LLB	Sr Lectr. (GSc)	Lotha, A N, MA	Lectr (VM)
Kulkarni, K. G., MCom	Lectr. (GSc)	Joshu, L. G, MA PhD	Lectr. (VM)
Mohani, M. G, MCom	Lectr. (GSc)	Modak, S K, MA	Lectr (VM)
Kanoongo, G, MCom	Lectr (GSc)	Pitole, R. L, MA	Lectr (VM)
Upadhyaya, J. U., MCom	Lectr (GSc)	Dahl, G K, MA	Asst. Lectr (VM)
Chandak, B S., MCom	Lectr (SA)	Joshu, R M, MA LLB	Sr Lectr (Sh)
Bapat, M. S., MCom	Lectr. (SA)	Vadaya, G S., MA	Lectr. (Sh)
Gandhi, K. G., MCom LLB	Lectr. (SA)	Page, R K., MA LLB	Principal (SA)
Jawalekar, R V., MCom	Lectr (SA)	Deodhar, S. B, MA	Lectr. (SA)
Rande, P. S, MCom	Lectr (SA)	Choudhari, M. R., MA	Sr. Lectr (R)
Shah, N M., MCom	Lectr (SA)	Chorghade, V K, MA (Econ) BT	
Deo, V. K., MA	Lectr (SA)		Sr Lectr (CN)
Kakde, N K, MCom	Lectr (SA)	Blade, Miss S V., MA	Lectr. (GSc)
Deshpande, V L, MCom	Lectr (SA)	Jawandha, S H, MA	Lectr. (GSc)
Sao, B P, MA MCom	Lectr (G)	Upadeo, V W., MA	Lectr. (GSc)
Chaffe, R S, MCom	Lectr (G)	Pasanape, R W, MA	Lectr (GSc)
Devivedi, S P, MCom LLB	Lectr. (G)	Kharche, R N, MA	Principal (B)
Yandalkar, R S., MCom	Lectr (G)	Prabhu, A, BA	Lectr. (SFS)
Shrivastava, R N, MA MCom	Lectr (G)	Rebeiro, Rev Fr A, BA	Lectr. (SFS)
Dewey, S D, MA LLB	Principal (V)	Kheker, M H, MA	Lectr. (AM)
Sarode, C A., MCom	Lectr (V)	Joshu, A. S, MA BCom LLB	Lectr (AM)
Shrivastava, J K, MCom	Lectr (V)	Mishra, B L, MA	Lectr. (G)
Kelkar, S B, MA	Lectr (V)	Rathu, V M, MA	Lectr. (G)
Kande, S S, MCom BA	Lectr (V)	Bhude, V A, MA	Lectr (Ch)
Telang, G R, BA	Lectr (V)	Nanekar, K. R, MA PhD	Lectr., U Dept
Nagode, V M, MCom	Lectr (Ch)	Gowade, R. T, MA LLB	Lectr (DMV)
Thakre, T B, MCom	Lectr (Ch)	Wakhare, D. S, MA	Lectr (MFPM)
Lanjewar, M M, MA BCom LLB	Principal (N)	Khandewale, S. V., MA	Lectr (CPB)
Peshine, R K, MCom	Lectr. (N)	Sapre, K. R, MA	Lectr (Y)
Chmunkar, D S, MCom	Lectr. (N)	Aloni, V. A, MA	Lectr (Aj)
Gulhane, P K, MCom LLB	Lectr (N)	Deshpande, P. A, MA	Lectr (Raj)
Lokras, P V., MA BCom LLB	Principal (D)	Purevik, B. M, MA	Lectr. (SPM)
Shende, P. L., MCom	Lectr (D)	Munshi, D. M., MA MCom	Principal (K)
Rathi, M. N, MCom	Lectr. (P)	Kulkarni, R. R, MA	Lectr (D)
Johari, M S, MCom	Lectr. (Hi)	Pandey, V N., MA	Lectr (P)
Jobanputra, S. C., MCom	Lectr (Hi)	Patwardhan, P N, MA	Lectr. (Hi)
Mutha, J. R, MCom	Lectr (Hi)	Kulkarni, V S., MA	Lectr (AD)
Tatto, R G, MCom	Principal (AD)	Joshu, A S, MA BCom LLB	Principal (Mh)
Gujar, M N, MCom	Lectr (AD)	Soni, G K, MA BSc	Lectr (L)
Saigs, P K, MCom	Lectr. (KN)	Velankar, S. N., MA	Lectr (L)
		Phadke, D M, MA	Lectr (KN)

## Economics

Bal, S. D., MA LLB	Prof (NM)
Pati, P. A., MA LLB MCom	Lectr (NM)
Ozarkar, S. R, MA	Lectr (NM)
Davod, S V, MA	Lectr (NM)
Dabhadgao, D B, MA	Lectr. (NM)
Pimparkar, G P, MA	Sr Lectr. (H)
Gms, J F, MA	Lectr (H)
Singh, V D, MA	Lectr. (H)
Ayachit, R. P., MA	Lectr. (H)
Pimparkar, M T., MA BSc	Lectr. (H)
Deshmukh, B. S., MA	Lectr (N)
Patil, M. A, MA	Lectr (N)
Munje, B. H., MA	Sr. Lectr. (C)

## Education

Tembhane, S N, MA MEd	Principal (UTC)
Dhabe, Miss Pramila W, MA LLB MEd	
	Lectr (UTC)
Dalshindas, R. V., BSc MEd LLB	Lectr. (UTC)
Karkate, M G, MA MEd	Lectr. (UTC)
Purank, G A, BA MEd	Lectr (UTC)
Muley, R. S, MA MEd	Lectr. (UTC)
Joshu, Mrs Yamunabai, MA MEd	Lectr. (UTC)
Kashyap, Miss A., MA LT	Lectr. (UTC)
Pandey, M. B., MA BSc MEd	Lectr. (UTC)
Deshpande, K. H., MSc LLB MEd	Lectr. (UTC)
Weinakar, P. G, MA MEd	Lectr (UTC)





Kale, Miss Sanjivana, MA	Asst Lectr (NM)	Koshattwani, K. M., MA	Lectr (H)
Tamaskar, B. G., MA	Prof. (VM)	Kothare, Miss S. S., MA	Lectr (C)
Khan, A. Q., MSc	Lectr. (VM)	Shorey, S. D., MA	Lectr. (C)
Khandwe, M. A., MA	Lectr. (VM)	Telang, P. S., MA	Lectr. (VM)
Jam, N. G., MA	Lectr. (VM)	Mahaling, K. L., MA	Lectr. (VM)
Upadhye, M. K., MA	Lectr. (VM)	Deshpande, A. D., MA	Lectr. (AM)
Deodhar, V. H., MA	Lectr. (VM)	Abraham, K., BA	Lectr. (SFS)
Shastri, Miss Vimal, MA	Lectr. (W)	Pathak, Mrs. Damayanti, MA	Lectr. (W)
Patil, V. R., MA	Lectr. (W)	Mani, Miss Kamala, MA	Lectr. (W)
Chichlu, Miss B., MA	Lectr. (W)	Kaul, H. M., MA	Lectr. (G)
Naidu, Miss Shale, MA	Tutor (W)	Apte, B. K., MA	Reader, U. Dept.
Muthal, B. L., MA	Lectr. (Ch)	Acharya, K. A., MA BT Med	Lectr. (SA)
Bashne, V. K., MA	Tutor (Ch)	Dhawan, P. K., MA	Lectr. (Sh)
Chavandula, P. B., MA	Lectr. (G)	Ranade, P. V., MA	Lectr. (DMV)

**Geology**

Sripada Rao, K., MSc, FGS, FNI	Prof, Hd of U Dept.		
Pande, P. C., MSc	Reader		
Suryanarayana, K., MSc	Lectr.		
Deshpande, G. G., MSc	Lectr.		
Giri, M. B., MSc MA	Lectr.		
Dehate, Y. G., MSc	Lectr.		
Sappal, K. K., MSc	Lectr.		
Ramalingachari, G., MSc	Lectr.		
Mohabey, N. K., MSc	Lectr.		
Khot, S. S., MSc	Sr. Lectr. (M)		
Deshpande, V. J., MSc	Lectr. (M)		
Saraf, B. K., MSc	Lectr. (M)		

**Hindi**

Borsonkar, Mrs. S., BA	Lectr (NM)		
Verma, S. S., MA	Lectr. (NM)		
Shrivastava, V. P., MA	Sr. Lectr (H)		
Sengh, J. S. M., MA	Lectr. (H)		
Sahu, G. P., MA	Tutor (H)		
Gupta, G. N., MA	Sr. Lectr. (C)		
Bagaddeo, Mrs. Tusa, MA	Sr Lectr (W)		
Lall, Mrs. K., MA	Lectr (W)		
Shrivastava, R. K., MA	Lectr. (SA)		
Ayachar, B. R., MA	Lectr. (VM)		
Tambat, R. D., MA	Asst Lectr (VM)		
Moholkar, M. R., MA	Lectr. (Sc)		
Dunge, S. A., MA	Lectr. (GSc)		
Jhawe, L. N., MA	Lectr. (M)		
Bais, J. B., MA	Lectr. (AM)		
Jain, Miss Shanta, MA	Lectr. (SFS)		
Thakur, H. R., MA	Lectr. (SFS)		
Verma, K. K., MA BT LLB	Principal (G)		
Verma, R. B. L., MA	Lectr. (G)		
Gandhe, Mrs. Indumati, MA	Lectr. (A)		
Jha, B. L., MA MEd	Lectr. (Ch)		
Putnak, K. K., MA LLB PhD	Reader, U. Dept.		
Sharma, R., MA	Lectr. (Sh)		
Jain, P. B., MA	Lectr. (Raj)		
Rathi, P. D., MA	Lectr. (V)		
Mantri, M. J., MA			

**History**

Deoras, V. R., MA PhD	Prof. (NM)		
Mishra, P. L., MA	Lectr. (NM)		
Gedam, T. V., MA LLB	Lectr. (NM)		
Anchare, B. R., MA	Asst. Lectr. (NM)		
Renick, N. S., MA	Lectr. (H)		

**Home Science**

Limaye, Mrs. K. S., BSc	Lectr. (C)		
Dantale, Miss S. R., BSc	Lectr. (C)		
Page, Miss N., BSc	Lectr. (W)		
Garde, Miss N., BSc	Lectr. (W)		
Rai, Mrs. Rajani, BA BSc LLB	Lectr. (W)		
Mulay, Miss Saral, BA BSc	Lectr. (W)		
Sinha, Miss Kanta, MA BSc LLB	Lectr. (W)		
Avasthi, Miss Aruna, BA BSc	Lectr. (W)		
Deshmukh, Miss Nalini, BSc	Lectr. (Sh)		
Dhobley, Miss Suman, MA BSc	Lectr. (Ch)		

**Horticulture**

Kathale, C. N., MSc(Agr)	Lectr. (AA)		
Farooqi, M. M., MS Calf	Prof. (A)		
Karawala, D. N., MSc(Agr)	Lectr. (A)		
Patil, A. V., MSc	Lectr. (A)		
Thoke, N. G., MSc(Agr)	Lectr. (Sh)		

**Journalism**

Engen, K. E., BA LLB MS	Sr. Lectr. (H)		
Kosipala, V., MS Jy., BA	Lectr. (H)		
Critchfield, R. P., MA Cal.	Lectr. (H)		
Groark, Miss R., MA	Lectr. (H)		

**Latin**

Naxanth, Rev. Fr. A.	Lectr. (SFS)		
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**Law**

Chubhal, V. B., BA LLB	Lectr. (Sh)		
Agarwal, N. S., BA LLB	Lectr. (Sh)		
Bobde, G. S., BA LLB	Lectr. (Sh)		
Sinha, D. R., BA LLB	Lectr. (Sh)		
Zaveri, C. N., BA LLB	Lectr. (Sh)		
Janardhan Rao, S., LL.M. Hve., BSc	Principal (LC)		
Wad, S. B., MA LL.M	Lectr. (LC)		

Karekar, P. N., MA	Lectr (LC)	Mohagankar, V. P., MA LLB	
Padhye, V. R., BSc LLB	Lectr (LC)		Prof., Principal (R)
Gadgil, P. B., BA LLB	Lectr (LC)	Sahasrabudhe, P. G., MA	Si. Lectr. (GSc)
Ranade, B. B., BA LLB	Lectr (LC)	Jahagirdar, B. R., MA	Lectr. (GSc)
Qureshi, M. M., BA LLB	Lectr (LC)	Dokey, R. B., MA	Lectr. (AM)
Chandurkar, M. N., MA LLB	Lectr (LC)	Kalsavant, S. K., MA	Lectr. (AM)
Sohoni, W. A., MA LLB	Lectr (SA)	Chavan, H. E., MA	Lectr. (B)
Gadbole, D. G., BA LLB	Lectr (SA)	Hegib, P. G., MA	Lectr. (SFS)

## Library Science

Hote, D. M., BA DipLabSc	Lectr., U. Dept.
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Dutta, D. N., BA DipLabSc	Lectr.
Kulkarni, S. M., BA DipLabSc	Lectr.

## Local Self-Government and Public Administration

Murti, V. S., MPA Haru., MA	Reader, Hd. of U. Dept.
Dave, S. L., MA	Lectr.
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Valson, E. H., MA	Lectr.
Pundlik, D. A., MB BS DPH	Lectr.
Singh, V., BSc (Eog)	Lectr.
Kolhekar, R. J., BA LLB	Lectr.
Patwardhan, R. S., BE	Lectr.
	Reader, U. Dept.
	Lectr., U. Dept.
	Lectr. (CN)
	Principal (DMV)
	Principal (MPM)
	Lectr. (CPB)
	Lectr. (Y)
	Lectr. (Y)
	Lectr. (Aj)
	Lectr. (Raj)
	Principal (SPM)
	Lectr. (K)
	Lectr. (D)
	Lectr. (P)
	Lectr. (Ht)
	Lectr. (AD)
	Lectr. (Mh)
	Lectr. (L)
	Lectr. (KN)

## Marathi

Kolte, V. B., MA PhD LLB	Principal (NM)
Doike, G. M., MA	Lectr. (NM)
Mukhtibadi, S. M., MA	Lectr. (NM)
Joshi, Miss Vagya, MA	Asst. Lectr. (NM)
Kolte, Miss Nishi, MA	Asst. Lectr. (NM)
Pendse, S. D., MA MOL PhD	Sr. Lectr. (H)
Deshpande, A. N., MA PhD	Lectr. (H)
Ayachit, R. P., MA	Lectr. (H)
Rolade, M. R., MA	Lectr. (H)
Apte, Miss V., MA	Lectr. (H)
Sawalapurkar, P. K., BA	St. Lectr. (C)
Kulkarni, S. M., MA	Sr. Lectr. (C)
Bhatule, M. K., MA	Lectr. (C)
Paranjpe, B. S., MA	Lectr. (C)
Veradpande, V. K., MA	Lectr. (M)
Purohit, V. S., MA	Tutor (M)
Marathe, Mrs. K., MA	Sr. Lectr. (W)
Kolarkar, Miss Kusum, MA	Lectr. (W)
Patil, Miss Sushila, MA	Tutor (W)
Khanolkar, S. S., MA	Lectr. (Sc)
Serpawar, M. N., MA	Asst. Lectr. (Sc)
Shanware, S. K., MA	Lectr. (N)
Lohi, M. N., MA	Lectr. (N)
Korekar, P. K., MA	Lectr. (N)
Nata, Mrs. M. G., MA	Prof. (VM)
Vaidyn, S. V., MA	Lectr. (VM)
Peshkar, K. V., MA	Lectr. (VM)
Tikam, S. G., MA	Lectr. (VM)
Joshi, Miss V. L., MA	Lectr. (VM)
Vyavhare, M. L., MA	Sr. Lectr. (Sh)
Mandalkar, B. M., MA	Lectr. (Sh)
Pande, Mrs. Sunanda, MA	Lectr. (Sh)
Bhalero, M. J., MA	Lectr. (Sh)
Nande, Miss Kusum, MA	Lectr. (SA)
Deshpande, S. V., MA	Lectr. (SA)
	Deskar, Miss P. G., MA BT
	Mahatma, B. D., MA
	Dhumale, P. V., MA
	Nandurkar, J. P., MA
	Mhamalkar, Miss P. T., MA
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	Mathur, Y. V., MSc
	Kulkarni, R. S., MSc
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	Mangalga, S. R., MSc
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	Asst. Prof. (Sc)
	Lectr. (Sc)
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	Lectr. (Sc)
	Lectr. (Sc)
	Lectr. (Sc)
	Lectr. (Sc)
	Asst. Lectr. (Sc)
	Asst. Lectr. (Sc)
	Sr. Lectr. (IT)
	Lectr. (H)
	Lectr. (H)
	Lectr. (H)
	Lectr. (H)
	Principal (M)
	Sr. Lectr. (M)
	Lectr. (M)
	Lectr. (M)
	Lectr. (VM)
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	Lectr. (VM)

Ingole, S. N., MSc	Lectr. (VM)	Darwad, N. S., MA	Lectr., U. Dept.
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Tupkar, D. H., MSc	St. Lectr. (AM)	Akolkar, V. V., MA	Prof. (VM)
Saraf, S. W., MSc	Lectr. (AM)	Deshpande, D. Y., MA	Lectr. (VM)
Joshi, M. G., MSc	Sr. Lectr. (SA)	Jakate, D. S., MA	Lectr. (VM)
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Bhat, N. V., MSc	Lectr. (SA)	Bhat, Miss S. S., MA	St. Lectr. (SA)
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Sonune, R. K., MSc	Lectr. (Sh)	Dandekar, R. G., MA	Lectr. (R)
Nandanwar, L. K., MSc	Lectr. (N)	Joglekar, S. D., MA	St. Lectr. (GSc)
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		Macarthy, Rev. Fr., PhD Rowe	Lectr. (SFS)
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		Kawale, P. V., MA	Lectr. (MB)

### Medicine, see below

### Music

Khandenav, P. N.	Lectr. (NM)		
Kokje, A. K.	Lectr. (NM)		
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Deshpande, V. V., BA BSc	Tutor (W)		
Parkhi, Miss V. S., BA	Lectr. (C)		
Kadlikar, M. B., BA	Lectr. (VM)		
Naravallur, M. V., BA BT	Lectr. (VM)		
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### Pali and Prakrit, see also Sansk.

Killedar, S. J., MA	Lectr. (NM)		
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Deshmukh, V. K., MSc	Lectr.		
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Kellkar, A. K., MSc LLB	Lectr.		
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Grownl, R. S., DPhil	† Lectr.		
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### Philosophy

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Venma, V. K., MA	Lectr. (H)		
Joseph, W. N., MA	Lectr. (H)		
Deshpande, B. R., MA LLB	Sr. Lectr. (C)		
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Mona, M. T., MSc	Lectr. (Sc)		
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Deshmukh, K. G., MSc	Lectr. (Sc)		
Deshpande, G. T., MSc	Lectr. (Sc)		
Badhe, V. B., MSc	Asst. Lectr. (Sc)		
Walsungkar, P. G., MSc	Asst. Lectr. (Sc)		
Deshmukh, P. C., MSc	Asst. Lectr. (Sc)		
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Sharma, N. P., MSc	Asst. Lectr. (Sc)		
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Gupta, C. H., MSc	Lectr. (H)		
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Ghan, P. D., MSc	Lectr. (GSc)	Kim, N. G., MA	Lectr. (SFS)
Shigokar, R. G., MSc	Lectr. (GSc)	Falleiro, Rev Fr R., MA	Lectr. (SFS)
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Gopalakrishnan, T., MSc	Lectr. (AM)	Mahajan, G. H., MA	Principal (Ch)
Narasimhan, S. L., MSc	Lectr. (AM)	Patil, J. E., MA	Lectr. (Ch)
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Deshmukh, R. M., MSc	Lectr. (SA)	Deshpande, D. T., BA	Lectr. (DMV)
Deshpande, V. M., MSc	Lectr. (SA)	Bolsde, G. N., MA	Lectr. (MFM)
Sherwalkar, A. S., MSc	Lectr. (SA)	Dewan, C. V., MA	Lectr. (CPB)
Shahane, S. M., MSc	Lectr. (SFS)	Patwardhan, N. N., MA	Lectr. (Y)
Bodekar, V. S., MSc	Lectr. (SFS)	Deogaonkar, S. G., MA	Lectr. (Raj)
Apte, M. Y., MSc	Lectr. (SFS)	Galgalkar, H. R., MA	Lectr. (SPM)
Powthangal, G., MSc	Lectr. (SFS)	Deshpande, M. K., MA LLB	Lectr. (D)
Banerjee, S. K., MSc	Lectr. (Ch)	Dafde, R. B., MA	Lectr. (P)
Shastri, M. V. S., MSc	Lectr. (Ch)	Somwanshi, G. M., MA	Lectr. (AD)
Zamwar, C. K., MSc	Lectr. (Sh)	Deshpande, Miss Mukta, MA	Lectr. (Mh)
Supe, D. S., MSc	Lectr. (Sh)	Koharkar, S. G., MA	Lectr. (K)
Wani, P. B., BA	Lectr. (Sh)	Nafde, S. W., MA	Lectr. (KN)
Chandurkar, P. N., MSc	Lectr. (N)		
Kale, R. G., MSc	Lectr. (N)		

## Plant Pathology

Wankar, B. N., MSc (Agr)	Lectr. (A)
Shinde, P. A., MSc (Agr)	Lectr. (A)
Wanglikar, P. D., MSc (Agr)	Lectr. (A)
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## Political Science

Kashikar, S. G., MA	Lectr. (NM)
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Shivnivasan, Mrs Matsai, MA	Asst Lectr. (NM)
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Batra, N. S., MA	Sr Lectr. (H)

## Psychology

Shesh, D. B., MA PhD	Sr Lectr. (H)
Dhobley, A. J., MA	Lectr. (H)
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Vaidya, S. S., MA	Dem. (H)
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**Public Administration, see Local  
 Self-Government**

**Sanskrit, Pali and Prakrit**

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**Statistics**

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**Technology (LFT)**

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**Urdu**

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**Veterinary Science**

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 Mohateda, S. N., BSc (Vet) Prof. (Vet)  
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**Zoology**

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Bodani, Miss P. R., MSc	Lectr. (N)		
Patwardhan, S. S., DSc	Lectr. (SFS)		
Powar, C. B., MSc	Lectr. (SFS)		
Iyer, Miss S. K., MSc	Demr. (SFS)		

## MEDICINE (M)

## Anatomy

Bansal, P. C., MB MS, FRCS	Prof
Kane, M. G., MB BS MSc	Lectr
Hardas, K. P., MB BS MSc(Med)	Lectr
Kote, B. R., MB BS MSc	Lectr
Kadane, D. K., MB BS	Jr. Lectr
Kolte, P. M., MB BS	Jr. Lectr
Gosavi, V. S., MB BS	Jr. Lectr
Indurkar, G. M., MB BS	Jr. Lectr
Bondre, M. N., MB BS	Jr. Lectr

## Medicine

Betty, J. N., MD DCH, MRCP	Prof
Sainani, G. S., MD BS	Reader
Subedar, B. J., MD BS	Lectr.
Nawar, M., MB BS	Jr. Lectr
Jain, K. L., MB BS	Jr. Lectr
Deshmukh, P. Y., MB BS	Jr. Lectr
Choubay, B. S., MD BS	Jr. Lectr
Gowardhan, V. M., MB BS DTM	Med Officer
Bhargava, H. S., MD BS	Med Officer
Markand, O. N., MB BS	Med Officer

Medan, M. S., MB BS	Resident Physician
Rajkondawar, V. L., MB BS	Jr. Registrar

## Medicine, Forensic

Rosato, E. P., MB BS	Lectr.
Franklin, C. A., MB BS	Jr. Lectr

## Medicine, Preventive and Social

Ramdas, D. K., MSc Hare, MB BS	
MSc(Med) DPH DII DTM	Prof
Kethar, Y. A., MB BS DPH	Lectr
Joshi, H. P., MB BS	Jr. Lectr

## Midwifery and Gynaecology

Devi, Miss P. K., MB MS, FRCS	Prof
Shastrikar, Miss V. D., MB BS MO	Reader
Dalal, Miss N. D., MB BS DGO	Lectr
Banerjee, Miss R. B., MB BS	Lectr
Bakshi, Miss S. J., MB BS MO	Tutor
Bhattacharyya, P., MB BS	Jr. Registrar
Musundar, Miss S. B., MB BS MO	Jr. Registrar
Tulpule, Miss N. P., MB BS MO	Jr. Registrar
Moolchand, Miss N. G., MB BS MO	Jr. Registrar
Wadehra, Miss S., MB BS	Jr. Registrar

## Ophthalmology

Ishwachandra, MB MS DO	Prof
Agrawal, K. N., MB MS DO	Jr. Lectr
Mishra, R. K., MB BS DO	OPD Med Officer
Shukla, S. P., MB BS DO	Jr. Registrar
Lall, J. S. S., MB BS	Refractionist

## Paediatrics

Sur, A. M., MB BS DCH, MRCP	Lectr.
Khandelwal, M. K., MB BS DCH	Jr. Lectr
Thirali, J. C., MB BS	Jr. Registrar

## Pathology

Junnarkar, R. V., BSc MD BS	Prof.
Sharma, K. D., MB BS MSc(Med) MPhil.	Reader
MD	
Hardas, Miss U. D., MB BS MSc(Med)	Reader
Patra, N. K., MB BS	Jr. Lectr
Pathankar, M. T., BSc MB BS	Jr. Lectr
Moghe, K. V., MB BS MSc(Med)	Jr. Lectr
Vyawahare, S. M., MB BS	Jr. Lectr
Kher, Mrs. M., MB BS	Jr. Lectr
Agarwal, R. V., MB BS	Jr. Lectr
Grover, Mrs. S., MB BS	Jr. Lectr

## Pharmacology

Grewal, R. S., BSc MB BS DPhl	Prof
Sharma, M. L., MB BS MSc(Med)	Lectr
Dashputra, P. G., MB BS	Jr. Lectr
Kherdikar, P. R., MB BS	Jr. Lectr
Joshi, N. K., MB BS	Jr. Lectr
Jaiswal, C. L., MB BS	Jr. Lectr

Physiology			
Sen, S. C., MB MSc DTM	Prof	Dixit, S. D., MB BS	Jr Lectr
Khandani, S. S., MB BS MSc(Med)	Reader	Chancholia, V. S., MB BS	Jr Lectr
Vashwanth, Mrs Indu, MSc MB BS	Lectr	Soni, P. H., MB BS	Jr Lectr
Soed, J. L., MB BS	Jr Lectr	Palwal, P. M., MB BS	Jr Lectr
Deshpande, J. N., BSc MB BS	Jr Lectr	Bhagwat, D. S., MB BS	Resident Surgeon
Shukla, R. D., MB BS	Jr Lectr	Das, R. N., MB BS	O.P.D. Surgeon
Tiwaskar, H. V., MSc	Jr Lectr	Duba, M. S., MB BS	Sr Anaesthetist
Khan, J. R., MB BS	Jr Lectr	Singh Kuldip, MB BS	Jr Surg. Registrar
Ingle, K. N., MB BS	Jr Lectr	Munje, S. R., MB BS	Jr Surg. Registrar
Joish, Miss O. Y., MB BS	Jr Lectr	Dave, K. S., MB BS	Jr Surg. Registrar
		Deshmukh, G. M., MB BS	
		Med. Officer in charge of Div. of Ear, Nose and Throat	
Radiology		Tuberculosis	
Tungat, S. V., MB BS	Sr. Radiologist	Mazumdar, S. S., MB BS DTD	
Ringsangankar, K. G., MB BS	Jr Radiologist		
Surgery			
Deodhar, D. S. C., MS, FRCS	Prof	Dighe, R. C., MB BS DTD	Sr Med. Officer
Gharapure, V. G., MB BS	Reader	Kunte, A. B., MB BS	Med Officer
Dehmane, J. V., BSc MB BS	Sr Lectr	Dave, V. B., MB BS	Pathologist
Wankar, V. N., MB BS	Lectr.	Chandrashekar, R. S., MB BS	Anaesthetist

## UNIVERSITY COLLEGES

[(LC), (LIT), etc.—abbreviations for reference to the Colleges in Teaching Staff list, above, LLB, BTech, etc., after the name of a coll. means that courses are provided there for LLB, BTech, etc.]

LAW COLLEGE, Nagpur (LC) (tel. 2920)  
LLB, LL.M. Principal—S. Jinaradhan Rao,  
LL.M. Hons., BSc

Nagpur (LIT) (tel. 3025). BTech, MTech.  
Dn.—P. S. Menon, DIC, BSc PhD Lond

UNIVERSITY TRAINING COLLEGE, Nagpur  
(UTC) (tel. 5823) DnT, BT, MEd. Principal  
—S. N. Tamhane, MA MEd.

LAXMINARAYAN INSTITUTE OF TECHNOLOGY,

## UNIVERSITY TEACHING DEPARTMENTS

DEPT. OF ANCIENT INDIAN HISTORY AND  
CULTURE. MA, PhD. Prof. & Hd. of Dept.—  
V. V. Mirashi, MA DLitt

DEPT. OF BIOCHEMISTRY (tel. 3025). MSc,  
PhD. Prof. & Hd. of Dept.—M. C. Nath, DSc,  
FNI, FRIC.

DEPT. OF GEOLOGY (tel. 5834) BSc, MSc,  
PhD. Prof. & Hd. of Dept.—K. Sripada Rao,  
MSc, FGS, FNI

DEPT. OF LIBRARY SCIENCE (tel. 5930) Dip  
LibSc Hd. of Dept.—N. N. Gadgil, MA  
MEd LLB DipLibSc.

DEPT. OF LOCAL SELF-GOVERNMENT AND

PUBLIC ADMINISTRATION MA, PhD, DipPolSci.  
Reader & Hd. of Dept.—V. S. Mehta, MPA  
Hons., MA.

DEPT. OF PHARMACY. BPharm. Reader & Hd.  
of Dept.—R. L. Nikole, DrResNat Tobaccos,  
MPharm.

DEPT. OF POLITICAL SCIENCE. MA, PhD. Prof.  
& Hd. of Dept.—N. R. Deshpande, AM PhD Cal.,  
MA LLB.

DEPT. OF POSTGRADUATE TEACHING IN HUMANI-  
TIES (tel. 5930) MA, PhD. Officer-in-Charge  
—V. V. Mirashi, MA DLitt

## OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

AKOLA, Govt. College of Agriculture (AA)  
BSc(Agr) Principal—M. A. Haq, MS Texas

AKOLA, Govt. Training College (UTC) BT.  
Principal—R. H. Munje, MSc Baw, DipEd Brit.

AKOLA, Syedali Arts College (SA). BA, BCom,  
BSc, LLB. Principal—R. K. Page, MA LLB

AKOT, Shriji College (Ak) BA Principal—  
G. M. Sonawane, MA BT.

AMBAVATI, *Govt Dip T Inst for Men (DipTM)*,  
DipT Principal—N R. Parasnis, MA BT TD  
PhD

AMBAVATI, *Govt Dip T Inst for Women*  
(DipTW) DipT Principal—Mrs S. L.  
Deoskar, MA BT

AMBAVATI, *Govt Postgraduate Basic Training*  
College (ABT) BT(Basic) Principal—N R.  
Parasnis, MA BT TD PhD

AMBAVATI, *Raj Mahavidyalaya (Raj)* BA  
Principal—G. R. Kotwal, MA BLitt Oass.

AMBAVATI, *Shree Shriy College (Sh)* BA,  
BSc, BSc(Agr), BCom, MCom, LLB. Principal  
—N C. Deshmukh, MCom

AMBAVATI, *Shri Shreeji B.T. College (ShT)*  
BT Principal—Miss Shantabai Raje, MA BT.

AMBAVATI, *Vidarbha Ayurved Mahavidyalaya*  
(VAM) BAMS Principal—P. D. Mulay

AMBAVATI, *Vidarbha Mahavidyalaya (VM)*  
BA, MA, BSc, MSc Principal—S. M. H.  
Khatib, MSc PhD

BULDANA, *Jyauata Mahavidyalaya (B)* BA.  
Principal—R. N. Kharche, MA

CHANDIA, *Jyauata College of Education (JT)*  
DipT, BT Principal—S. K. Jha, MA BSc Med

CHANDIA, *Jyauata Mahavidyalaya (Ch)* BA.  
Principal—G. H. Mahajan, MA

DARYAPUR, *Arts & Commerce College (D)*. BA,  
BCom Principal—P. V. Lakas, MA BCom  
LLB

DRAMANGALON, *Adarsh Mahavidyalaya (AD)*.  
BA, BCom. Principal—R. G. Tette, MCom.

GONDIA, *N.M.D. Mahavidyalaya (G)*. BA,  
BCom. Principal—K. K. Verma, MA BT LLB.

HIRANGHAT, *R.S. Budhar College of Arts &*  
*Commerce (Ht)*. BA, BCom. Principal—

KARANJA, *Karnal Nathul College of Com-*  
*merce & Arts (KN)* BA, BCom. Principal—  
R. V. Soman, MA.

KAYOL, *Nahira Mahavidyalaya (K)* BA  
Principal—D. M. Munshi, MA MCom.

KHAMADON, *G.S. College of Science & Arts*  
(GSc). BA, BCom, BSc Principal—K. M.  
Munshi, MSc

MEKHAR, *Arts College (Mh)* BA Principal—  
A. S. Joshi, MA BCom LLB

NAGPUR, *College of Agriculture (A)* (tel. : 2378).  
BSc(Agr), MSc(Agr) Principal—R. C. Shri-  
vastava, MScTech Maw.

NAGPUR, *College of Science (Sc)* (tel. : 2481).  
BSc, MSc, MA (maths), PhD, DSc. Principal—  
L. B. Kapse, DSc.

NAGPUR, *C.P. & Bazar Societies Arts College*  
(CPB) (tel. : 3165) BA Principal—R. B.  
Murkute, MA LLB.

NAGPUR, *Dhansate National College (N)* (tel.  
2759) BA. Principal—M. M. Langewar, MA  
BCom LLB

NAGPUR, *Dharampath Arts & Science Maha-*  
*vidyalaya (DMV)* (tel. : 5983) BA. Principal—  
V. G. Velankar, MA BT

NAGPUR, *Govt. Polytechnic (GPN)* (tel. : 2483)  
Dipla in art and archit., BA(ich. Principal—  
K. N. Tiloo, BSc(Mech&Elec) Bau

NAGPUR, *G.S. College of Economics & Com-*  
*merce (CN)* (tel. : 2760) BCom, MCom. Prin-  
cipal—M. R. Tekhe, MA(Bcon) BCom LLB Lovk

NAGPUR, *Hinlop College (H)* (tel. : 2979) BA,  
MA, BSc, dipl & cert in journalism Principal  
—D. G. Moses, MA *Madr*, AM PhD Col

NAGPUR, *Lady Auribon Daga College for*  
*Women (W)* (tel. : 2550) BA, BSc(Hons  
Science). Principal—Miss M. A. Saldanha, MA  
MS MEd PhD.

NAGPUR, *Medical College (M)* (tel. : 2488).  
MB BS, MD, MS, MO, MSc(Med), PhD, dipla  
in ophthalmol., anaesthesiol., gynaeol. & obstet.  
Dean—P. L. Power, MS.

NAGPUR, *M.M. College of Science (M)* (tel. :  
2992) BSc Principal—N. A. Shastri, MSc.

NAGPUR, *Nagpur Mahavidyalaya (NM)* (tel. :  
2358) BA, MA. Principal—V. B. Kolte, MA  
PhD LLB

NAGPUR, *Nagpur Veterinary College (Vet)* (tel. :  
2058). BVSc. Principal—S. V. Sahasrab, MSc  
Jonn, BSc(Vet).

NAGPUR, *Regional Engineering College (E)* (tel. :  
3569). BE Principal—A. D'Souza, BA BE.

NAGPUR, *S.B. City College (C)* (tel. : 2860)  
BA. Principal—B. R. Deshpande, MA LLB.

NAGPUR, *St Francis De Sales' College (SFS)*  
(tel. : 3810) BA, BSc Principal—Rev Fr  
A. J. Mahin, MA *Calif*, MEd *Los Angeles*

WARDHA, *G.S. College of Commerce (CW)*.  
BCom, MCom Principal—M. M. Shah, MA  
PhD Bcom.

WARDHA, *Sahebraud College of Education (S)*.  
DipT, BT Principal—N. P. Koolia, BA MEd

WARDHA, *Yeshwant Arts College (Y)*. BA  
Principal—S. G. Sonawar, MA

WARDHA, *Mahatma Fale Mahavidyalaya (MFM)*.  
BA Principal—Y. M. Puthali, MA LLB

WARDHAM, *Rajasthan Aryan College (R)* BA  
Principal—V. P. Mahagonkar, MA LLB

YATVAL, *Amalchand Mahavidyalaya (AM)*  
BA, BSc Principal—N. B. Paraskar, MA.

YATVAL, *Vanyas Mahavidyalaya (V)*. BCom  
Principal—S. D. Datey, MA LLB.

## ADMINISTRATIVE AND OTHER STAFF

Asst Registrars M. R. Thakur, MA LLB (Admin); . . . (Finance); M. P. Masdakar, MA LLB (Acad.). Officer-in-Charge, Phys. Educn. M. P. Mayor. Univ. Med. Officer: P. U. Deshpande, MB BS. Supt., Univ. Hostels: . . .

Dr. P. S. Khanolkar Sec. (ex officio), Students' Information Bureau. V. S. Murty, MA MPA. Lady Warden, Sadaparna Hostel. Miss S. Dedolkar.

## GENERAL INFORMATION

The univ. was establd. in 1923. Its jurisdiction extends over the districts of Akola, Amravati, Bhandara, Buldhana, Chanda, Nagpur, Wardha and Yavatmal in Maharashtra state. Teaching is provided partly through the affiliated colleges and partly through the teaching depts. of the univ. itself.

**CONSTITUTION.** The court is the supreme governing body with power to revise the acts of the exec. and academic councils. The exec. council is the chief exec. body; it controls univ. funds and, subject to certain limitations, it makes the ordinances. The exec. council consists of the vice-chancellor, treasurer, deans of facs., 5 members elected by court, 2 principals of non-govt. colls., 4 members (elected by acad. council) who are not principals of non-govt. colls., and 3 members nominated by the state govt. The academic council, the chief academic body, constitutes facs. and depts. of study, prepares syllabuses and recommends ordinances relating to admission to exams. and degrees. The facs. (see below) recommend subject syllabuses to the academic council on the recommendation of the bds. of studies; no ordinances relating to courses of study, exam. standards and other academic matters are made by the exec. council unless the opinion of the relevant fac. has been obtained. The facs. constitute bds. of studies which prepare courses of study. There is also a statutory finance ctee. with power to examine receipts and expenditure, to allocate funds and to sanction expenditure.

**INCOME (1960-61)** Rs. 3,099,071 (govt., 21 per cent.; fees, 60 per cent.; other, 19 per cent.)

**FACULTIES AND DEANS.** *Agric.*, Dr. K. G. Joshi; *arts*, Principal V. B. Kolte (Marathi); *comw.*, Prof. M. R. Tekhi; *educn.*, Principal R. H. Munje; *engnr. & technol.*, Principal A. D'Souza; *law*, Justice S. P. Kotval; *med.*, Dr. P. L. Power; *sci.*, Prof. L. B. Kapse (bot.).

**UNIVERSITY LIBRARY** 103,235 vols. (incl. librs. of univ. teaching depts.).

**ADMISSION.** Admission to the univ. is confined to students who have passed the high sch. cert. exam. held under C.P. High Sch. Educn. Act of 1922 or bd. of sec. educn., Madhya Pradesh or Vedarbha or any other recog. equivalent exam. The univ. began pre-univ. exams in 1957-58.

**FIVE DEGREES** BA, BCom, BSc, BSc(Agr.), 3 yrs. after pre-arts, pre-comm., pre-sci. or pre-

sci. (agric.), BE (civil, elect., mech.), 3 yrs. after pre-profess. or BSc pt. I (engin. & technol.), BPharm, 3 yrs. after pre-profess. or BSc pt. I (med. and pharm.), BVSc, BTech (oil technol., chem. engin.), BAMS, 4 yrs. after appropriate pre-profess. or BSc pt. I, BSc(HomeScience), 4 yrs. after S.S.C.; MB BS, 4½ yrs. after pre-profess. or BSc pt. I (med.); BArch, 5 yrs. after S.S.C.

**HONOR. DEGREES** BT, 1 yr. postgrad., MTech, 1 yr. after BTech, MA, MCom, MSc, MSc(Agr.), 2 yrs.' study after corresp. bachelor's degree, LLB, 2 yrs. after approved bachelor's degree, LL.M., 2-yr. course for approved law grads., MSc(Med.), 2 yrs.' study and res. after MB BS, MD, MS & MO, 2 yrs.' study and 6 months' work after MB BS; MEd (by exam. and thesis), open to BTs (and certain others recommended by the academic council). PhD (by thesis) in agric., arts, comw., med. or sci., 2 yrs. after MSc(Agr.), MA, MCom, MSc(Med.) or MSc respectively, PhD (by thesis) in educn., open to holders of MEd, MA, MSc or (by sp. permission) BT; LLD (by thesis), 3 yrs. after approved LL.M., DLitt (for original contribution to learning), 3 yrs. after PhD or 8 yrs. after MA, DSc (for res. conducive to advancement of sci.), 3 yrs. after MSc. All higher degrees open to approved grads. of other univs.

**HONORARY DEGREES** DLitt, LLD

**DIPLOMAS.** Postgrad., library sci., journalism, 1 yr.; anaesthesiol., gynaecol. & obstet., ophthalmol., 1 yr. after MB BS. Other: local self-govt., teaching, 1 yr.; art, 3 yrs.; archit., 4 yrs. from S.S.C. exam.

**EXAMINATIONS IN ORIENTAL LEARNING.** The univ. holds jr., ss. and higher dipl. exams. in Arabic, Pal., Persian, Prakrit and Sanskrit. facs. which courses are provided in certain private instns. recog. for the purpose. In Sanskrit, Pal. and Prakrit, the following titles are awarded: Prajna (jr. exam.), Vidyaratna (sr. exam.) and Shastri (higher exam.), in Arabic: Maulvi (jr. exam.), Maulvi Alam (sr. exam.) and Maulvi Fazal (higher exam.), in Persian: Munshi (jr. exam.), Munshi Alam (sr. exam.) and Munshi Fazal (higher exam.). Duration of course; jr. exams.—none specified; sr. exams.—2 yrs. from corresp. jr. exam.; higher exams.—2 yrs. from corresp. sr. exam.

**STUDY LEAVE.** There are no univ. regns. governing the granting of study leave.

**FEES** Exam fees. Pre-arts, pre-comm, Rs 30, pre-sci, pre-sci (agric), Rs 35, inter home sci., Rs 45, BA pts I, II, III, Rs 40 each, BCom, pt I, Rs 35, pt II, Rs 30, BT, Rs 40, BVSc (1st, 2nd, 3rd, 4th), Rs 40 each, BSc pt I, Rs 36 plus Rs 3 per pract., pts II, III, each Rs 24 plus Rs 3 per pract., BSc(Agr), pt. I, Rs 25, pts II, III, Rs 35 each, BSc(HomeScience), Rs 60, LLB previous, Rs 35, final, Rs 40; 1st BE, Rs 45, and BE, Rs 50, final BE, Rs 60, 1st BPharm, Rs 40, final BPharm, Rs 40; 1st BTech, Rs 30, final BTech pt. I & pt II, Rs 40 each, 1st MB BS, Rs 40; and MB BS, Rs 60, final MB BS, Rs 60, 1st & 2nd BAMS, Rs 40, MA & MSc (maths.) pt. I, Rs 35, pt II, Rs 35; MA & MSc (subj other than maths.), pt I, Rs 35, pt II, Rs 40, MCom pt I, Rs 30, pt II, Rs 30; MSc(Agr) pts. I & II, Rs 35; MSc (Tech), MEd, MD, MS, MO, MSc(Med), Rs 100; Ph.D, Rs 175; LLM, LL.D, DLitt, DSc, Rs 200. Diplomas art, 1st, Rs 30, final, Rs 35, journalism, Rs 40, library sci, Rs 45, local self-govt, Rs 40, ophthalmol., Rs 75, teaching, Rs 25, anaesthesiol, Rs 75, archit, 1st, Rs 35, final, Rs 45

**ACADEMIC YEAR.** June to March - 2 terms of 17 wks each.

**LANGUAGE OF INSTRUCTION.** Govt educt (facs of arts & sci) : Engl; Hindi and Marathi media for pre-arts, pre-sci and BA classes, Engl alone for postgrad classes. *Profess educt* : Hindi and Marathi media for pre-comm, BCom, DptT and BT, Engl for remaining courses

**STUDENT RESIDENCES.** The Univ maintains 2 hostels for boys and 1 for girls accomm 250 and 30 students respectively

**STUDENTS' INFORMATION BUREAU.** Univ Budk-ing (tel 2382) Advises and helps students who go abroad for advanced studies.

**PUBLICATIONS.** *Calendar*, 2 vols. (every 3 yrs., Rs 2 per vol.), *Annual Report* (free); *Minutes of Univ. Meetings* (annual, free); *Perspectus* (annual, from 50 nPs to 75 nPs according to events), *Exam. Papers* (annual, from 50 nPs to Rs 2 according to exams), *Estimate Lectures* (every 2 yrs, price as fixed)

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	24,468	—
Women	4,054	—
Total	28,522	—

**Distribution by Faculties.** Agric., 1601, *arts*, 11,658, *comm*, 6313; *educn.*, 932, *engn & technol*, 609, *law*, 606; *med*, 1047, *sci*, 5756  
Total 28,522

*Included in the figure above are :—*

Intermediate or Pre-University students, 10,246  
Postgraduate students, 1531.  
New admissions, 11,409.

Students from other countries, 34 (Countries from which largest numbers came Nepal, 17, Africa, 12)

**DEGREES AWARDED (1960-61)** *Agnc* BSc (Agr), 76, MSc(Agr), 34, Ph.D, 1 *Arts* BA, 826, MA, 243, Ph.D, 7 *Comm* BCom, 220, MCom, 25, Ph.D, 1 *Educn* BT(Gen), 116, BT(Basic), 11, MEd, 7 *Law* LLB, 72; LLM, 1 *Med* : MB BS, 52, BPharm, 7, MSc(Med), 1, MD, 2, MO, 3; MS, 1 *Sa:* BSc, 198, MSc, 44, BSc(HomeScience), 2; Ph.D, 4, BTech, 27; BE, 17.

**DIPLOMAS AWARDED (1960-61)** *Anaesthesiol.*, 2, *archit*, 4; *art*, 5; *engn*, 45, *journalism*, 10, *library sci*, 19, *local self-govt*, 21, *oriental learning* : Jr, 26, Sr, 3, *higher*, 2, *teaching*, 444

# OSMANIA UNIVERSITY\*

Founded 1918

Postal Address: Hyderabad, Andhra Pradesh, South India

Cables and Telegrams: University, Hyderabad, Deccan, 7

Telephone: 72402

CHANCELLOR—THE GOVERNOR OF ANDHRA PRADESH (*ex officio*)

PRO-CHANCELLOR—PRINCE MUKARRAM JAH BAHADUR, BA Oxn., MA Camb

VICE-CHANCELLOR—D SADASIWA REDDI, MA Oxon, Hon DList And

REGISTRAR—B. P. R. VIJHAI

## TEACHING STAFF

[1—Part-Time]

### UNIVERSITY COLLEGE OF AGRICULTURE

Postal Address: Rajendranagar, Hyderabad

Telephone: 5569

Principal—H. A. RAU, BAg Peow, PhD Wales

#### Agricultural Botany

Rao, H. A., BAg Peow, PhD Wales	Prof, Hd
Ramada Rao, B. V., MSc Bot	Lectr.
Khan, M. A. A., MSc(Agr) Kow	Lectr
Khan, S. T. A., MS Oklahoma, BSc(Agr)	Lectr
Sharma, A., MSc(Agr)	Lectr

#### Agricultural Chemistry

Rao, T. M. V., BSc Bot, PhD Wn.	Reader, Hd
Murthy, S. B., BA BSc And., MSc(Agr) Alld.	Lectr
Yadgir, N., MSc(Agr)	Lectr

#### Agricultural Economics

Suryanarayana, K. S., BScAg Madr., MA Nag., PhD	Reader, Hd.
Swamy, M. S. K., MA	Lectr
Sathy, P. B., MA	Lectr

#### Agricultural Engineering

Satyannarayana Rao, T., BScAg Bot., BA Ag	Lectr.
Buewar, B. R., BSc(Agr) Nag., BSc(AgrEng) Alld.	Lectr.

#### Agricultural Extension

Venugopal, K., MS Corn., BSc(Agr)	Prof., Hd of Dept
-----------------------------------	-------------------

#### Agronomy and Horticulture

Suryanarayana Rao, R., BScAg Madr., MS Kansas	Reader, Hd
Bhaskaran, K., BScAg Madr., MS Kansas	Lectr.
Yasun, M., MS Kansas, BSc(Agr)	Lectr.
Ahmed, K., BSc(Agr)	Lectr.
Ahmedulla, M., BScAg DH Madr.	Lectr.
Rao, Y. Y., MSc(Agr) And.	Lectr

#### Animal Husbandry and Dairying

Karnam, B. T., MSc Bot, PhD Corn.	Reader, Hd.
Ahmed, T.	Lectr.
Namami, Z. A., BSc(Agr)	Lectr.

#### Farm

Khan, S. B., BSc Brst.	Farm Supt.
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#### Home Science

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Reader  
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MVSc *Agra*

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Lectr.  
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**SECUNDERABAD, Evening College.** Pre-Univ Principal—M Prasad Rao, MA Madr. 14 other Teachers

**SECUNDERABAD, Secunderabad College of Arts & Science** Pre-Univ (arts, sci), Pre-Vet, BA, BSc, BCom. Principal—Major S. M. Ahmaduddin, MSc Mame., FGS. 43 other Teachers.

**WARANGAL, Arts & Science College.** Pre-Univ., BA, BSc Principal—S. Sarajuddin, MA Lectrs: 1007—B. S. Reddy, MSc, B. N. Chary, MSc, V. R. Bidolikar, CHES—S. Y. S. Shashibuddin, MSc, S. Yousufuddin, MSc, R. Kurdiar, MSc PhD, M. H. Baig, MSc, C. Venkateshwarulu, MSc COMM—B. V. Sudarshan, MA MCom ECON—T. Reddy, MSc, K. S. Upadhyaya, MA ENGL.—M. Anwar, MA And., M. R. Sathyanarayana, MA, I. Soqueria, MA, T. G. Vidyasathan, MA, H. R. Prasad, MA HINDI—B. B. Tiwari, MA, B. B. Joyaula, MA HIGR.—S. Sarajuddin, MA, M. M. Ahmed, MA MATHS.—M. L. N. Rao, MA, M. M. Subrahmanyan, MA, K. Rao, MSc. PHYSICS.—S. A. Khan, MA, K. L. Reddy, MA. PSYS.—A. S. Murthy, MSc, S. Raghavan, MSc, S. G. Satyanarayana, MSc, M. A. H. Shaif, MSc. POT.—A. N. Rao, MA SANSK.—P. Sarinamchandradu, MA Bay SOC STUDIS—R. M. Roy, MA TELUGU—Krishna Murthy, MA, G. V. Subrahmanyan, V. R. Murthy, MA, K. V. R. Sastri, BA And., PhD. URDU—A. S. Khan, MA, A. S. F. M. Qudiri, MA. 2001.—S. Zabeeruddin, MSc, S. Khan, MSc, T. Vasudev, MSc

## AFFILIATED COLLEGES

**ADILABAD, Govt Science College, Andhra Pradesh.** Pre-Univ., BSc Principal—M. S. Sastri, MSc Lectrs: 1007—V. V. R. K. Sarma, MSc, ENGL.—M. Nara Rao, MA BEd; HINDI—B. Agarwal, MA, MATHS.—D. V. Rajasekhara, MA, PSYS.—G. S. Chary, MSc, soc. STUDIS—K. R. Janta, MA, TELUGU—J. R. Ramakrishna, MA, TOOL.—K. Bhaktawatsalmo, MSc

**HYDRABAD, Anwarul Uloom College** Pre-Univ., BA, BCom. Principal—S. A. Akbar, MA Camb. 10 other Teachers.

**HYDRABAD, Badraka College of Commerce,** Gaudal Palace, Nampalli Station Road. Pre-Univ., BA, BCom Principal—K. N. Acharya, MA Mys Lectrs. LOCON—K. G. Srinivasan, MA And., N. Krishnaswami, MA And., Mrs. Laxmi Ramamanyu, MA S. Venkat. & Ows, P. T. George, MA Mys., G. S. Sastri, MA, S. R. Singh, MA And. co-act.—G. Lakshminarayana, MCom Bay, R. Rangachary, MCom, G. Ramaswathan, MCom

MCom, S. V. R. K. Sharma, MCom LL.B., P. S. Vengalumar, MCom, G. Venkateswarulu, G. K. Chary, MCom And., M. A. Soundarajan, MCom, C. M. Pantulu, MCom And., P. Satyanarayana, MCom Nag., N. T. Veasachalini, MCom, P. S. Tamisapani, MCom Kona. TNGZ.—B. F. Showrayya, Mrs. Abida Bashier, MA, K. N. S. Murthy, MA, Mrs. I. Pakyanandham, MA. CIVICS—... GENERAL SCI.—C. K. Menon, MSc, HINDI—Ramvilas Modani, MA MATHS.—T. J. Pannethpur, MSc Mys. TELUGU—M. L. Narasimha Rao, MA. URDU—S. Y. Shentuddin, MA.

**HYDRABAD, College of Nursing, Andhra Pradesh.** BSc(Nursing) Principal—... Sp Officer—Miss Tahera H. Ali Khan, MSc(Nursing) Boston 5 other Teachers

**HYDRABAD, Gandhi Medical College, Bashirbagh.** MB BS. Principal—M. Y. Ansari, MB BS PhD Edu. Profs. Miss Y. Jaya, MB BS PhD, Shanlar Rao, PhD Lond., MB BS, G. C. S. Naidu, MB BS BSc, N. R. V. Swamy,

MB BS, MRCP, G. Subba Rao, FRCS Reader—T. Ali, MB BS. Lectures—A. M. Moharaj, MB BS, D. Suneeta, MB BS, G. Yadaguri, MB BS, S. A. Hussain, MB BS, Bhaskar Rao, MB BS, D. Ganes, MB BS, K. Khurshid Begum, MB BS.

**HYDERABAD, Govt College of Home Science, Andhra Pradesh.** BSc (home sci.) Principal-in-Charge—Mrs Premila Sarethy, BA MS Cms

**HYDERABAD, Govt. College of Physical Education, Andhra Pradesh.** Dipl in phys educn Principal—Mir Asad Ali, BA DPE 7 other Teachers

**HYDERABAD, Govt Training College, Andhra Pradesh.** BEd. Principal—M. T. M. Yousuf, MA DipEd. 19 other Teachers

**HYDERABAD, Hindu Maha Vidyalaya, Andhra Pradesh.** Pre-Univ Principal—Krishna Dutt, MA BEd 7 other Teachers

**HYDERABAD, Jamia College Pre-Univ, BSc Principal and BOTANY—Falahuddin, MSc Lectures—CHEM—A. A. Rahim Khan, MSc Lectr.—Miss M. Jaya Bai, MA Mady GEOL.—M. Mohiuddin, MSc MATHS—A. K. Deshmukh, MSc PHYS.—S. N. Rao, MSc soc STUDIES—M. A. Rasheed, MA ZOOL.—A. A. Aziz, MSc**

**HYDERABAD, Nawab Bahadur College, Charanmahal Pre-Univ., BSc. Principal—C. V. Ramesh Babu Rao, MA And 46 other Teachers**

**HYDERABAD, New Science College, Narayan-guda Pre-Univ, BSc. Principal and CHEM—C. Sudeshina, MSc Lectures CHEM—Y. S. N. Murthy, MSc And, P. R. Murthy, MSc, A. V. Subbarao, MSc Bsn, B. Sethuram, MSc, A. Subbarao, MSc, G. V. Rattiah, MSc, V. S. Bhasker Rao, MSc, PHYS.—H. Lakshminath, MSc, S. Parthasarathy, MSc, B. S. R. K. Sharma, MSc, K. G. K. Sastri, S. Kamala, MSc, S. Venkateswara, MSc Mady.; BOT AND ZOOL.—M. Raghuram Rao, MSc, Mrs. T. Chacko, MSc, Miss K. V. Lakshminath, MSc, Miss K. Alameida, MSc, Kalspathy, MSc, M. Bhaskar Rao, MSc, M. Rasheeduddin, MSc, ENGL.—Miss V. Syam-lamba, MA, V. V. Chary, MA, K. S. Sastry, BA And, Y. R. Jyengar, MA, soc. STUDIES—K. Subramanyam, MA LLB, N. D. Nandekar, MA Nag; MATHS—M. Shafiqullah, MA, P. B. B. Rao, MSc, URDU—M. A. Ahmad, MA; HINDI—Miss Santosh Varma, MA, TELUGU—A. Viswanathan, MA, CANC.—Surya Prakash Rao, MSc And, C. N. Maggiri, MSc, J. V. Praneesh Rao, MSc.**

**HYDERABAD, Osmania Medical College, Afzal Gunj (tel. 5196).** MB BS, MD, MS, MSc; dipls Principal—L. Chalapathy Naidu, MB BS And, MS Mady. MED.—Prof.: B. K. Nauk, MB BS Bsn, MRCP, S. Ramchander Rao, MB BS, MRCP, A. H. Siddiqui, MB BS, MRCPed, S. V. Rao, MD BS Mady; Asst. Profs. U. B. Rao, MD BS And, R. N. Sharma, MD BS And, B. Ramagopalacharyulu, MD BS And, Lectr.: S. N. Mathur, MB BS Bsn, MRCPed sncg.—Prof.: I. C. Naidu, MB BS And, MS Mady, M. Bahadur Khan, MB BS,

Hon Prof. N. B. Reddy, MB BS And, FRCSed; Asst. Prof.: R. G. V. Ranga Rao, MB BS And, Lectr.: G. P. Ramayya, MB BS, FRCS, S. S. Hussain, MB BS And. PHARMACOL.—Prof. P. Saadna, MD BS Bsn, Lectr. S. Narayana, BSc MB BS Mady. ANAT.—Prof.: G. Hanumanth Rao, MB BS, Lectr.: K. Rama Rao, MB BS, D. Suneeta, MB BS PhD Mady. ANAT. AND CYTOLOG.—Prof.: Mrs. P. M. Naidu, MB MD DGO Mady, FRCSed, B. S. Sathya, MB BS, FRCS, Additional Profs. Miss Kanakadugamini, MB BS And, MD Mady, FRCS, C. Rajeswari, MD BS And, Asst. Prof. Miss T. S. Krishna, MD BS, Miss Zafra Mehdi, MD BS, Lectr.: Mrs. J. Kirloskar, MB BS Bsn, FRCS, Miss N. Lokshmi, MD BS And, Miss Umesh Reddy, MD BS, T. Seetha, MD BS. PATHOL.—Prof. V. Gopal Rao, PhD Lond, MB BS, Lectr.: N. M. Sathya, MB BS DCP, P. D. Naidu, MB BS. PHYSIOL.—Prof. C. Sureshaya, PhD Lond, MB BS And; Reader: M. M. A. Zaidi, MB BS, Taher Ali, MB BS; Lectr.: M. H. A. Beg, MB BS, P. Sundhara, MB BS MSc And. BIOCHEM.—Prof. K. Ranganatha Rao, MB BS MSc PhD, OPHTHALMOL.—Prof. P. Ramchander, MB BS, MRCP; Lectr.: M. R. Reddy, MB BS And, Venkateswara Reddy, MB BS And, N. Swarup, MB BS Bsn, FRCS. FORENSIC MED.—Prof. I. Bhoshaswara, MB BS And, MD Mady. AND PHYS. MED.—Prof. C. L. Ahluwalia, MB BS, G. C. S. Naidu, MB BS And, BSSE Calc., Asst. Prof.: P. Hirshikesh, MB BS And, DPH Calc. DENT SURG.—Prof. M. G. Rao, Additional Prof. Tigmaj Hussain, MB BS Lond. HIST. OF MED.—Prof. D. V. Subba Reddy, MB BS MSc. ORTHOP.—Prof. M. Ranga Reddy, MB BS, FRCS, Asst. Prof. Dhanraj Rao, MB BS, FRCS. EAR, NOSE, THROAT—Prof. A. B. N. Rao, MB BS, FRCS; Asst. Prof. V. K. Murthy, MB BS And. ANAESTHESIA—Prof. M. V. Rao, MB BS DA, MRCP. RADIOLOG.—Prof. H. Syed Ali, BA MB BS. PEDIATRICS—Prof.: H. Chander, MB BS DCH, MRCP. BACTERIOL.—Prof. P. V. Ramra Rao, BSc, MB BS And, DPH Calc., MD Mady. PSYCHIATRY—Prof. R. Nataraj, MB BS Mady, MRCPed THORACIC SURG.—Prof. G. R. Bajl, MB BS Bsn, FRCSed. INFECTIOUS DISE.—Prof. M. M. Beg, MB BS, MRCPed.

**HYDERABAD, RBVFR Women's College, Narayan-guda Pre-Univ, BA, BSc Principal—Miss G. P. Indira, MSc 30 other Teachers.**

**HYDERABAD, Feroz Fardousi College of Arts & Commerce, Gowdiga Pre-Univ, BA, BSc, BCom Principal—S. D. Saravaliakar, PhD Lectr.: COMM.—C. G. Kandamuri, MA MCom MCom, K. K. V. Raghava, MCom, N. V. R. Appa Rao, MCom, ENGL.—P. S. Rao, MA LLB Bsn, R. Ramachandra Rao, MA Nag, P. G. K. Rao, MA BEd LLB Eng, M. M. Rao, BA And, Miss Mayine Beratan, MA Civil, K. G. Murthy, MA Bsn, H. S. Shivaji, MA, P. S. B. Naidu, MA, P. S. B. Naidu, MA; POL.—S. B. Naidu, MA, B. S. Rao, MA, Miss K. Nagratna, MA, ECON—**

N P Joglekar, MA Bow, N. Sampathkumar, D. K. Rotkar, MA Nag, TELUGU—V B Sastry, MA; MARATHI—D P Joshi; PUB. ADMIN.—K V Sureshwar, MA DPA, PHYS.—K Subramanyam, MSc, P. Lavanaswamy, MSc, K S Rao, CHEM.—G S S Murthy, MSc, A D Shendrikar, MSc, R. Raj, MSc, V. G. Gogoi, MSc Kavya; BOT.—S. S. Kulkarni, MSc, M. U. Damayanti, MSc; ZOOL.—R. R. Patwari, MSc, G. Nanyana, MSc; MATHE.—N. Krishnamurti, MSc Agri, HINDI—K. V. Dube, MA, KANNADA—K K Rao, MA, URDU—M A R Khan, MA

KARIMNAGUR, *Arts & Science College*, Andhra Pradesh. Pre-Univ., BA, BSc, BCom. Principal—I V Chalapathi Rao, MA Nag. Lectrs.—CHEM.—V G R Murthy, MSc, COMM. AND ECON.—V. Kundalano, MCom, D R K. Patnaik, INGL.—D Ramakrishna Rao, MA LLB Nag; MATHE.—S M M Sarma, MA; PHYS.—P. S. Ramachandra Rao, MSc And., TELUGU AND SANSK.—D S Murthy, MA; URDU AND HINDI—M A. Gaffar, MA; ZOOL AND BOT.—M Dharmanab, MSc, R. G. Rao, MSc.

KHAMMAMETH, *Arts & Science College*, Andhra Pradesh. Pre-Univ., BA, BSc, BCom. Principal and COMM.—K V V. Subbaraju, BCom. Lectrs.—BIO.—D V Subba Rao, MSc, P. R. Rao, MSc, ENGL.—K. Y. L. Narasimha Rao, MA And.; MATHE.—K K. Ramesh Rao, MA, CHEM.—G. S. Sastry, MSc, COMM. AND ECON.—V Jagannadha Rao, MCom, G J. Mohan Rao, BA Madh.; HIST. AND CIVICS—K. R. Mohan Rao, BSc And.; MA DipInChimes Bow; TELUGU—Y. Andharavanna, MA Ban.; POL.—Y V Reddy, MA Ban & Madh., LLB Ban, PHYS.—M S R Acharya, MSc Sang

MAHESHWARNAGAR, *Arts & Science College*, Gadwal Pre-Univ. Principal—I. Suryanarayana, MSc Sang. 9 other Teachers

NALGONDA, *Govt College of Arts & Science*, Andhra Pradesh. Pre-Univ., BA, BSc, BCom. Principal—P C Asthana, MSc Luck. Lectrs.—CHEM.—G Satyanarayana, BSc And., MSc Nag.; BGL.—B M Reddy, MSc, B Narasimha Rao, MSc, PHYS.—D Natesan, MSc Anusaw., INGL.—N. Sambasiva Rao, MA Ban., BEd And.; ECON AND SOC STUDIES—T. Purnachandra Rao, BA And., MA, URDU—M. M A Khan, MA; MATHE.—N. C. S. Acharyulu, MA; POL.—Miss Kasturi Bai, MA Madh., TELUGU—P. Venkat Ramiah, MA Madh., ENGL.—D. Venkat Rao,

MSc, PUB ADMIN.—A. G. S. Vidyasagar, MA Nag.; COMM.—T. R. Gopal Krishna, MCom LLB BEd Sang.

NEZAMABAD, *Gurraj Govt Arts College*, Andhra Pradesh. Pre-Univ., BA, BSc, BCom. Principal and HIST.—R. Suryanarayana Murty, MA BEd Madh. Lectrs.—BGL.—S. Lakshmin Rao, MSc, K V S Ramakoti, MSc And., K R K. Murthy, MSc; ECON. AND COMM.—K G. Reddy, MCom, A. J. Joseph, MA, MATHE.—R. Pulla Rao, MSc, TELUGU—P. V. Somayajulu, BA And.; PHYS.—K. Seetharamaswami, MSc Ban., CHEM.—K V. Narasimhaacharyulu, MSc Ban.; HIST.—Miss A. Hymavati, MA, INGL.—P V. Sastry, MA, POL. SCI.—K R. Santanam, MA

SECUNDERABAD, *St Francis' College for Women* Pre-Univ., BA. Principal—Mrs Indu Druit. 16 other Teachers

SIDDHIMET, *Arts & Science College*, Andhra Pradesh. Pre-Univ., BA, BSc. Principal and BOON.—N. Krishnamurthy, MA And. Lectrs.: BOON.—K. Purushotham, BA Madh., C. Satyanarayana, MA, INGL.—D S. Prakash Rao, MA Ban., HIST.—K. Subramanyam, MSc, S. K. Bakshi, MA, MATHE.—V. Ramchandra Rao, MA MSc And., T. L. Narasimha Rao, MA BL Nag, PHYS. AND CHEM.—S. Viswanatham, MSc, N. P. Deydas, MSc Agri; TELUGU—P. Gopalakrishnamurthy, BA And., ZOOL AND BOT.—D. Viswanatham, P. Suryanarayana, MSc And., A. Razak, MSc, K. Lokendra Rao, MSc; POL.—G. Venkatesh, MA, M. Satyanarayana, MA, URDU—M. Rahmatulla, MA

WARANGAL, *Fatima College for Women*, Kuzipet. Pre-Univ., BA. Principal—M. J. Houghton, MA LT Calc. 8 other Teachers.

WARANGAL, *Govt. Training College*, Andhra Pradesh. BEd. Principal—Mrs. Sharada B. Venkateswamy, MSc DipEd. Lectrs.—N. Venkateshwara Rao, MA BEd, M. Sambasiva Mohan, MA BEd, Miss Shephali Siddiqui, MSc BEd, P. Venkat Rao, MA BL BEd, S. A. Basim, MA BEd, M. Qasim Khan, MA And., BEd, A. Q. Qureshi, MA BEd, Vishwanatham, MA BEd, K. Dwarka Prasad, MA BEd And., Chander Deo Sharma

WARANGAL, *Regional Engineering College*. BE. Principal—P. Govindakrishnaiah, DIC, BE Madh. 38 other Teachers.

WARANGAL, *Regional Medical College*. Pre-Med. Principal—T. Lakshminarayana, MB BS BScs And., DPH Lond. 51 other Teachers

## GENERAL INFORMATION

The Univ. was established in 1918, and its charter was revised in 1947 and 1950. The Univ. act was implemented in Feb. 1959. It is a teaching and affiliating Univ.

The jurisdiction of the Univ. extends over Adilabad, Hyderabad, Karimnagar, Khammam,

Mahabubnagar, Medak, Nalgonda, Nizamabad, and Warangal in the state of Andhra Pradesh.

CORPORATION. The Univ. is completely autonomous though it is wholly financed by the Govt. The Univ. syndicate, consisting of 14 members, is

the governing body. The vice-chancellor is the chief admin. officer. The other bodies of the univ are the finance ctee, academic council, senate, library ctee, ctee of exams, fees and bds. of studies.

INCOME (1961-62) Indian govt Rs 10,307,585

FACULTIES AND DEANS *Agric*, Prof H A Razvi (*agrie bot*); *arts*, Prof M A. Qadi (*econ*), *comm*, Prof V V. Ramaswami, *educe*, Principal Mrs Syeda Zohra Begum, *engin*, Principal A. Ali; *law*, Principal G. C. V. Subba Rao, *med*, Principal I. Chalapati Naidu, *sci*, Principal N. V. Subba Rao, *technol*, Prof B. S. Kulkarni (*chem technol*), *vet. sci*, Dr M. Ahmed Hussain

LIBRARY 102,388 vols (English, 40,001; Urdu, Persian, Arabic, 18,009; oriental, 21,769; *gifs*, 21,610). There are 7590 MSS incl. 1239 palm leaf MSS

ADMISSION The qualif necessary for entrance to the BA course is the higher sec. cert. (XII standard) or pre-univ exam cert. or equivalent cert.

FIRST DEGREE 2 yrs (after dipl. in oriental learning)—BOL, 3 yrs—BA, BSc, BCom, BSc(Agr), 1 yrs—BVSc&AH; 5 yrs—MB BS, BE, BTech

HIGHER DEGREE 1 yr—BED, MED (after BED), 2 yrs—LLB, MA, MSc, MSc(Agr), MTech, MCom, LL.M (after LLB), MD, MS, ME, PhD

HONORARY DEGREE DLit, DSc, LL.D

DIPLOMAS 1 yr (postgrad)—library sci, journalism, phys. educn, DO, DGO, DCH, DCP, DLO, DFM, DA, DPH, DMR; 2 yrs—French, German, Italian, Russian, oriental learning, pub admin.

STUDY LEAVE has been suspended. Teachers are deputed and their absence is treated as leave to their title.

FEE Registration, Rs 2, admission, up to grad. course, Rs 5, postgrad and profess courses, Rs 10, pre-univ, Rs 35 per term, pre-agric and pre-vet, BA, BSc and BCom, Rs 40 per term, MA, MSc, MCom, Rs 50 per term, dipl. in foreign lang., Rs 25 per term; dipl. in journalism, pub. admin., BED, MED, Rs 45 per term; dipl. in lib. sci, Rs 30 per term, BTech and LL.M, Rs 75 per term; BE and MTech, Rs 90 per term, MSc(Agr), Rs 70 per term, BSc(Agr), BVSc and LLB, Rs 60 per term

ACADEMIC YEAR. 3 terms June–Sept., Oct.–Dec., Jan.–March. For courses of engin and technol, 2 terms June–Oct., Dec.–March.

LANGUAGE OF INSTRUCTION In all degree and pre-univ colle Engl is main medium of instrcn, but in a few colls parallel classes are conducted in Hindustani, 1 coll. has Urdu as medium of pre-univ. instrcn. In all profess courses Engl is only medium of instrcn.

RESIDENCE Only hostels provide accomm for about 1000 students. Cost of living is about Rs. 35 p.m.

STAFF RESIDENCES Vice-chancellor's lodge, quarters for resident med officer, warden of hostels, teaching and admin staff.

NATIONAL CADET CORPS. There are 12 N C C units under the univ, with 10,122 cadets (9637 boys, 515 girls) and 80 officers (72 men, 8 women)

STUDENT HEALTH SERVICE. Resident med. officer with well-equipped clinic on the campus. Visiting physician once a week. Resident students are examined before admission to hostels

PUBLICATIONS. *Annual Administration Report* (free); *Syllabus* (Rs 1 each); *University Act*, *Admission Rules*, *Concise English-Hindi Dictionary*, text-books for pre-univ course; *University Handbook* (Rs. 1)

UNIVERSITY PRESS. For manager see 'Admin. and Other Staff', above

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	17,958	—
Women	3,726	—
Total	21,684	—

Distribution by Faculties *Agric*, 284; *arts*, 5590; *comm*, 1778; *educn*, 422; *engin*, 1785; *law*, 1430; *med*, 1252; *sci*, 8596; *technol*, 102; *vet. sci*, 254. Total 21,684

Included in the figures above are—

Pre-University students, 4797

Postgraduate students, 1278

New admissions, 11,527

Students from other countries, 25 (Countries from which largest numbers came: Nepal, 8, Fed of Malaya, 7)

DEGREES AWARDED (1960-61). *Agric*, BSc (Agric), 73; MSc(Agric), 24. *Arts* BA, 1168; MA, 215; PhD, 7; BOL, 31. *Comm*, BCom, 339; MCom, 11. *Educn*: BED, 294; MED, 14. *Engin*: BE, 189. *Law* LLB, 17; LL.M, 17. *Med*: MB BS, 152; MD, 6; MS, 2. *Sci*: BSc, 693; MSc, 74; PhD, 6. *Technol* BTech, 22; MTech, 2. *Vet sci*: BVSc&AH, 51

DIPLOMAS AWARDED (1960-61) Pub admin., 17; journalism, 5; library sci, 9; phys. educn, 5; DCH, 4; DCP, 2; DA, 1; DGO, 5.



# PANJAB UNIVERSITY\*

## CHANDIGARH

Founded 1947

Postal Address : Chandigarh, Punjab, India  
Cables and Telegrams : University, Chandigarh, India  
Telephone (Registration) : 324

CHANCELLOR—H.E. THE GOVERNOR OF THE PUNJAB (*ex officio*)

VICE-CHANCELLOR—A. C. JOSHI, DSc, FNI

REGISTRAR—K. S. NARANG, MA

LIBRARIAN—J. S. SHARMA, PhD *Math*, MA

### TEACHING STAFF

[†=Part-Time]

<b>Ancient History and Culture</b>		Raju, K. S. N., MSc(Tech)	Lectr.
Prakash, B., MA DLitt LLB PhD	Reader, Hd of Dept	Sengh, Kulwant, MSc	Lectr.
		Sharma, G. M., MSc PhD	Temp. Lectr.
<b>Anthropology</b>		Gupta, M. K., BE	Lectr.
Chopra, S. R. K., MSc PhD	Reader, Hd of Dept	Mukherjee, S., BE	Instr.
		Bhatia, Y. S., BScEngg	Instr.
Sharma, J. C., MSc	Lectr.	Behl, K. C., BScEngg	Instr.
		Mahajan, O. P., MSc	Instr.
		Bansal, P. C., MSc	Instr.
<b>Astronomy</b>		Ghambur, S. P., BChE	Temp. Instr.
Syst, R. D., MA	Lectr.	<b>Chemistry</b>	
<b>Botany</b>		Paul, R. C., MSc PhD	Prof, Hd of Dept.
Mehra, P. N., DSc, FNI	Prof, Hd. of Dept	Puri, B. R., MSc PhD	Reader
		Narang, K. S., MSc PhD	Reader
Chopra, R. S., MSc	Reader	Rastogi, R. P., MSc PhD	Reader
Thind, K. S., MSc PhD	Reader	Singh, B., DSc	Reader
Khoshoor, T. N., MSc PhD	(on leave) Lectr.	Lal, K., MSc PhD	Lectr.
Loyal, D. S.	Lectr.	Lakhan-Pal, M. L., MSc PhD	Lectr.
Pathania, R. S., MSc	Lectr.	Vig, O. P., MSc PhD	Lectr.
Verma, S. C., MSc	Lectr.	Keskar, S. V., MSc PhD	Lectr.
Grover, R. K., MSc PhD	Lectr.	Singh, S., MSc PhD	Lectr.
<b>Chemical Engineering and Technology</b>		Singh, D. D., MSc PhD	Lectr.
Ghosh, B., MS DSc <i>Carnegie Tech</i> , MSc	Prof, Hd. of Dept	Bans, M. S., MSc PhD	Lectr.
		Malhotra, K. C., MSc	Temp. Lectr.
Gupta, I. S., MSc PhD	Reader	Narula, S. P., MSc	Temp. Lectr.
Sharma, N. D., BEMech MSc(Engg)	Reader	Shrotenathan, B. R., MSc	Temp. Lectr.
Sharma, L. R., MSc PhD	Reader	<b>Commerce</b>	
Vir, D., MSc PhD	Reader	Datta, K., MA Camb, BCorn Lond,	
Loh, P. S., MS MSc PhD	Lectr.	(on leave) Principal, Univ. Commerce Coll.	
Bhatia, S. I., DSc	Temp. Lectr.	Kapoor, T. N., LLB MCom PhD	
Baggs, R. L., MSc	Lectr.	Dogra, R. M., MA	
Chandra, V., MA	Lectr.	Mehrotra, B. N., MA LLB	
Singh, G., MSc PhD	(on leave) Lectr.	Bansal, B. L., MCom LLB	
Bhatnagar, J. N., MAS ME	Lectr.	Mehrotra, K. N., MCom LLB	

\* Member of the Association of Universities of the British Commonwealth

**Economics**

Rangnagar, S. B., MA PhD Boms	Hd. of Dept.
Mamohan, S., MA	(on leave) Reader
Mathur, G., MA PhD	(on leave) Reader
Handa, D. R., MA	(State) Lectr
Gupta, D. A. K., MA	Lectr
Sethi, A. S., MS MCom LLB	Temp. Lectr
Luthra, R. K., MA	Temp Lectr

**English**

Kumar, R., MA PhD	Prof., Hd of Dept
Kumar, I., MA Camo & Pany	Reader
Kaul, R. K., MA PhD	Lectr
Chander, J., MA	(on leave) Lectr
Raina, M. L., MA	(on leave) Lectr
Sethi, R. N., MA	Lectr
George, A. G., MA PhD	Lectr
Malik, Mrs Anand, MA	Temp Lectr
Tiwari, M. R., MA PhD	Tutor
Anand, S. P., MA	Tutor

**Fine Art and Literature**

Anand, M. R., PhD VB, BA	Prof
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**French**

Boochand, Mrs. A	Lectr
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**Geography**

Goss, G. S., MS PhD IFB., MA	Reader, Hd. of Dept
Sen, J. C., MA	Lectr.
Lal, A., PhD Indiana, MA	Lectr

**Geology**

Sahni, M. R., MA Camo., PhD DSc Lond	Prof., Hd. of Dept.
Bhatia, S. B., MSc PhD	Reader
Jan, S. P., MSc	Lectr.
Savarna, M. N., MSc PhD	Lectr.
Sahni, B. K., MTech PhD	Temp Lectr

**German**

Roemer, Elisabeth, DPhil Vienna	Lectr.
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**Hindi**

Dwivedi, H. P., MA PhD DLitt	Prof., Hd. of Dept.
Madan, I. N., MA PhD	Reader
Bhanot, S. D., MA PhD	Reader
Kuntal Megh, R., MA PhD	Lectr.
Gupta, G. C., MA PhD	Lectr
Mani, D. P., MA PhD	Lectr

**History**

Gupta, H. R., MA PhD DLitt	Prof., Hd. of Dept.
Sethi, R. R., MA PhD	Reader
Mehra, P. L., MA PhD	Reader
Sanghi, S. P., MA PhD	Lectr
Goswami, B. N., MA PhD	(on leave) Lectr
Verma, P. D., MA	Lectr.

**Journalism**

Singh, P. P., MA Missouri & Lond, BA	LLB Lond. Reader, Hd. of Dept.
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**Law**

Sraat, U. C., MA ML LLD	Principal, Univ. Law Coll
Mehra, H. R., LLM	Reader
Mengra, B. S., MA LLB	Reader
Bansari, E. H., BA LLB	Reader
Dewan, P., LLM	Reader
Choulhan, B. R., MA LLM	(on leave) Lectr.
Kishan, R., BSc LLM	Lectr
Marya, R. S., BA LLB	Lectr
Ahlwalia, S. S., BSc LLM	Lectr
Rangia, R. K., MCom LLM	Lectr.
Dhillon, R. S., LLM	Temp. Lectr
Lakshampal, C. L., BA LLB	Lectr.
Kumar, J., BA LLB	Lectr.
Sud, S. L., BA LLB	Lectr.
Jan, S. K., BA LLB	Lectr
Gupta, B. S., LLM	Lectr.
Singh, Kuldip, LLM	Lectr
Mittal, M. R., BA LLB	Lectr.
Sandhuwala, S. S., BA LLB	Lectr
Saran, G. S., LLM	Lectr
Sud, A. L., BA LLB	Lectr
Chhabra, K. S., MA LLM	Lectr

**Library Science**

Mittal, R. L., MA LLB DLSc	Lectr
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**Mathematics**

Gupta, H. R., MA PhD, FNI	Prof., Hd. of Dept.
Bambah, R. P., PhD Camo., MA Pany	Reader
Srinivasan, T. P., MA	(on leave) Reader
Luther, I. S., MA PhD	Reader
Madan, M. L., MA PhD	Lectr.
Singh, Rajender, MA PhD	Lectr
Prakash, G., MA PhD	Lectr.

**Punjabi**

Kohli, S. S., MA PhD	Prof., Hd. of Dept
Shan, H. S., MA	(on leave) Reader
Singh, R., MA	Lectr
Singh, A., MA	Lectr.
Tiwari, V. N., MA	Lectr
Singh, B., MA	Instr
Suri, K. S., MA	Instr

**Pharmaceutical Chemistry and Pharmacognosy**

Singh, N., MScTech PhD Sheff	Reader
Jan, M. K., MSc PhD	Lectr.
Atal, C. K., MPharm PhD	Lectr.
Mittal, T. C., MPharm PhD	Lectr.
Sekhon, N. S., MSc(Tech)	Lectr.
Sharma, M. L., MSc	Temp Lectr

**Pharmaceutics**

Gand, K. N., MSc PhD	Reader, Hd of Dept
Mittal, H. C., MPharm PhD	Lectr.
Baveja, S. K., MPharm	(on leave) Lectr

**Philosophy**

Nath, P., MA PhD	Reader, Hd. of Dept
Raman, N. S. S., MA PhD	Lectr.
Gool, D., MA PhD	Lectr
Singh, B., MA	Lectr

**Physics**

Anand, B. M., MSc PhD	Prof, Hd of Dept
Bhanot, V. B., MSc PhD	Reader
Sood, B. S., MSc PhD	Reader
Sood, P. C., MSc PhD	Reader
Kalia, P. N., MSc PhD	Lectr
Trehan, P. N., MSc PhD	Lectr
Sehgal, L. M., MSc	Lectr
Sharma, K. K., MSc	Lectr
Ketayal, O. P., MSc	Temp. Lectr
Sharma, R. K., MSc	Temp Lectr

**Physiology**

Bambah, Mrs S., MB BS, MRCP	Lectr
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**Political Science**

Sharma, I. D., MA PhD DLitt	Reader, Hd. of Dept
Sharma, B. R., MA	Reader
Anand, J. C., MA	Lectr
Goyal, O. P., MA	Lectr

**Psychology**

Jalota, S., MA DPhil	Prof., Hd of Dept.
Dey, M. K., MSc PhD	Reader
Deo, Mrs Pratibha, MA MEd EdD	Lectr
Singh, S. D., MA PhD Lond.	Lectr
Nighwan, Mrs H. K., MA PhD	Lectr

**Public Administration**

Khanna, B. S., MA PhD	Prof, Hd of Dept
Tyagi, A. R., MA LLB	Lectr
Deva, S., MA PhD	Lectr

**Sanskrit**

Shukla, D. N., MA PhD DLitt	Prof, Hd of Dept
Nath, J., MA	Reader
Ram, G., MA PhD	Reader
Raj, H., MA MOL	Lectr
Vidyalankar, J. D., MA PhD	Lectr
Parmanand, Shastri	Pandit
Misra, M., Shastri	Pandit
Sharma, M. M., MA Shastri	Pandit
Chaturvedi, S. D., MA	Pandit
Sharma, S. D., MA	Temp. Pandit

**Sociology**

D'Souza, V. S., MA PhD	Reader, Hd of Dept.
Sharma, M. L., MA PhD	Lectr
Pimpley, P. N., MA	Lectr
Rajagopalan, C., MA PhD	Lectr

**Zoology**

Parshad, G., PhD Edin. & Paw, MSc	Prof., Hd. of Dept.
Arora, G. L., DIC, MSc PhD Lond.	Reader
Arora, H. L., MSc PhD	(on leave) Reader
Satya, R. C., MSc PhD	Lectr
Vashist, H. S., MSc PhD	(on leave) Lectr
Bhatnagar, R. D. S., MSc PhD	Lectr.
Sud, B. N., DPhil MSc PhD	Lectr
Parshad, R., MSc PhD	Temp Lectr
Tandon, K. K., MSc PhD	Temp Lectr

**ADMINISTRATIVE AND OTHER STAFF**

Chief Accts. Officer - J. Narain Dep Registrars - B. Roy (Exams), K. C. Walia (Gen.); (Offg) Amrik Singh, MA (Admin.). Asst. Registrars - K. Mal (Co-ordination), K. L. Mukerjee (Exams); Mulkh Raj (Exams), J.

Singh, MA (Conduct); K. R. Sachdeva, MA (Accts); Brij Lal Chhabra (Secrecy) Dir of Phys Ttg - B. L. Gupta, BA PhD DPE Directress of Phys Ttg - Miss Pushpa Anand, BA DPE

**AFFILIATED COLLEGES**

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for Pre-Univ., BA, etc.]

AMBALA, D.A.V. College. Pre-Univ. (arts, sci.), BA, BSc. Principal—N. D. Grover, MSc. 26 Teachers

AMBALA CANTT., Arya Gish' College. Pre-Univ. (arts), BA. Principal—Miss Shanta Bhalu, MA. 11 Teachers.

AMBALA CANTT., G.M.N. College. Pre-Univ. (arts, sci.), BA, BSc, MA. Principal—R. N. Rishu, MA. 35 Teachers

AMBALA CANTT., S.D. College. Pre-Univ. (arts, sci.), BA, BSc, MA, PgD, Vaidya, Shastri. Principal—G. Dass, MA. 31 Teachers.

AMBALA CITY, D.A.V. College. Pre-Univ. (arts, sci.), BA, BSc. Principal—J. N. Dudge, MA DipEd DipEdAdmin Leads. 38 Teachers

AMBALA CITY, Dev Sansad College for Girls. Pre-Univ. (arts), BA. Principal—P. B. Khora, MA. 14 Teachers

AMBALA CITY, S.A. Jais College. Pre-Univ. (arts, sci.), BA, BSc. Principal—G. C. Jain, MSc. 20 Teachers

AMBITSAR, D.A.V. College. Pre-Univ. (arts, sci.), BA, BSc, MA. Principal—C. L. Arora, MSc. 60 Teachers

AMRITSAR, *Gout College for Women* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—Miss A. Nathan, MSc BT 28 Teachers

AMRITSAR, *Hindu College* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—M. C. Kapoor, MA LLB 40 Teachers

AMRITSAR, *Khalsa College* Pre-Univ (arts, sci.), BA, BSc (Agric), MA. Principal—S. S. Kapur, MSc 68 Teachers

BAIJMATHI, *Gossain Gansoh Dutt College* Pre-Univ (arts) Principal—V. S. Gossami, MA LLB 8 Teachers

BANGA (JULLENDER), *Sikh National College* Pre-Univ (arts, sci.), BA, BSc. Principal—A. S. Malik, MSc 18 Teachers

BARNALA, *S.D. College* Pre-Univ (arts, sci.), BA, BSc. Principal—R. D. Bhalla, MSc 19 Teachers

BAJALA, *Baring Ussau Christian College* Pre-Univ (arts, sci.), BA, BSc. Principal—Ram Singh, MA PhD 29 Teachers

BHATINDA, *Rajindra College* Pre-Univ (arts, sci.), BA, BSc. Principal—Tara Singh, AM PhD Hons, MSc 29 Teachers

BHAWANA, *Vishal College* Pre-Univ (arts, sci.), BA, BSc. Principal—M. T. Makhija, MA. 21 Teachers

BILASPUR, *Gout Degree College* Pre-Univ (arts, sci.), BA, BSc. Principal—R. M. Sharma, MA 19 Teachers

CHANDIA, *Gout Degree College* Pre-Univ (arts, sci.), BA, BSc. Principal—Rajinder Singh, MSc 20 Teachers

CHANDIGARH, *D.A.V. College* Pre-Univ (arts, sci.), BA, BSc. Principal—S. Ram, MA 31 Teachers

CHANDIGARH, *Gout College* Pre-Univ (arts, sci.), BA, BSc. Principal—K. S. Thapar, BA LLB LL.M., MA. 42 Teachers

CHANDIGARH, *Gout College for Home Science* BSc (Home Sci.) Principal—Miss Sherie Doonagan, MSc Wif. 8 Teachers

CHANDIGARH, *Gout College for Women* Pre-Univ (arts, sci.), BA, BSc. Principal—E. N. Shukla, MA DipEd Lond 39 Teachers

CHANDIGARH, *Punjab University Evening College* Pre-Univ (arts), BA. Principal—P. L. Anand, MA. 12 Teachers

DHARAMSALA, *Gout College* Pre-Univ (arts, sci.), BA, BSc. Principal—H. M. Dhillon, MA PhD Hons, MSc. 29 Teachers

FARIDKOT, *Brijind College* Pre-Univ (arts, sci.), BA, BSc. Principal—A. S. Shante, MSc. 27 Teachers

FATEHGAH SAHIB, *Mata Gurni College* Pre-Univ (arts, sci.), BA, BSc. Principal—S. S. Sekhona, MA. 22 Teachers

FAZILKA, *M.R. College* Pre-Univ (arts, sci.),

BA, BSc. Principal—S. Lal, MA BT. 15 Teachers

FEROZPOUR CITY, *Dev Savay College for Women* Pre-Univ (arts, sci.), BA, MA. Principal—D. Bir, MA BT 20 Teachers

FEROZPOUR CITY, *R.S.D. College* Pre-Univ (arts, sci.), BA, BSc. Principal—U. Sen, MA 26 Teachers

GURDASPUR, *Gout College* Pre-Univ (arts, sci.), BA, BSc. Principal—S. Padmanabhan, MA 45 Teachers

GURGAON, *Draacharya S.D. College* Pre-Univ (arts, sci.), BA, BSc. Ody. Principal—R. K. Sharma, MA LLB 33 Teachers

GURGAON, *Gout College for Women* Pre-Univ (arts, sci.), BA, BSc. Principal—Miss Jaswant Kaur, MA 18 Teachers

GURDAS SADIHA (LODHIANA), *G.H.G. Khalsa College* Pre-Univ (arts, sci.), BA, BSc. Principal—Kundan Singh, MA 15 Teachers

GURU TEO BAHADUR GARH, *Guru Nanak College* Pre-Univ (arts), BA. Principal—H. S. Dhillon, MA PhD 6 Teachers

HASIANA (HOSHIARPUR), *Hindu National College* Pre-Univ (arts, sci.), BA. Principal—L. C. Khurana, MA PhD Lond 14 Teachers

HISAR, *Dayanand College* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—D. N. Sharma, MA. 35 Teachers

HISAR, *Fateh Chand College for Women* Pre-Univ (arts), BA. Principal—Miss Janki Chopra, MA. 11 Teachers

HISAR, *Gout College* Pre-Univ (arts, sci.), BA, BSc. Principal—S. S. Gupta, MSc PhD 22 Teachers

HOSHIARPUR, *D.A.V. College* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—R. Ram, MA. 52 Teachers

HOSHIARPUR, *Gout College* BA, BSc, MA. Principal—Indar Singh, MS MSc. 51 Teachers

HOSHIARPUR, *S.D. College* Pre-Univ (arts, sci.), BA, MA. Principal—A. Prasad, MSc 14 Teachers

HOSHIARPUR, *Vaishwanar Nand Vedic Research Institute* MA, Acharya, Shastri. Principal—V. Bandhu Shastri, MA MOL 7 Teachers

JAGHAI, *Lajpat Rai Memorial College* Pre-Univ (arts, sci.), BA. Principal—F. C. Arora, MA. 19 Teachers

JALAJAR, *Nehru College* Pre-Univ (arts, sci.), BA. Principal—D. N. Kak, MA. 16 Teachers

JIND, *Public College* Pre-Univ (arts, sci.), BA, BSc. Principal—S. N. Rao, MA PhD. 15 Teachers

JULLANDER, *D.A.V. College* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—B. S. Bahl, MSc. 105 Teachers

JULLUNDER, *Doaba College* Pre-Univ (arts, sci.), BA, BSc, MA Principal—G. D. Khanna, MA BT 33 Teachers.

JULLUNDER, *Hau Rai Mahala Mahavidyalaya* Pre-Univ. (arts), BA, MA. Principal—V. Anand, MA. 20 Teachers

JULLUNDER, *Kanya Mahavidyalaya* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—Miss L. Vats 35 Teachers

JULLUNDER, *Lyalpur Khalsa College*. Pre-Univ. (arts, sci.), BA, BSc, MA Principal—R. S. Sachdev, MA 39 Teachers

JULLUNDER, *Lyalpur Khalsa College for Women* Pre-Univ (arts, sci.), BA Principal—Miss S. K. Avtar Singh, MA BT. 12 Teachers.

JULLUNDER, *State College of Sports* BA, BSc Principal—S. Nath, MA 10 Teachers.

KATHAL, *R.K.S.D. College* Pre-Univ (arts, sci.), BA. Offg. Principal—B. N. Gupta, MA. 14 Teachers

KALAMAJRA KHANNA (LUDHIANA), *A.S. College*. Pre-Univ (arts, sci.), BA, BSc. Principal—S. Rana, MA BT 19 Teachers.

KAPURTHALA, *Ranधी College*. Pre-Univ (arts, sci.), BA, BSc, Prabhakar, Prajna, Visharad, Shastri Principal—A. C. Kapur, MA PhD. 28 Teachers.

KARNAL, *D.A.V. College for Women* Pre-Univ (arts) Principal—Mrs B. Patil 13 Teachers

KARNAL, *Dyal Singh College* Pre-Univ (arts, sci.), BA, BSc. Principal—Capt A. N. Kapur, MA 37 Teachers

KARALI, *Central Research Institute* BSc honours in microbiol. Principal—J. B. Shrivastav, MD Bsc., DipBact Lond 8 Teachers

KHANNA, *Shri Saraswati Sanskrit College* Prajna, Visharad, Shastri, Rattan, Prabhakar Principal—V. N. Shastri 7 Teachers.

LUHDIANA, *Arya College*. Pre-Univ (arts, sci.), BA, BSc, Prabhakar, Gynns Principal—R. N. Kapur, MSc 24 Teachers

LUHDIANA, *G.G.N. Khalsa College*. Pre-Univ (arts, sci.), BA. Principal—Sujan Singh, MA LLB 19 Teachers

LUHDIANA, *Gout College*. Pre-Univ. (arts, sci.), BA, BSc, MA. Principal—K. N. Dutt, MA Camb. 88 Teachers.

LUHDIANA, *Gout College for Women* Pre-Univ. (arts, sci.), BA, BSc. Principal—B. K. Dhillon, MSc. 45 Teachers.

LUHDIANA, *Khalsa College for Women*. Pre-Univ (arts, sci.), BA. Principal—Miss S. Sen, BA Lond., BT. 21 Teachers

MUKHUPUR (HOSHARPUR), *S.G.G.S. Khalsa College* Pre-Univ (arts, sci.), BA, BSc. Principal—Pritham Singh, MSc 17 Teachers.

MALHOTRA, *Gout College*. Pre-Univ (arts,

sci.), BA. Principal—Kesar Singh, MSc PhD 29 Teachers.

MANDI, *Vallabh Mahavidyalaya* Pre-Univ (arts, sci.), BA, BSc Principal—G. L. Sharma, MA BT 26 Teachers.

MANDIDARWALI, *Gout Narak College* Pre-Univ. (arts, sci.), BA, BSc Principal—D. D. Vaid, MA. 11 Teachers

MOGA, *D.M. College* Pre-Univ. (arts, sci.), BA, BSc. Principal—P. K. Syngal, MA 32 Teachers

MUKTSAR (FERROZPORE), *Gout College* Pre-Univ (arts, sci.), BA, BSc Principal—H. V. Bhargava, MEd MA. 21 Teachers

NABHA, *Gout Rupnandan College*. Pre-Univ (arts, sci.), BA, BSc. Principal—Mohan Singh, MSc 26 Teachers

NABHA, *Gout Sanskrit Vidyala*. Prajna, Shastri, Rattan, Bhushan, Prabhakar. Principal—S. Ram, Shastri. 7 Teachers

NALIAN, *Shri Gurm Rai Degree College* Pre-Univ (arts, sci.), BA, BSc Principal—S. N. Sharma, MA 12 Teachers.

NARNAL, *Gout College*. Pre-Univ (arts, sci.), BA, BSc. Offg. Principal—B. L. Sharma, MA 23 Teachers

NAWANSHAH DOABA, *B.L.M. Girls' College* Pre-Univ (arts), BA Principal—Mrs Gita Anja, MA MOL 9 Teachers.

NAWANSHAH DOABA (JULLUNDER), *Radha Kishan Arya College* Pre-Univ. (arts, sci.), BA, BSc Principal—N. Lal, MA 24 Teachers

PALWAL, *S.D. College* Pre-Univ. (arts, sci.), BA, BSc Principal—R. C. Sharma, MSc. 18 Teachers.

PANIPAT, *Arya College* Pre-Univ (arts, sci.), BA, BSc Principal—L. D. Dalshut, MA. 26 Teachers

PANIPAT, *I. B. Bharati College for Girls*. Pre-Univ. (arts), BA. Principal—Miss Anita Shrikant, MA 8 Teachers.

PATANKOT, *S.M.D.R.S.D. College*. Pre-Univ. (arts, sci.), BA. Principal—R. Rana, BSc Lond. 22 Teachers.

PATIALA, *Gout College for Women* Pre-Univ (arts), BA. Principal—Mrs. S. Anand, MA. 19 Teachers.

PATIALA, *Gout. Gurmukhi Vidyala* Budhman, Vidwan, Gynns Principal—N. S. Grewal, MA. 5 Teachers

PATIALA, *Gout. Sanskrit Vidyala* Prajna, Visharad, Shastri, Rattan, Bhushan, Prabhakar Principal—D. Dutt, Acharya 15 Teachers.

PATIALA, *Khalsa College* Pre-Univ (arts, sci) Principal—Ganda Singh, MA PhD 12 Teachers.

PATIALA, *Mahendra College* Pre-Univ (arts, sci.), BA, BSc, MA. Principal—G. Lal, MA DSc Brussels 84 Teachers.

PELAGWARA, *Ranagaria College*. Pre-Univ (arts, sci.), BA, BSc, MA Principal—Amar Singh, MSc LLB. 32 Teachers

QADIAN, *Sikh National College*. Pre-Univ. (arts, sci.), BA, BSc Principal—Harkishan Singh, MA 18 Teachers.

RAMPUR BUSHAIN, *Govt College*. Pre-Univ (arts, sci.), BA. Principal—B. L. Handa, MA 16 Teachers

REWARI, *Ahri College*. Pre-Univ. (arts, sci.), BA, BSc Principal—Dhanam Singh, MSc. 27 Teachers.

ROHTAK, *All India Jat Heroes' Memorial College*. Pre-Univ (arts, sci.), BA, BSc Principal—Lt.-Col. T. Chand, MA CertEd 38 Teachers

ROHTAK, *Govt College*. Pre-Univ (arts, sci.), BA, BSc, MA. Principal—N K Aggarwal, MA 43 Teachers

ROHTAK, *Govt College for Women*. Pre-Univ. (arts, sci.), BSc, BA Principal—Miss A. Doss Gupta, MA Burs, Assoc Inst of Educ, Lond, BA BT 23 Teachers.

ROHTAK, *Vaish College*. Pre-Univ. (arts, sci.), BA, BSc. Principal—G. L. Mittal, MSc. 34 Teachers.

RUPAR, *Govt College*. Pre-Univ (arts, sci.), BA, BSc. Principal—P. C. Joshi, MSc PhD 36 Teachers.

SANGRUR, *Ranbir College*. Pre-Univ. (arts, sci.), BSc, BA Principal—J D Verma, MA PhD 26 Teachers

SANGRUR, *Ranbir College for Women*. Pre-Univ

(arts), BA Principal—Miss S. Malhotra, MA BT. 7 Teachers.

SATHIHALA (AMRITSAR), *National College*. Pre-Univ (arts, sci.), BSc, BA Principal—Kartar Singh, MA 13 Teachers.

SEDRWAN KHURD (LAUDHIANA), *Khalsa College for Women*. Pre-Univ. (arts), BA Principal—Miss A. Kuriyen, MA BT. 11 Teachers

SIMLA, *Rana Padam Chand S.D. Bhargava College*. Pre-Univ (arts, sci.), BA, BSc, MA. Principal—A. R. Khanna, MA. 31 Teachers

SIMLA, *National College*. Pre-Univ. (arts, sci.), BA, BSc Principal—G S Talib, MA, 18 Teachers.

SOLAN, *Govt College*. Pre-Univ (arts, sci.), BA, BSc. Principal—S D Puri, MA. 24 Teachers

SONEPAT, *Chhota Rani Arya College*. Pre-Univ (arts, sci.), BA, BSc. Principal—S N. Sanyal, MA BT. 22 Teachers.

SONEPAT, *Hindu College*. Pre-Univ (arts, sci.), BA, BSc Offg Principal—O P Dogra, MSc 70 Teachers

TANDA UPMAR, *Govt College*. Pre-Univ. (arts, sci.), BA, BSc. Principal—R. G. Bapna, MCom 25 Teachers

YAMUNANAGAR, *D.A.V. College for Girls*. Pre-Univ. (arts, sci.), BA. Offg Principal—Mrs N Banerji, MA. 11 Teachers

YAMUNANAGAR, *M.L. National College*. Pre-Univ (arts, sci.), BA, BSc. Principal—Tilak Raj, MA. 24 Teachers

YAMUNANAGAR, *M.L. National Evening College*. Pre-Univ. (arts), BA. Principal—Tilak Raj, MA.

## PROFESSIONAL COLLEGES

AMBALA CITY, *Sohan Lal Training College*. BT. Principal—R. L. Ahuja, MA BT PhD. 8 Teachers.

AMRITSAR, *Dental College*. BDS Principal—J C. Manchanda, BA. 13 Teachers.

AMRITSAR, *Khalsa College* (BSc(Agr)). Principal—S S Kapul, MSc 8 Teachers.

AMRITSAR, *Khalsa Training College*. BT; dipl. in gen. ed. Principal—Gurnam Singh, MA BT. 11 Teachers.

AMRITSAR, *Medical College*. MB BS, BSc (anat., bio-chem.), MSc (psychol.), DCH, DMR, DMPB, DGO, DLO, DTD, DOMS; dipl. in anaesth., dipl. in pharmacy and dressers' course. Principal—S. R. Dhali, MB MS. 136 Teachers.

AMRITSAR, *Sarawati Training College for Women*. BT. Offg Principal—Mrs. R. L. Sethi, MA BT. 9 Teachers.

BHUIWANI, *K M Teachers' Training College*. BT, BEd(Basic). Principal—Deva Singh, MA BT. 10 Teachers.

BHUIWANI, *Technological Institute of Textiles* (BSc(Textiles)) Principal—D L. Sen, MScTech Maw., MSc Baw., FRIC 17 Teachers.

CHANDIGARH, *College of Architecture*. BArch Principal—A. R. Prabbhwalkar, DepTP Lond 3 Teachers

CHANDIGARH, *Govt. Basic Training College* (BEd(Basic)) Principal—V S Mathur, MA Lond, DipEd Camb. 17 Teachers.

CHANDIGARH, *Punjab Engineering College*. BSc (Engg) in civil, mech and electr. engin; MSc (Engg) Principal—R L. Khanna, MIE(India). 93 Teachers

CHANDIGARH, *Punjab University Law College*. LL.B. Principal—U. C. Sarkar, MA LL.D. 21 Teachers.

DIHARAMALA, *Govt. Basic Training College*. BEd(Basic) Principal—N L. Dossajh, MA PhD. 12 Teachers.

FARIDKOT, *Govt. Training College*. BEd(Basic) Principal—G S. Koorer, MSc BEd 9 Teachers.

**FEROZEPOR, Dev Savay Training College for Women** BEd(Basic) Principal—A. Nath, MA. 14 Teachers.

**GURDAS SAHIAN, G.H.G. Khalsa Training College** BT Principal—B. S. Bajwa, MA MEd. 7 Teachers.

**HISAR, Punjab College of Veterinary Science and Animal Husbandry.** BVSc. Principal—M. L. Kohli, MS. 37 Teachers.

**JULLANDHUR, Govt Training College for Teachers** BT, MEd. Principal—V. R. Tanna, MA MEd. 18 Teachers.

**JULLANDHUR, Montgomery G.N. Bania Training College.** BEd(Basic) Principal—Harnam Singh, MA BT. 12 Teachers.

**JULLANDHUR, University College of Commerce** BCom Principal—K. Datta, MA Camb., BCom Lond. 10 Teachers.

**KARNAL, Dairy Science College** BSc(Dairying), MVSc Principal—N. Dastur, MSc PhD. 44 Teachers.

**LUDHIANA, Christian Medical College** MB BS. Principal—M. A. Casberg, MB BS Lond., MD, FACS. 81 Teachers.

**LUDHIANA, Govt. Agricultural College** BSc(Agr), MSc(Agr). Principal—Sardar Singh, PhD. 73 Teachers.

**LUDHIANA, Guru Nanak Engineering College.** BSc(Engg) in civil, electr. and mech. engin. Principal—Tara Singh, BSc(Eng) Lond., M&EE Recorkee, MIE(India). 57 Teachers.

**LUDHIANA, Malwa Training College** BT, dipl. in gen. sci. Principal—Sher Singh, MA PhD. 10 Teachers.

**MOGA, D.M. Training College** BEd(Basic); dipl. in gen. sci. Principal—K. C. Kher, MA BEd. 8 Teachers.

**MURTHA, Khalsa Training College.** BEd(Basic) Principal—S. Iqbal Singh, BSc DipGeog Lond. 11 Teachers.

**NAWANSHAHIR DOABA, Dr. Amr Nath Training**

**College.** BT. Principal—S. S. Lal Mehra, MA MEd. 10 Teachers.

**PATIALA, Dental College** BDS. Principal—Amarnath Singh, MD, MRCP. 10 Teachers.

**PATIALA, Govt. Bahawal College of Commerce.** BCom Principal—R. Nairan, MA BCom LLB. 7 Teachers.

**PATIALA, Govt. College of Physical Education** Dipl. in phys. educn., BPE Principal—S. R. Mahindoo, BA. 7 Teachers.

**PATIALA, Govt. Medical College** MB BS, MD, MS. Principal—Amarnath Singh, MD, MRCP. 121 Teachers.

**PATIALA, State College of Education.** MEd, BEd(Basic). Principal—R. R. Sharma, MA BT. BEd. 25 Teachers.

**PATIALA, Thapar Institute of Engineering and Technology.** BSc(Engg) in civil, electr. and mech. engin. Principal—T. H. Terry, BSc(Eng) Lond. 49 Teachers.

**PHAGWARA, Rangarhara Training College.** BT Principal—Sampurn Singh, MA DipEd Lond. 9 Teachers.

**REWARI, Akor College.** BCom Principal—Dharam Singh, MSc. 2 Teachers.

**REWARI, Teachers' Training College** BT Principal—S. Swarup, MA BT. 10 Teachers.

**ROHTAK, Chhota Ravi College of Education** BEd(Basic), dipl. in gen. sci. Principal—S. S. Gill, MA. 11 Teachers.

**ROHTAK, Faah College.** BCom Offg Principal—G. L. Mittal, MSc. 6 Teachers.

**SIDEWAN KHUND, Khalsa Bania Training College for Women.** BEd(Basic) Principal—A. S. Sodhi, MA MEd. 11 Teachers.

**SIMLA, Govt. Training College for Women.** BT. Principal—Miss K. Pancha, MA MEd BT. 13 Teachers.

**SOLAN, Govt. Bania Training College** BEd(Basic). Principal—N. L. Kachroo, MA BT. 13 Teachers.

## GENERAL INFORMATION

Following the partition of the Punjab, the univ. was establd. in Oct. 1947, under ordinance No. VII, promulgated by the governor of the Punjab. This ordinance was subsequently replaced by the Punjab Univ. Act No. VII of 1947. At present the univ.'s jurisdiction extends over the Punjab and Himachal Pradesh.

All the univ. teaching depts. are now located in Chandigarh.

The univ. is a teaching, affiliating and examining body and is open to all, irrespective of colour, creed, class or sex.

**CONSTITUTION.** The univ. consists of the chancellor, vice-chancellor, senate, syndicate. The

governor of the Punjab is *ex-officio* chancellor of the univ. The vice-chancellor, apptd. by the chancellor, holds office for 3 yrs. but is eligible for reappnt. The senate have the entire management of, and superintendence over, the affairs and property of the univ. in accordance with the statutes, rules and regns. The exec. govt. of the univ. is vested in the syndicate, which consists of the vice-chancellor as chairman, the dir. of pub. instrcn., Punjab, the dir. of educn., Himachal Pradesh, and 15 *ex-officio* or ord. fellows elected by the facs. The registrar is chief exec. officer of senate and syndicate.

**INCOME** (1960-61). Rs. 20,123,095 (state govt.),

Ra. 2,882,671, central govt., Rs. 1,202,887, U.G.C. grants, Rs. 4,887,194; tuition, exam & other fees, Rs. 10,077,904; other sources, Rs. 172,439.

**FACULTIES AND DEANS** Agric., . . . arts, Jodh Singh, comm., Hon. Justice Teja Singh, edmed, Mrs. Serin Khanna, engg & technol., Principal R. L. Khanna, law, Dr. M. C. Mahajan, langs., Prof. D. C. Sharma, med., S. S. Anand, sci., Prof. P. N. Mehra (bot.); vet. sci., Principal M. L. Kohli; dean of med. instruat., Prof. H. R. Gupta(hon.).

**LIBRARIES** Univ. libr. (at Chandigarh): about 150,000 vols.

**LABORATORIES.** Bot., chem., geog., geol., maths, phys., psychol., zool., all at Chandigarh.

**TEACHING HOSPITALS** are attached to all 3 med. colls. in the state.

**ADMISSION.** The min. qualif. necessary for admission to the univ. is the passing of pre-univ. or higher sec. exam. or an exam. recog. as equivalent.

**Pre-univ.,** 1 yr. after matric, pre-profess., 1 yr. after pre-univ.

**FIRST DEGREE** BA, BSc, BSc. hons., BCom, BSc(Hons), BPE, 3 yrs. after higher sec. or pre-univ. exam., BSc(Agric), BSc(Technol.), BSc (Dairying), BArch, 4 yrs. after higher sec. or pre-univ. exam. BVSc, 4 yrs. after inter sci. or pre-med., BSc(Engg), BSc(ChemEngg), 4 yrs. after inter. (non-med. group) or pre-engin., BPharm, 3 yrs. after inter. (med. group), MB BS, 5 yrs. after inter. (med. group) or pre-med.; BDS, 4 yrs. after inter. (med. group) or pre-med.

**HIGHER DEGREE** BT, BEd, 1 yr. after grad.; LL.B., 3 yrs. after grad., MA in mod. Indian hist., Arabic, econ., Engg., geog., Hindi, hist., maths, music, Panjabi, Persian, phys., pol. sci., psychol., pub. admin., Sansk., social, Urdu, 2 yrs. after grad. MSc in anthropol., geol., home sci., 2 yrs. after BSc. MSc(Dairying), 2 yrs. after BSc (Dairying). MSc hons. sch. in phys., chem., bot., zool., 1 yr. after BSc hons. sch. MSc(Engg) in highway engin., 1 yr. after BSc(Engg). MSc (Agric), 2 yrs. after BSc(Agric) MCom, 2 yrs. after BCom. LL.M., 1 yr. after LL.B. LL.D., by res. after LL.M. degree. MED, 3 yrs. after BA, BT, or 1 yr. after MA, BT MS, MD, by thesis and exam., 3 yrs. after MB BS. MPharm, 1 yr. after BPharm. MVSc, 3 yrs. after BVSc. PhD (arts and sci.), by thesis, 3 yrs. after master's degree. PhD (med.), by thesis and exam., 3 yrs. after MB BS. PhD (engin. and technol.) by thesis, 2 yrs. after MSc(Engg) DLitt, DSc, by thesis, 6 yrs. after master's degree DOL (oriental), 6 yrs. after master's degree.

**HONORARY DEGREE** LL.D., DLitt, DSc

**PRIVATE CANDIDATES** Men in certain professions such as teaching, librarianship or univ. service, and those who are deaf or blind, may appear as private candidates in arts but not sci. \* Women may appear as private candidates in arts

but not sci., they may not appear for any profess. exam., nor for the master's degree in sci.

**DIPLOMAS** Pharm. & dressers' course, 2 yrs. after matric, French, 1 yr. after inter or cert. course, 1 gen. sci., 2 yrs. after inter sci.; journalism, phys. educn., library sci., each 1 yr. after 1st degree; anaesthesia, ophthalmic med. & surg. (DOMS), tuberculous dis. (D.T.D.), each 1 yr. after MB BS or LMS, laryngol. & otol., in abeyance.

**CERTIFICATES** In oriental langs., each 1 yr., Rattan, Bhushari, Prabhakar (in Hindi); Pragna, Visharad, Shastri (in Sansk.), Bhuduman, Vidwan, Gyan (in Panjabi); Adib, Adib Alam, Adib Farid (in Urdu) Tanol, German, Russian, French, each 1 yr. after higher sec. or pre-univ. Post MA certs. in econ. stats, indust. relns. & labour welfare, agric. econ., each after MA.

**STUDY LEAVE** up to 2 yrs., on three-quarters' pay, is granted after 5 yrs.' permanent service.

**FEES** for tuition. BSc hons. sch., BSc(Chem Engg.), BPharm, BSc hons. geol., BCom, dipl. in journalism, dipl. in libr. sci., MA (incl. geog.), Rs. 15 p.m.; MA in psychol., MSc hons. sch., MPharm, MSc in geol., MCom, Rs. 25 p.m.

**ACADEMIC YEAR.** July to April 3 terms. Term dates (approx.) July 13 to Sept. 10; Oct. 8 to Dec. 24; Jan. 2 to April 17.

**LANGUAGE OF INSTRUCTION.** Engl., except in classical and mod. Indian lang. classes, where the medium of instruat. is the lang. concerned or an allied lang. As part of the policy of replacing Engl. by Hindi and Panjabi, MA exams in Hindi and Panjabi are conducted in the lang. concerned and the MA exam. in Sansk. in Sansk., Hindi and Panjabi. A candidate for the matric, inter., BA, BCom exams. can choose Engl. and any one of the Indian langs. (Urdu, Hindi or Panjabi) for papers in subjs. other than Engl. and sci.

**EXTENSION LECTURES.** The univ. invites specialists to address the students in various colls. under the scheme of the U.G.C.

**ENTRANCE SCHOLARSHIPS** Awarded on results of following exams: matric (127 scholps.); higher sec. core (20), higher sec. elect. (30), pre-univ. (30).

**STUDENT RESIDENCES** Every affiliated coll. has a hostel attached. No student is admitted until his residence is arranged. Every student of a coll. not living with parents or guardians must reside during teaching period at an approved host. There are 6 hostels (accommodating 1850) on the univ. campus at Chandigarh.

**STUDENT HEALTH.** Each affiliated coll. has a med. officer.

**SPORT.** The dir. of phys. trg. is in charge of the phys. welfare of male students; the directress is in charge of that of female students. In addn., each affiliated coll. has a phys. dir. who conducts student sports and other phys. activities there.

**NATIONAL CADET CORPS.** A no. of N.C.C. bns. have been allotted to about 100 colls. for men.



This corps has taken the place of the univ. O.T.C. Members of the N.C.C. may offer military trg. as addnl optional paper (in place of addnl optional vernacular) for the inter. and degree exams.

**FOREIGN INFORMATION BUREAU.** The univ. foreign information bureau deals with enquiries about professl. studies, tech. trg. and facilities for higher lrv. from students who wish to go abroad for further study at their own expense; Sec., Prof. P. N. Mehra.

**WELFARE DEPARTMENT.** To organize the welfare activities of the students, the univ. has a separate youth welfare dept. at Chandigarh.

**PUBLICATION BOARD.** Started in 1948 to prepare and encourage the publicn. of standard works in Hindi and Panjabi.

**PUBLICATIONS.** *Calendar*; *Univ. News* (every 2 mos.); *Arts and Sci. Journals* (from time to time)

A UNIVERSITY PRESS has been set up to deal with most printing work except books. New machines are being installed so that books may be printed at the press.

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	43,143	625
Women . .	13,192	—
Total	56,335*	625

Distribution by Faculties: *Agric. & dairy sci.*, 1447; *arts*, 30,174; *comm.*, 551; *educn.*, 2907; *engin. & technol.*, 2089; *law*, 873; *med.*, 1762; *oriental lang.*, 265; *sci.*, 16,676; *vet. sci. & animal husband.*, 316.

Included in the figures above are—

Pre-University students, 22,585.

Postgraduate students, 2669

Students from other countries, 147 (Countries from which largest numbers came: Fed. of Malaya, 35; British E. Africa, 31; Nepal, 16)

DEGREES AWARDED (1961): BA, 7847; BSc, 881; BSc hon., 83; BSc(Engg), 314; BCom, 65; BSc(Agric), 175; LLB, 258; LLB (final), 236; BVSc, 97; BPharm, 8; BT, 1652; BEd, 1123; MA, 1844; MB BS, 198; BDS, 18; BPh, 13; BSc(Textiles), 48; MEd, 20; MSc hon., 75; MSc(Agric), 41; MSc(Engg), 1; MCom, 1; MVS, 3; BSc(Dairying), 21; LLM, 1; MPharm, 7; PhD, 13

DIPLOMAS AWARDED (1961). Journalism, 32; DPE, 32; DTD, 6; teaching of gen. sci., 42; pharm. & dressers' course, 33; French, 1; smotherhood, 5; libr. sci., 34

\* Includes 34, 753 at the Affiliated Colleges

# PATNA UNIVERSITY\*

Founded 1917

Postal Address: Patna 5, Bihar State, India

Cables and Telegrams: Patversity, Bihar State

Telephones: Registrar, Patna 2322; Office, Patna 4101

CHANCELLOR—H E THE GOVERNOR OF BIHAR (ex officio)

VICE-CHANCELLOR—G JACOB, MA MSc PhD

TREASURER—B N PRASAD, PhD Edin, MSc MB

REGISTRAR—K P. AMBASTHA, PhD Edin, MA

FINANCE OFFICER—J D CHUGHUARY, BCom

BUDGET AND ACCOUNTS OFFICER—P. S. SHARMA, MA DipinEd

DEPUTY REGISTRAR—S Y HUSSAIN, BA

## HEADS OF UNIVERSITY TEACHING DEPARTMENTS

<b>Anatomy</b>		<b>Geology</b>	
Sinha, T. P., MS Pass.	Prof.	Jun, A. P., MSc	Asst. Prof.
<b>Ancient Indian History and Archaeology</b>		<b>Hindi</b>	
Sinha, B. P., MA PhD Lond	Univ. Prof.	Prasad, S., MA DLitt	Asst. Prof.
<b>Applied Economics and Commerce</b>		<b>History</b>	
Mishra, B. R., MA LLB PhD DSc Lond	Univ. Prof.	Sharma, R. S., MA PhD Lond.	Univ. Prof.
<b>Arabic</b>		<b>Labour and Social Welfare</b>	
Ahmad, S. A., MA DLitt	Univ. Prof.	Sinha, G. P., MA PhD Cern.	Univ. Prof.
<b>Bengali</b>		<b>Maithili</b>	
Ghoshal, S. N., MA PhD	Reader	Shastri, S. J., MA PhD Lond.	Univ. Prof.
<b>Botany</b>		<b>Mathematics</b>	
Roy, R. P., MSc PhD Camb.	Univ. Prof.	Chatter, V. R., DSc	Univ. Prof.
<b>Chemistry</b>		<b>Medicine</b>	
Sinha, P. C., MSc PhD	Univ. Prof.	Das, M., MB BS DTM DMRE, MRCP	Prof.
<b>Economics</b>		<b>Obstetrics and Gynaecology</b>	
Jha, D., MA	Prof.	Upadhyay, S. N., MD, FRCS	Prof.
<b>Education</b>		<b>Ophthalmology and Otorhinolaryngology</b>	
Singh, R. R., MA MEd	Lectr.	Sinha, A. K., MS DLO DO	Prof.
<b>English</b>		<b>Pathology</b>	
Sinha, R. K., MA DPhil Oxon.	Univ. Prof.	Modi, N. L., MD PhD	Prof.
<b>Geography</b>		<b>Persian</b>	
Dayal, P., MA PhD Lond.	Univ. Prof.	Rahman, A., MA BL	Asst. Prof.

\* Member of the Association of Universities of the British Commonwealth

<b>Pharmacology</b>		<b>Sanskrit</b>	
Achari, G., MD PhD	Prof	Pandey, C. K., MA	Asst. Prof.
<b>Philosophy</b>		<b>Sociology</b>	
Jha, H. M., MA	Univ. Prof.	Prasad, N., MA Cal. & Patna, DLitt	Univ. Prof.
<b>Physics</b>		<b>Statistics</b>	
Chatterjee, L. M., MSc	Prof.	Lal, D. N., MA PhD	Univ. Prof.
<b>Physiology</b>		<b>Surgery</b>	
Sinha, A. S., MD PhD	Prof.	Singh, V. N., MB BS, FRCS	Prof.
<b>Political Science</b>		<b>Urdu</b>	
Varma, V. P., MA PhD	Reader	Ahmad, S. A., MA DLitt	Univ. Prof.
<b>Psychology</b>		<b>Zoology</b>	
Mohan, S. M., MA PhD Lond.	Univ. Prof.	Keshava, S., PhD Edu., MSc	Prof.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar :

## CONSTITUENT COLLEGES

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

**BANKIPORE (PATNA), Bihar National College** (tel. 4356) Pre-Med., BA, BSc. Acgt. Principal—L. M. Murmu, MA. Profs. INGL.—S. R. Prasad, MA, HIST.—B. P. Mukundar, MA PhD, HINDI—T. N. P. Singh, MA, SANSK.—V. Shastri, MA; PERSIAN—A. Khar, MA, URDU—S. N. Karim, MA, ECON.—S. K. Bose, MA, PSYCHOL.—K. K. Jannar, MA; POL. SCI.—S. L. Singh, MA, MATHE.—L. M. M. Prasad, MA, PHILOS.—A. K. Verma, MA, CHEM.—J. C. Banerjee, MSc PhD Lond., PHYS.—B. Nath, MSc; BENGALI—S. K. Chatterjee, MA. 71 other Profs. and Lectrs.

**BANKIPORE (PATNA), Magadh Mahila College** (tel. 3454) BA, BSc. Principal—Mrs Ramola Nandi, MSc Lond., MA, HINDI—Mrs Vidyawati Gupta, MA, INGL.—Miss Ila R. Mallick, MA (on leave), HIST.—Mrs Jyotirmoyee Basu, MA, ECON.—Mrs Ashutosh Bose, MA, CHEM.—Miss Rani Mishra, MSc PhD; PHYS.—Mrs Pratima Sanyal, MSc, BOT.—Miss S. Chatterjee, MSc; ZOOL.—Mrs Gauri Ganguly, MSc PhD; PHILOS.—Miss Anura Sen Gupta, MA PhD, PSYCHOL.—Mrs Sharda Sinha, MA; POL. SCI.—Mrs Bhagyawati Singh, MA, SANSK.—Mrs. Aditi De, MA, BENGALI—Miss Aruna Roy, MA; DOM. SCI.—Mrs. Pratima Verma, MA, MUSIC—... 13 other Lectrs.

**BANKIPORE (PATNA), Patna Training College** (tel. 4425) Dipl. in educn. Principal—D. P. Gupta, PhD Bihar, MA MED. 4 other Teachers.

**BANKIPORE (PATNA), Patna Women's Training College** (tel. 2712). Dipl. in educn. Principal—

Mrs Shakuntala Sinha, MA DipEd. 3 other Teachers.

**BANKIPORE (PATNA), Prince of Wales Medical College** (tel. 4284). MB BS. Principal—V. N. Singh, MB BS, FRCS. Profs. OPHTHALMOLOG.—D. K. Bose, DQ, MRCP; ANAT.—M. Singh, MB BS PhD; BIOCHEM.—A. Sharma, PhD Lond., MB BS, PHYSIOL.—M. P. Sinha, MD Zür., MB BS; PREV. AND SOC. MED.—J. P. Agrawal, DTM&H Lond., DPH Lond., MB BS, M.D.—H. N. Singh, MD DTM&H, MRCPed; RADIO.—R. V. P. Sinha, MS, FRCS; PHARMACOL.—B. K. Acharya, MD, PATHOL.—Mohan Singh, MD DCP (Offg); ROENTGEN MED.—S. M. Prasad, MB BS DMRE; OBSTET. AND GYNACOL.—H. B. Sinha, MS. 40 other Profs. and Lectrs.

**BARHAT (PATNA), Bihar College of Engineering** (tel. 2185) BSc(Eng) Principal—D. N. Singh, BSc PhD. 41 other Profs. and Lectrs.

**BARHAT (PATNA), Law College** (tel. 2368). BL, ML. Principal—V. V. Doshpande, MA LL.M. Baw. Vice-Principal—S. A. Varis, MA Camb. 25 other Lectrs.

**PATNA, Institute of Music**. Cert. in music. Dir.—L. N. Kapoor. Instr.

**PATNA, Institute of Psychological Research and Services**. Dir.—A. K. P. Sinha, MA MSc PhD.

**PATNA, Institute of Public Administration**. Dir.—V. P. Verma, MA PhD Cal. Asst. Dir.—B. Singh, MA.

**PATNA, Patna College** (tel. 4329) BA, BCom. Principal—M. Z. Abdin, BA Lond. Hds. of

Depts.—HINDI—K. P. Singh, MA; SANSK.—B. Jha, MA D.Litt., ANGL.—D. D. Chatterjee, MA, HIB.—Y. Mishra, MA PhD, PSYCHOL.—T. Nath, MA, ARABIC—A. A. Kazi, MA, PERSIAN—F. Hader, MA, URDU—S. M. Saddiqui, MA; MATHEMATICS—A. Mishra, MA, ECON.—R. N. Tiyathi, MA PhD Lond., MATHE.—S. C. De, MA PhD, POL. SCI.—C. Jha, MA PhD(Aust.). 46 other Profs. and Lectrs.

PATNA, Patna Women's College (tel. 2186) BA Principal—Sr. Mary Lucile, MA Lond. Profs.—Rev. Sr. Mary Florence; GEOG.—Sr. Honoline; MATHE.—Miss Abha Mitra; PHILOS.—Mrs. Aruna Halder, MA PhD; HIST.—

Rev. Sr. Mary Scholastica, HINDI—Mrs. Jankana Verma, MA, CHIN.—Sr. Marulla; PHYS.—Miss Bodapati V. Srinakumar; SANSK.—Miss Roma Bose, MA, URDU—Mrs. Maimoonza Jafri, MA, 17 other Lectrs.

PATNA, Science College (tel. 11 2242). BSc Principal—N. S. Nagendra Nath, MSc PhD Camb, FNI Hds of Depts. MATHE.—R. K. P. Singh, PhD Lond.; ZOOL.—A. P. Jain, MSc, 2001.—D. P. Sinha, MSc PhD MScG, not.—A. S. Yadav, PhD Lond., PHYS.—M. N. Verma, MSc, CHIM.—J. N. Chatterjee, DSc, PHOL.—K. N. Misra, MA, HINDI—R. Roy, MA, 56 other Profs. and Lectrs.

## GENERAL INFORMATION

Founded as a teaching and affiliating univ., 1917. Most of the teaching was originally conducted in the 'admitted colleges'. From 1952 to 1960 the univ. was teaching and residential under the Patna University Act, 1951, with its jurisdiction within the Patna municipal corporation area. From 1960 to 1964 it was a teaching and affiliating univ. with its jurisdiction within Patna div. From March 1964 the univ. has again become a teaching and residential univ. under a new act passed by the state legislature.

The jurisdiction of the univ. extends over the area bounded by the river Ganga on the north, the main rly. lines on the south, Patna Digha rly. lines on the west, and on the east a straight line joining B.N.R. sig. coll. and mile-post 337 on main rly. line.

CONSTITUTION. The authorities of the univ. are the senate, syndicate, academic council, fca, b.d. of courses & studies, and such other authorities as may be constituted by the statutes from time to time.

INCOME (1960-61). Total recurring and non-recurring income, Rs. 10,941,568 (govt. sources, Rs. 6,729,678; interest from investments and endowments and trust fund, Rs. 125,023; tuition fees, Rs. 1,574,903; other sources, Rs. 2,510,972).

FACULTIES. Arts, comm., educn., engin., law, med., sci.

LIBRARY 103,503 vols., 2694 MSS.

ADMISSION. For admission to pre-univ. courses in arts, sci. or comm., students are required to have passed the sec. sch. exam. or an exam. recog. by the univ. as equivalent thereto. For admission to degree courses in arts, sci. or comm., students must have passed pre-univ. exam. in arts, sci. or comm. respectively, or an exam. equivalent thereto. Pre-univ. course, 1 yr.

For admission to pre-med. or pre-engin. courses (each 1 yr.), students must have passed higher sec. sch. exam. or pre-sci. (1 yr. after matric), with

phys., chem. and biol. (for pre-med.) or phys., chem. and maths (for pre-engin.)

FIRST DEGREE. BA, BA hons., BCom, BL, BSc, BSc hons., 3 yrs. from pre-univ.; BSc(Eng), 4 yrs. from pre-engin.; MB BS, 5 yrs. from pre-med.

HIGHER DEGREES. MA, MCom, MSc, MSc (MedSci), ML, a yrs. from corresp. bachelor's degree, MEd, 1 yr. from dipl. in educn., Research degrees. PhD (in arts, comm., educn., med., sci.), DLitt, DSc, MD, MS.

DIPLOMAS. Pub. admin., educn., internat. rels., tuberculous dis. (DTD), child health (DCH), ophthalmol. (DO), laryngol. & otol. (DLO), anaesthetol. (DA), gynaecol. (DGO), clin. pathol. (DCT). 1 yr.

CERTIFICATE. Music, 3 yrs.

STUDY LEAVE. The univ. grants leave each yr. to a number of teachers for higher studies abroad. In addn., leave on half average pay is also granted. A revolving fund has also been created to grant interest-free loans to univ. teachers for study abroad.

FEES. Pre-arts, pre-comm., Rs. 105 p.a.; pre-sci., pre-med., pre-engin., Rs. 117 p.a.; BA, pt. I Rs. 105 p.a., pt. II Rs. 117 p.a.; BA hons., pt. I Rs. 141 p.a.; BSc, pt. I Rs. 117 p.a., pt. II Rs. 129 p.a.; BSc hons., pt. II Rs. 153 p.a.; BL, Rs. 144 p.a.; BSc(Eng), Rs. 96 p.a.; ML, Rs. 240 p.a.; MA, MCom, MB BS, Rs. 150 p.a.; MSc, Rs. 168 p.a.

ACADEMIC YEAR. June to May: 3 terms.

THE USUAL LANGUAGE OF INSTRUCTION is Hindi up to bachelor degree standard and English at postgrad. level.

PUBLICATIONS (all annual). Calendar, Rs. 4, Minutes, Rs. 2; Courses of Studies for each exam., 50 p.p.; Question Papers (each exam., 50 p.p.); Regulations, R. 1; Reading Lectures (on a variety of subjects), R. 1: 25 p.p. to Rs. 12.

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	9,462	—
Women . .	1,940	—
Total . . .	11,402	—

Distribution by Faculties. *Arts*, 6173; *comm.*, 644; *educn*, 291; *engin.*, 744; *law*, 570; *med*, 1265; *sci*, 1715. Total . 11,402.

Included in the figures above are :—

Pre-University students, 2121.

Postgraduate students, 2094.  
New admissions, 3346.

DEGREES AWARDED (1960-61). *Arts*. BA, 2421; MA, 824; DLitt, 2. *Comm*. : BCom, 296; MCom, 90. *Educn*. : MEd, 22. *Engin.* : BSc(Eng), 125. *Law* : BL, 117. *Med*. : MB BS, 106; MSc(MedSc), 2, MS, 35; MD, 13. *Sci*. : BSc, 332; MSc, 163. *Vet. sci* : BVSc&AH, 100. PhD (all facs.). 7.

DIPLOMAS AWARDED (1960-61). *Educn*, 183; pub admen., 1; anaesthesiol., 4; child health, 3; clin pathol., 3; gynaeol. & obster, 4; laryngol & otol., 2; ophthalmol, 2; TB dis, 3; internat relms., 3.

CERTIFICATES AWARDED (1960-61). *Music*, 4.

# UNIVERSITY OF POONA

Founded 1948

Postal Address : Ganeshtkhind, Poona 7, Maharashtra State, India

Telegrams : Unipuna

Telephones : Poona 55661-3

CHANCELLOR—P. SUBBARAYAN, MA BCL Oxon, LL.D. Dub., Governor of Maharashtra

VICE-CHANCELLOR—Mahamahopadhyaya D. V. POTDAR, BA

DEANS OF FACULTIES—AGRICULTURE—Principal S. Solomon, DAg BSc MS Calif, MSc PhD Ill., ARTS—Professor R. N. DANDEKAR, MA Bow, PhD Ber (Sanskrit); AYURVEDA—Dr. B. C. LAGO, COMMERCE—M. R. DEDNEY, MA MCom PhD, ENGINEERING—Professor G. K. OGALE, MSc MB, LAW—Professor W. D. ADKE, BA LLB, MEDICINE—Principal F. J. MENDONCA, MB BS, MENTAL, MORAL AND SOCIAL SCIENCES—Principal S. V. KOGIKAR, BSc(Econ) Lond.; SCIENCE—Professor N. R. KULKARNI, MSc

REGISTERAR—W. H. GOLAY, BA Bow, DipEngl DipJournalism Lond.

## TEACHING STAFF

[Teachers appointed by the Univ.]

Botany		Geology	
Mahabale, T. S., BA MSc PhD, FNI	Univ. Prof.	Agrote, R. P., MSc	Lectr.
Balakrishnan, M. S., MA MSc	Univ. Reader		
David, S. B., MSc PhD	Univ. Reader	German	
Javalkar, S. R., MSc	Lectr.	Jankowsky, K., PhD	Lectr.
Varhadpande, D. G., MSc	Lectr.	Kulkarni, B. B., MA	Lectr.
Patil, S. D., MSc			
Chemistry		Hindi	
Arnakar, H. J., PhD	Univ. Prof.	Bhagurath Mishra, MA PhD	Univ. Prof.
Narasimhan, BSc PhD	Univ. Reader	Joglekar, N. C., MA	Lectr.
Phansalkar, V. K., MSc PhD	Reader	Linguistics	
Mukhedkar, A. J., MSc PhD	Univ. Reader	Ghatge, A. M., MA PhD	Univ. Prof.
Joshi, P. N., MSc PhD	Lectr.	Kulkarni, E. D., MA PhD	Univ. Reader
Marathe, K. G., MSc PhD	Lectr.	Sen Neelmadhav, MA PhD	Univ. Reader
Kale, N. R., MSc	Lectr.	Purse, M. G., MA PhD	Lectr.
Tulpule, S. H., BSc(Agn) MSc PhD	Lectr.	Vale, R. N., MA PhD	Lectr.
Dungre, A. J., MSc	Lectr.		
English		Marathi	
Nagarajan, S., MA PhD		Tulpule, S. G., MA PhD Bow.	Univ. Prof.
Experimental Psychology		Mathematics	
Kochurkar, V. K., MA Bow., BA Camb	Univ. Reader	Huzurbazar, V. S., MA PhD Camb., FNI	Univ. Prof.
French		Madhav Rao, B. S., DSc, FNI	Prof.
Sohoni, Y. K., BA BSc	Lectr.	Venugopal Rao, V., MSc PhD	Univ. Reader
Geography		Bhaphar, V. P., MSc	Univ. Reader
Ganeshan, V. S., MA Madr. & Syr.	Univ. Reader	Adke, S. R., MSc	Lectr.
Kahrasgar, K. P., MA	Lectr.	Dharmadhikari, S. W., MSc (on leave)	Lectr.
Ramaswathi, K., BA MLitt LT	Lectr.	Deshpande, S. V., MSc	Lectr.
Gupte, S. C.	Lectr.	Rao, G., MSc PhD	Lectr.
		Vaidya, A. N., MSc	Lectr.
		Gopalakrishnan, N. S., MSc	Lectr.

**Physics**

Chiplonkar, M. W., DSc  
Laud, B. B., MSc PhD  
Mande, C., PhD DSc  
Talavale, R. G., MSc  
Kardkar, R. N., MSc  
Marwadi, P. R., MSc

Univ. Prof.  
Univ. Reader  
Reader  
(on leave) Lectr.  
Lectr.  
Lectr.

**Sanskrit**

Dandekar, R. N., MA Bow, PhD Bol.

Univ. Prof.

**Sociology**

Gulati, R. K., MA  
Mutaskar, R. K., MA  
Pundalik, V. G., MA

Lectr  
Lectr  
Lectr

**Zoology**

Mulharikar, Miss Leela, MSc PhD Educ.

Univ. Prof.

**Politics**

Garde, D. K., MA DLitt  
Sirsikar, V. M., MA  
Inamdar, N. R., MA PhD

Univ. Prof.  
Univ. Reader  
Lectr.

Tonpe, G. T., MSc PhD  
Ramade, D. R., MSc

Univ. Reader  
Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Dep. Registrar : R. S. Sardeshpanda, BA.  
Asst. Registrar : R. B. Maneikar, MA LLB.  
Librarian : K. S. Hingora, DipLibSc Advd.,  
MA. Controller of Exams : K. S. Venkatesh-  
nan Sec., Foreign Univ. Information and Em-  
ployment Bureau. A. B. Archo, BSc. Sec., Bd

of Extra-Mural Studies : A. V. Nalk, MA PhD  
Sec., Bd of Sports. V. N. Bhude, BSc Asst  
to the Registrar. G. M. Watve, MA Statistician.  
B. B. Kumbhakar, BA. Office Supts. : G. J.  
Abhyankar, BA; B. D. Potdar, BSc Manager,  
Univ. Press. S. R. Paranjape.

**CONSTITUENT DEGREE COLLEGES**

[PD, BA, etc., after the name of a coll. means that courses are provided there for Pre-Degree  
Arts, Science & Commerce, BA, etc., all exams. being held by the univ.]

POONA, *Armed Forces Medical College*, Poona 1  
(1962). Principal—Maj.-Gen. C. C. Kapale,  
DMRE Comd., MB, FRCP

POONA, *Ayurveda Mahavidyalaya*, Poona 2  
(tel. : 2246) (1933). BAm&S. Principal—A. D.  
Athavale 44 Teachers

POONA, *B. J. Medical College*, Poona 1 (tel.  
3189) (1946). MB BS, MS, MD. Dean—F. J.  
Mendonces, MB BS. 39 Teachers

POONA, *Brihan Mahavidyalaya College of Com-  
merce*, Poona 5 (tel. 3243) (1943). BCom,  
MCom. Principal—N. A. Mavalankar, MA LLB  
20 Teachers.

POONA, *College of Agriculture*, Poona 5 (tel.  
2561) (1958). BSc(Agril). Principal—S. Solo-  
man, DAG BSc MS Calc., MSc PhD III 52  
Teachers.

POONA, *College of Engineering*, Poona 5 (tel.  
2685) (1854). BE (civil, mech., electr., metall.  
and telecomm.), ME (civil, mech., electr.,  
metall. and telecomm.) Principal—G. V.  
Vartak, BE 62 Teachers

POONA, *Ferguson College*, Poona 4 (tel. : 3112)  
(1885). BA(gen. & spec.), BSc, MSc(res.), PhD  
Principal—S. V. Kogekar, BSc(Econ) Lond. 48  
Teachers.

POONA, *Laws College*, Poona 4 (tel. : 2110)  
(1924). LLB, LL.M. Principal—G. V. Pandit,  
MA LL.M. 7 Teachers.

POONA, *M. E. Society's College of Arts and  
Science*, Poona 4 (tel. : 2411) (1945). BA,  
BSc(gen.). Principal—N. S. Jamsadagni, MA  
14 Teachers

POONA, *Narasimjee Wacha College*, Poona 1  
(tel. : 2924) (1932). BA(gen. & spec.), BSc(gen.),  
TD Principal—P. R. Dumble, MA 31 Teachers.

POONA, *St. Mary's College for Girls*, Poona 1  
(1962). Principal—K. N. Vasvani, MA. 8  
Teachers

POONA, *Shri Shahu Maudar Mahavidyalaya*,  
Poona 2 (1960). PD. Principal—M. P. Min-  
gudkar, MA PhD.

POONA, *Sri Parashurambhau College*, Poona 2  
(tel. : 2958) (1916). BA(gen. & spec.), BSc(gen.),  
Principal—S. G. Hulyalkar, BA Bow, MA Lond.  
37 Teachers.

POONA, *Tilak College of Education*, Poona 2  
(tel. : 3603) (1941). BT, MEd, PhD (in educn.),  
Principal—B. V. Bapat, Assoc. Inst. of Educn.,  
Lond, BA MSc MEd. 16 Teachers

**AFFILIATED COLLEGES**

AMRITSAR, *Abnadsagar College* (1947).  
BA(gen. & spec.), BSc(gen.), MA. Principal—  
T. Barnabas, MSc. 20 Teachers.

AMRITSAR, *Prin. of Sarada College of Arts &  
Commerce* (1962). Principal—S. M. Kulkarni,  
MA. 8 Teachers.

ALINAG, *J S M. College* (1961) PD. Principal—R. T. Kulkarni, MSc. 12 Teachers.

AMALNER, *Pratap College* (1945). BA(gen. & spec.), BSc(gen.), MA, MSc(res. in bot.). Principal—V. C. Dixit, MSc. 18 Teachers.

ARJUNNAGAR, *Janta Mahavidyalaya* (1961) PD. Principal—V. G. Sahasrabudhe, MA. 9 Teachers.

BARAMATI, *Arts, Science & Commerce College* (1962) Principal—S. D. Vankudre, MA.

BARI, *Shri Shreeji Mahavidyalaya* (1960). PD. Principal—R. G. Shinde, MA. 12 Teachers.

CHALISGAON, *Arts, Science & Commerce College* (1961) PD. Principal—M. V. Phatak, MA. 10 Teachers.

DHULSA, *Arts & Science College* (1956) IA. Principal—M. Y. Vaidya, MA L.L.B. 24 Teachers.

DHULSA, *College of Agriculture* (1960) ISC (Agr.) Principal—G. K. Phadatar, B.A. MSc. 21 Teachers.

DHULSA, *College of Education* (1961) BED. Principal—R. M. Masathe, MA. MEd. 6 Teachers.

DHULSA, *Graduate Basic Training Centre* (1962) Principal—S. V. Kelkar, BSc. MEd. Ph.D.

FATAPUR, *Fatapur Arts & Science College* (1961) PD. Principal—R. V. Thakar, MSc. 9 Teachers.

GARODTI, *Acharya Jyotadekar Vyasra Bhanau* (College of Education) (1962). Principal—B. M. Save, MA. MEd.

ICHALKARANJ, *Arts, Science & Commerce College* (1962) Principal—D. N. Solanki, DSc. B.A. & N.Y.

JALGAON, *Mastjee Jaittha Arts & Science College* (1945). BA(gen. & spec.), BSc(gen.), MA. Principal—Y. S. Mahajan, BSc(Econ.) Lond. 23 Teachers.

KARAD, *College of Engineering* (1960) BE. Principal—G. V. Sapre, BE. 8 Teachers.

KARAD, *Sadguru Gadage Maharaj College* (1954) IA. Principal—A. D. Attar, MA. 7 Teachers.

KOLHAPUR, *College of Commerce* (1957) ICom. Principal—B. S. Bhanage, MA. 9 Teachers.

KOLHAPUR, *Gopal Krishna Gokhale College* (1956). IA. Principal—M. R. Desai, MEd. Leeds. BA L.L.B. 16 Teachers.

KOLHAPUR, *Rajwade College* (1880) BA(gen. & spec.), BSc(gen.), MA, MSc, Ph.D. Principal—B. R. Dhokney, MA. Ph.D. 45 Teachers.

KOLHAPUR, *Shahaji Law College* (1933) LL.B., LL.M. Principal—S. V. Apté, MA L.L.B. 7 Teachers.

KOLHAPUR, *Shree Maharam Tarakes Teachers' College* (1934) BT. Principal—Mrs. Chitra Naik, Ph.D. 9 Teachers.

MAHAD, *Dr. Babasaheb Ambedkar College* (1961) PD. Principal—R. B. Joshi, MA. 9 Teachers.

MIRAJ, *Miraj Medical College* (1962) Principal—B. B. Sethna, MB. MS. BSc. MSc(Med). 12 Teachers.

NASIK, *B. Y. K. Commerce College* (1957). Principal—M. S. Gosavi, MCom. LL.B. 13 Teachers.

NASIK, *Haveray Pragn Thackeray College* (1924) BA(gen. & spec.), BSc(gen.), MA, Ph.D. Principal—N. M. Acharya, MA. 22 Teachers.

PANDHARPUR, *Pandharpur College* (1960) PD. Principal—V. K. Todmal, MA. Ph.D. 11 Teachers.

PHALTAN, *Madhvi College* (1957) Principal—D. H. Oke, MA. LL.B. 14 Teachers.

RATNAGIRI, *R. P. Gogate College* (1945) BA (gen. & spec.), BSc(gen.), TD. Principal—V. K. Bavadekar, MSc. 19 Teachers.

SANGAMNER, *Sangamner College* (1961) PD. Principal—M. B. Kaundiny, MA. 8 Teachers.

SANGLI, *Chhatrapati Sambhaji College of Commerce* (1960) PD. Principal—D. A. Dabholkar, MA. 12 Teachers.

SANGLI, *College of Education* (1961) BED. Principal—G. S. Deshpande, MA. BT. 6 Teachers.

SANGLI, *New Engineering College* (1947) BE (civil) Principal—V. K. Kelkar, BE, MIB (India) 25 Teachers.

SANGLI, *Sangli College* (1960). PD. Principal—B. A. Chavale, MA. 10 Teachers.

SANGLI, *Willingdon College* (1919). BA(gen. & spec.), MA, BSc(gen.), MSc (in maths.) Principal—R. S. Mugli, MA. 20 Teachers.

SATARA, *Chhatrapati Shivaji College* (1947) IA, ISC, TD. Principal—P. G. Patil, MA. 11 Teachers.

SATARA, *College of Education* (1955). BT. Principal—A. B. Magdum, MA. MEd. 8 Teachers.

SAVANTWADI, *Shri Panchan Kheavaj Mahavidyalaya* (1961) PD. Principal—D. G. Kopardkar, MA. Ph.D. 9 Teachers.

SHEPPUR, *Shrikrishna Parvatibai Gavapat Mah. Arts & Commerce College* (1962) Principal—V. G. Joshi, MA. LL.B. 6 Teachers.

SHOLAPUR, *Dayanand College* (1940). BA (gen. & spec.), BSc, MA, Ph.D. Principal—Bhagvandas, MA. 36 Teachers.

SHOLAPUR, *Dayanand College of Commerce* (1952) BCom. Principal—T. B. Narasimhan, MA. 13 Teachers.

SHOLAPUR, *Dayanand College of Education* (1955). BT. Principal—K. S. Mandlik, MA. Ph.D. MEd. 15 Teachers.

SHOLAPUR, *Sangameshwar College* (1953). PD,



RA, BSc. Principal—K. Bhagishayn, MA. 13 Teachers.

SHOLAPUR, *Sholapur College* (1962) Principal—G K Patil, MA LLB 14 Teachers.

SHIRAMPUR, *Nardyanvao Borawake College* (1960) PD Principal—S K Unune, MA. 12 Teachers

SHIRAMPUR, *Rajchand Dakele Jain College of Commerce* (1962) Principal—Miss V A Dabholkar, MA PhD 5 Teachers

TASGAON, *Arts & Commerce College* (1962). Principal—B V Potdar, MA. 11 Teachers.

ULHASNAGAR, *Ulhasnagar Girls' College* (1961) PD. Principal—M. S. Advani. 7 Teachers

URAN-ISLAMPUR, *Kaivisar Bhausa Patil College* (1961) PD. Principal—S B Chavan, BSc (Econ) Lond. 5 Teachers

VENUGERLA, *Vengurla Arts & Commerce College* (1961) PD. Principal—B H Khardekar, BA Combs, LLB 5 Teachers

WAI, *Arts & Commerce College* (1962). Principal—R G. Kulkarni, MA PhD 6 Teachers

## CONSTITUENT RECOGNIZED INSTITUTIONS

(for postgraduate research)

POONA, *Bhandarkar Oriental Research Institute*, Poona 4 (tel. 2336) (1917) Prepares res. students for PhD in Sansk. Dir.—A. D. Pusalkar, MA PhD 2 Teachers

POONA, *Deccan College Postgraduate & Research Institute*, Poona 6 (tel. 2145) (1934). Prepares res. students for PhD in Sansk.

Linguistics, and Indian culture, Maratha hist., archaeol., social and anthropol. Dir.—S. M. Katre, MA PhD 9 Teachers

POONA, *Gokhale Institute of Politics & Economics*, Poona 4 (tel. 3729) (1939). Prepares res. students for PhD in econ. Dir.—D. R. Gadgil, MA MLitt Combs 4 Teachers.

## RECOGNIZED INSTITUTION

GARDOLI, *G.K. Institute of Rural Education* (1958). Prepares res. students for MEd and PhD in educn. (with sp. reference to rural problems)

Dir.—D V Chickermane, BA MEd PhD 4 Teachers

## GENERAL INFORMATION

In 1924, the Statelved Cttee. on University Reforms, which recommended the establishment of regional univs in the province of Bombay, pointed out the suitability of Poona as such a univ. centre. It was not until 1942, however, that the provincial govt. appointed a cttee to report on the form, constitution, jurisdiction and financial implications of a univ. for Maharashtra. Although the cttee submitted its report in the following year, difficulties created by the second world war prevented its implementation and it was not until 1948 that the Univ. of Poona was establd.; it occupied the old Government House, at Kirkee, which was provided by the Bombay govt. Though situated in Poona, the univ.'s activities are spread over the 12 districts inhabited by the Marathi-speaking people (i.e. Ahmednagar, Dhule, Jalgaon, Kolaba, Kolhapur, Nashik, Poona, Ratnagiri, Sangli, Satara, Sholapur, Thane). It is intended, as the report of the cttee. which framed its scheme observed, that the 'univ. will keep in view the special needs, interests and traditions of Maharashtra and its people without losing sight of its essential character as a university, i.e. a seat of universal learning which recognizes no frontiers except those of the human mind itself'.

The univ. is neither a purely affiliating nor a purely unitary and teaching univ. It combines the features of both these types. It aims at

creating for the Poona area a central teaching organization beyond the inter. stage, and the whole of the postgrad. teaching and res. work in the entire univ. area is conducted under its direct control. But up to the inter. stage in the Poona area and the grad. stage in outside places, instruction continues to be given by the constituent and affiliated colleges subject only to the general supervision of the univ. It is not contemplated that all the staff, equipment and bldgs. of such post-inter. colls in Poona will belong to the univ., which will, however, be able to draw freely on these resources. The univ.'s library, labs and full-time teaching staff are used mainly for postgrad. teaching and res. in selected subjects.

CONSTITUTION. Among the distinctive features of the constitution of the univ. is its provision for the widest representation of the various elements in the life of the region in the composition of the court, the general legislative and deliberative univ. body. Linking academic and non-academic sides is the executive council, which possesses complete control over the finances and routine working of the univ. Apart from its general direction of policy, the court has no control over the day-to-day business of the univ.

INCOME (1959-60). Recurring Rs 4,745,618 (incl. govt. grants, 24.8 per cent; exam. fees, 29

per cent., tuition fees, 31 per cent.) Non-recurring grants: Rs 1,700,000

FACULTIES AND DEANS See p 682

LIBRARIES Univ libr approx. 77,157 vols  
Libs of affiliated colls and institutions total of approx 624,000 vols

ADMISSION. The univ., which does not hold an entrance exam. of its own, admits students who have passed the matric or entrance exam. of any other statutory univ. in the state of Bombay. The univ. conducts the pre-degree exam. which precedes the 3-yr. integrated degree course leading to the BA, BCom and BSc exams. There is no discrimination on the ground of sex, race, creed, class or religious or political belief.

FIRST DEGREE. Yrs of study after S.S.C.: 4 yrs—BA (general), BA (spec.), BSc (general), BCom, BSc(Agric), 5 yrs—BSc (hons.), BE (civil, elect., mech., metall., telecomm.); 6½ yrs.—BAM&S (Ayurvedic med.); 6½ yrs.—MB BS.

Note.—The univ. has now adopted the 3-yr integrated degree course leading to the BA, BCom and BSc degrees

HIGHER DEGREE. 1 yr—REd, 2 yrs—MA, MSc, MSc(Agric), MCom, 3 yrs—MEd (only 1 yr is taken after REd), MD, MS, 6 yrs. (2 yrs after 1st degree), LLB; 4 yrs—LLM. Also PhD, 2 yrs after MA or MSc, DSc, 2 yrs after PhD; DLitt

HONORARY DEGREE DLitt

EXTERNAL DEGREE. BA(Ext), MA(Ext), MSc (Ext) (maths only), BCom(Ext), MCom(Ext), LLM(Ext). Gainfully employed persons, and married women, residing within the univ. area, are eligible to appear for these exams externally, i.e. without keeping terms at any of the affiliated colls. Duration of the 1st degree course is 6 yrs from the entrance exam. as compared with 4 yrs for regular internal students. A candidate appearing for the 3-yr integrated degree course externally can complete the course within 6 yrs incl. the yr of pre-degree exam. He qualifies for the master's degree after a further period of 3 yrs. For any of these 6 exams, students have to pay a registration fee of Rs 16 in the yr. previous to yr. of exam.

DIPLOMAS: 1 yr—TD, libr sci., French (lower), German (lower), 2 yrs.—French (higher), German (higher), music, oriental learning, 2 yrs postgrad—DPH, DCP (clin pathol.)

CERTIFICATES. 1 yr.—French, German.

POSTGRADUATE RESEARCH. While the univ. depts. (see above) are mainly meant for postgrad study and res., the three constituent recognized institutions (see above) also undertake postgrad. res. through their staff as well as through postgrad. students registered with the univ. and working in those institutions. The subjects of res. at the institutions are as follows: Bhandarkar Oriental Res. Inst.—anc. Sanskrit and Prakrit lit., Mahabharat epic and anc. Indian culture; Deccan Coll Postgrad. and Res. Inst.—Sanskrit, compilation of Sanskrit dictionary, social, anthropol., Arabic, Marathi hist. and anc. Indian hist. and culture, Gokhale Inst. of Politics and Economics—econ., pol. and stats.

FEES. Fees charged up to first graduation are about Rs 100 per term (extra lab fees for sci. students). Postgrad students—Rs 125 per term for arts and Rs 150 per term for sci. Besides these tuition fees, students have to pay about Rs. 25 to Rs 30 p.a. for gymnasium, library and other facilities.

ACADEMIC YEAR: 3 terms: June to mid-Oct., Nov. to mid-March (med. & Ayurvedic med., mid-April).

THE USUAL LANGUAGE OF INSTRUCTION is English, except in mod. Indian lang. classes, where the lang. concerned is used. Steps are being taken to replace English by Marathi.

EXTRA-MURAL WORK. The bd. of extra-mural studies was set up in 1950. Lectures on topics of general interest are frequently arranged under the bd.'s auspices, and profs. of the constituent and affiliated colls and other experts are invited to deliver lectures which are open to the general public.

RESIDENCE. The univ. maintains a hostel which has accomm. for 126 male postgrad. students. There is a sp. hostel for women students, accomm. 60. The affiliated colls have their own hostels, accommodating a total of 3700 men and women students.

UNIVERSITY PRESS. The univ. maintains a small press.

PUBLICATIONS. *Handbook* (6 Pts. Pts I, III and IV annually, Pt II quinquennially), *Annual Report*, N. C. Kulkarni memorial lecture series, annual vol.; Dr P. D. Gunde lecture series, 1 vol. every 5 yrs., Ashutkar Vedic lecture series, 1 vol. every 4 yrs.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	26,046	—
Women	4,899	—
Total	30,945	—

Distribution by Faculties: Agric, 285; arts, 11,025; Ayurveda, 340; comm., 4608; engin., 1404; law, 377; med., 804; sci., 10,830; soc. sci., 752 (In addition, there were 11,122 external students)

Included in the figures above are —

Pre-University students, 13,064.

Postgraduate students, 12,096.

New admissions, 13,064.

Students from other countries, 113. (Countries from which largest numbers came: E Africa, 58, Ceylon, 21)

DEGREES AWARDED (1961-62) PhD (all fees), 19, MA, 118; MA(Ext), 92; BA (gen. & sp.), 1172; BA (gen. & sp. ext.), 383; BA hon., 2; BA (under O 156 B, i.e. to those awarded BA after previously graduating BCom), 50, MCom, 11, MCom(Ext), 6; MEd, 51; BCom, 281; BCom(Ext), 38; BEd, 218, MSc (maths) (Ext), 2, BSc hon., 138, BSc gen., 621, LL.M., 2,

LLB, 127, MD, 3; MS, 1; MBBS, 71, MSc(Eng), 13; ME, 3, BE (civil), 153, BE (mech.), 74, BE (electr.), 57; BE (mech. & elects.), 1; BE (metall.), 14, BE (telecommn.), 19, MSc(Agr), 14, BSc(Agr), 51, BAm&S, 41

DIPLOMAS AWARDED (1961-62) DipLib, 24, DPH, 7; TD, 123; music, 6, higher dipl. in French & German, 2, lower dipl. in French & German, 14, DCP, 4.

CERTIFICATES AWARDED (1961-62) French & German, 100

# UNIVERSITY OF RAJASTHAN\*

Founded 1947

Postal Address: Gandhinagar, Jaipur, Rajasthan, India

Cables and Telegrams: University, Jaipur

Telephone: Jaipur 4135

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (ex officio)

CHANCELLOR—THE GOVERNOR OF RAJASTHAN (ex officio)

VICE-CHANCELLOR—M. S. MEHTA, MA LLB PhD

REGISTRAR—K. L. VARMA, MA

DEPUTY REGISTRAR (GENERAL AND EXAMINATIONS)—C. L. SINGHIAL, BCom

DEPUTY REGISTRAR (DEVELOPMENT AND ADMINISTRATION)—K. P. GOVIL, BCom LLB

LIBRARIAN—S. BANHIREDDEN, MA DipLibSc

## UNIVERSITY TEACHING STAFF

### Botany

Sulbaraman, C. V., MA PhD DSc  
Ting, B., MSc PhD  
Narayana, H. S., MSc PhD  
Singh, Dalbir, MSc PhD

Prof.  
Reader  
Lectr.  
Lectr.

### Geology

Rode, K. P., MSc PhD Zdr. Prof.  
Agrawal, S. K., MSc PhD Paris Reader  
Gupta, S. C., MSc Chemical Analyst  
Chandra, S., MSc Chemical Analyst  
Shukla, R. T., MSc Temp. Lectr.  
Pandya, M. K., MSc Lectr.  
Chowdhary, M. W., MSc PhD X-Ray Analyst

### Chemistry

Mehrotra, R. C., MSc PhD  
Gaur, J. N., MSc PhD  
Sogami, N. C., MSc PhD  
Deorha, D. S., MSc PhD  
Kulkreshna, N. K., MSc PhD

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.

### German

Suga, Mrs. Ruth, DPhil Lectr.

### Economics and Public Administration

Mathai, M. V., MA BCom *Alld.*,  
MPA *Hon.*  
Chelliah, R. J., MA PhD  
Joshi, J. M., MA PhD  
Bhalla, G. S., MA (on leave)  
Naidu, D. D., MA  
Varadachari, K. V., MA MPA *Syr.*  
(on leave)  
Sinha, V. M., MA PhD  
Vaidh, M. C., MA LLB  
Mishra, Miss J. K., MA

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Hindi

Gupta, M. P., MA LLB DLit Prof.  
Sharma, S. S., MA PhD Reader  
Maheshwari, M. L., MA LLB DPhil Lectr.  
Savani, L. P., MA PhD Lectr.

### History

Raghuvanshi, V. P. S., MA DPhil Reader  
Asopa, J. N., MA LLB Lectr.  
Choudhary, P. S., MA PhD Lectr.

### Law

Sharma, G. S., JSD Yale, MA LLM Principal, Univ. Law Coll.  
Varma, R. N., MA LLM PhD Reader  
Savani, I. C., JSD *Ithaca*, MA LLM Lectr.  
Sinha, B. S., BA LLB Lectr.  
Satgur Charan, BA LLB Lectr.  
Sharma, N. R., BA LLM Lectr.  
Dhyani, S. N., BA LLM Lectr.

### English

Stock, Amy G., BA Oxon.  
Bee, D. K., MA Calc & Lond.  
Jain, M. M., MA  
Chauhan, P. S., MA LLB

Prof.  
Reader  
Lectr.  
Lectr.

### French

Roy, Mrs. J. M.

Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Library Science**

Bashiruddin, S., MA DipLibSc  
 Srivastava, A. P., MA MLabSc Delhi  
 Sharma, H. D., MA(LibSc) *Mech*, MA  
 Srivastava, S. N., MS(LibSc) *Alimata*  
 Shipstone, G. L., MA DipLab  
 Sohla, S. M., MA DipLabSc Delhi

Hd  
 Reader  
 Lectr  
 Lectr  
 Lectr

**Political Science**

Varma, S. P., MA PhD DLitt  
 Iqbal Narain, MA PhD  
 Bhambhani, C. P., MA PhD  
 Ramana Murthy, V. V., MA MLitt

Prof.  
 Reader  
 Lectr  
 Lectr

**Public Administration**, see Econ and Pub.  
 Admin.

**Mathematics**, see also *Stats*

Patra, G. C., MSc PhD  
 Sharma, A., MA PhD  
 Gupta, M. C., MSc PhD

Reader  
 Reader  
 Lectr.

**Philosophy**

Raju, P. T., MA PhD  
 Dutt, V. H., MA PhD  
 Sharma, C. M., MA LLB  
 Ghosh, A. M., MA

(on leave) Prof  
 Lectr  
 Lectr  
 Lectr

**Sanskrit**

Bhargava, P. C., MA PhD  
 Gupta, S. K., MA PhD  
 Jasthy, R. S., MA  
 Shukla, M. S., MA

Reader  
 Reader  
 Lectr  
 Lectr

**Sociology**

Unnatham, T. K. N., MA PhD  
 Yogendra Singh, MA PhD  
 Indira Deva, MA PhD

Reader  
 Lectr  
 Lectr

**Physical Education**

Mukerji, J., BA

Du.

**Statistics**, see also *Maths*.

Tilakwal, B. D., MSc PhD  
 Mardia, K. L., MSc  
 Sharma, K. L., MA MSc

Reader  
 Lectr.  
 Lectr.

**Physics**

Soodwala, M. F., MSc  
 Saxena, S. C., DPhil  
 Khundelwal, D. P., PhD  
 Bhambhani, R. C., MSc PhD  
 Nigam, A. N., MSc

Prof.  
 Reader  
 Reader  
 Lectr.  
 Lectr

**Zoology**

Ramaswami, L. S., DSc, FNI  
 Srivastava, P. N., MSc DPhil, FLS  
 Kapoor, A. S., MSc DPhil

Prof  
 Lectr  
 Lectr

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar (General) : L. P. Shrivastava  
 Asst. Registrar (Exams & Secrecy) : V. D. Qamra,

BA. Asst. Registrar (Accounts & Finance) : R. C.  
 Bhargava, BA.

**COLLEGES MANAGED AND MAINTAINED BY  
THE UNIVERSITY**

JAIPUR, Commerce College. Pre-Univ. (comm.),  
 BCom, MCom, PhD. Principal—B. D. Bha-  
 gava, MA BCom 34 other Teachers.

JAIPUR, Maharaja's College. Pre-Univ. (arts,

sci.), BA, BSc. Principal—R. S. Kapur, MA.  
 101 other Teachers

JAIPUR, Maharan's College. Pre-Univ. (arts,  
 sci.), BA, BSc, MA. Principal—Mrs. Savitri  
 Bhargava, MA 49 other Teachers

**AFFILIATED INSTITUTIONS**

[Pre-Univ. after the name of a coll. means that Pre-Univ. courses are provided there, BA, BSc, etc., that courses are provided there for BA, BSc, etc.]

AJMER, Dayanand College. Pre-Univ. (arts, comm., sci.), BA, BCom, MA, MCom, BSc, BSc(Ag) Principal—D. Vable, MA LLB. 32 other Teachers.

AJMER, Govt College. Pre-Univ. (arts, sci.), BA, BSc, BCom, MA, MSc, MCom, LLB, PhD. Principal—B. Sen, MA. 83 other Teachers.

AJMER, Govt Teachers' College. BEd. Prin-

cipal—R. K. Kaul, MA BSc BT. 23 other Teachers.

AJMER, Saurini Girls' College. Pre-Univ. (arts, sci.), BA. Principal—Miss Mukta Bhatji, MA. 15 other Teachers

AJMER, Sophia Girls' College. BA. Principal—St. Jovita, MA BT. 7 other Teachers.

ALWAR, *Raj Rishi College* Pre-Univ (arts, comm., sci.), BA, BSc, BCom Principal—R. L. Sawal, MA 59 other Teachers

BANARSHALI, *Banwarshi Vidyapeeth* Pre-Univ (arts, BA, MA, Principal—S. B. Banarjee, MA, 18 other Teachers.

BANSWARA, *Gout College* Pre-Univ (arts, sci.), BA, BSc Principal—J. K. Kaushik, MSc 12 other Teachers.

BLAWAR, *S.D. Gout College* Pre-Univ (arts, comm., sci.), BA, BSc, BCom, MA, MCom Principal—F. Singh, MA D.Litt. 35 other Teachers.

BHARATPUR, *M.S.Y. College* Pre-Univ (arts, comm., sci.), BA, BSc, BCom Principal—S. Swaroop, MA MSc 41 other Teachers

BHILWARA, *Gout College* Pre-Univ (arts, comm.), BA, BCom Principal—R. S. Gupta, MA 16 other Teachers

BIKANER, *B.Y.S.R. Jain College* Pre-Univ (arts, comm., sci.), BA, BCom Principal—J. C. Ghosh, MA 25 other Teachers

BIKANER, *Durgas College* Pre-Univ (arts, sci.), BA, BSc, MA, MSc, LLB Principal—P. C. Jain, MA 47 other Teachers

BIKANER, *Maharaj Sudarshan College for Women* Pre-Univ (arts, sci.), BA, BSc Principal—Mrs S. Lata Agarwal, MA PhD 20 other Teachers

BIKANER, *Medical College* MB BS Pts. I & II, MSc(Med) (anat., physiol.) Principal—S. C. Mehta, FRCS 11 other Teachers

BIKANER, *Rajasthan College of Veterinary Science & Animal Husbandry* BVSc&AH Principal—Mohan Singh, MSc PhD, 30 other Teachers

BIKANER, *Shri Jain College* Pre-Univ. (comm.), BCom. Principal—G. P. Sayal, MCom LLB 7 other Teachers

BIKANER, *Teachers' Training College* BED Principal—B. G. Tewari, MA BT. 16 other Teachers

BUNDT, *Gout College* Pre-Univ (arts, comm., sci.), BA, BCom, BSc Principal—M. L. Garg, MSc. 16 other Teachers.

CHUDAWA, *Chitawa College* Pre-Univ. (arts, comm., sci.), BA, BCom Principal—A. B. Saxena, MA 17 other Teachers.

CHUD, *Lahia College* Pre-Univ (arts, comm., sci.), BA, BCom, BSc Principal—G. S. Jain, MA LLB 31 other Teachers

DAVERA, *Gout College* Pre-Univ (arts, comm.), BA, BCom Principal—K. L. Gupta, MA 10 other Teachers

DIDHPUR, *Gout College* Pre-Univ. (arts, comm.), BA, BCom Principal—G. R. Sharma, MA

DIDWANA, *Bangw College* Pre-Univ (arts, comm., sci.), BA, BCom, BSc Principal—M. L. Gupta, MSc PhD. 18 other Teachers

DUNGARPUR, *Gout College* Pre-Univ (arts), BA, Principal—S. N. Dube, MA

FALNA, *S.P.U. College* Pre-Univ (arts, comm.), BA, BCom Principal—S. L. Sharma, MA 14 other Teachers

FATEHPUR, *Seth G.R. Chamarla College* Pre-Univ (comm., sci.), BCom, BSc Principal—M. G. Darda, MA BT 11 other Teachers.

JAIPUR, *Agarwal College* Pre-Univ (arts, comm., sci.), BA, BCom Offg Principal—L. P. Vash, MA 13 other Teachers

JAIPUR, *Rajasthan College* Pre-Univ. (arts, sci.), BA, BSc Principal—A. Hughes, MA 108 other Teachers

JAIPUR, *Sanskrit Mahavishw Medical College* MB BS, MD, MS, MSc(Med) Principal—R. M. Kashiwal, MD, MRCP 108 other Teachers.

JAIPUR, *S.S.G. Pareek College* Pre-Univ (arts, comm.), BA, BCom Principal—G. L. Parohit, MA BT. 9 other Teachers

JAIPUR, *S.S. Jain Subodh College* Pre-Univ (sci.), BSc Offg Principal—B. C. Vashya, MA BT 5 other Teachers.

JHALAWAR, *Gout College* Pre-Univ (arts, sci.), BA, BSc Principal—S. P. Tejpal, MA LLB 16 other Teachers

JHUNJHUNU, *Seth Motilal College* Pre-Univ (arts, comm.), BA, BCom Principal—N. L. Gupta, MA BT 16 other Teachers

JODHPUR, *S.K.N. Gout College of Agriculture* BSc(Ag). Principal—N. Pissani, MSc PhD 22 other Teachers

JODHPUR, *Jamnat College* Pre-Univ (sci.), BSc, MSc, LLB Principal—S. P. Kaushik, MSc PhD. 69 other Teachers

JODHPUR, *Mahesh Teachers' Training College* BED Principal—

JODHPUR, *M.B.M. Engineering College* BE (civil, electr., mech., mining engin.) Principal—V. G. Gatte, MSc(Eng) 74 other Teachers

JODHPUR, *Rameshwar Girls' College* Pre-Univ. (arts, sci.), BA, BSc, Principal—Miss Rama Padmani, MA MSc Lond. 18 other Teachers

JODHPUR, *Shri Maharaj Kanwar College* Pre-Univ (arts, comm.), BA, BCom, MA, MCom Principal—M. P. Mathur, MA PhD 62 other Teachers.

KALAGERI, *Seth Ramchandra Lal Sakaria College* Pre-Univ. (arts, comm., sci.), BA, BCom, BSc. Principal—L. R. Shah, MCom MA 11 other Teachers.

KAROLI, *Gout College* Pre-Univ. (arts), BA, Principal—K. L. Bhatnagar, MA.

KISHANGARH, *Gout College* Pre-Univ. (arts, comm., sci.), BA, BCom, BSc Principal—R. P. Bhargava, MA BCom 19 other Teachers.

KOTA, *Gout College* Pre-Univ (arts, comm., sci.), BA, BSc, BCom, MA, MSc, LLB Offg Principal—R. P. Singh, MA D.Litt. 69 other Teachers

KOTA, *Maharaj Girls' College* Pre-Univ. (arts, sci.), BA, BSc, Principal—Miss R. P. Shastri, MA PhD. 13 other Teachers

MUDUNIGARRI, *Sharda Sadan College* Pre-  
Univ. (arts, comm.), BA, BCom. Principal—  
P. C. Sahai, MA BT. 9 other Teachers.

NAMALGARRI, *S G B Pooni College* Pre-  
Univ. (arts, comm., sci.), BA, BSc, BCom, MCom.  
Principal—C B Gupta, MA MCom. 26 other  
Teachers.

PAU, *Govt. College*. Pre-*Univ.* (arts, comm.),  
BA, BCom. Principal—M M Singh, MSc.

PLANI, *Birla Arts College*. Pre-*Univ.* (arts),  
BA, MA. Principal—K L Sahai, MA PhD.  
20 other Teachers.

PLANI, *Birla College of Science & Commerce*.  
Pre-*Univ.* (comm., sci.), BSc, BCom, MSc,  
MCom, IPharm, BPharm, MPharm. Principal—  
S. M. Mitra, DSc Dacca. 65 other Teachers.

PLANI, *Birla Engineering College*. BE (civil,  
electr., mech., telecomm.), ME/MSc(Electro-  
nic). Principal—V. Lakshminarayana, BE. 68  
other Teachers.

RAMGARH, *Seth R.N. Rola College*. Pre-*Univ.*  
(arts, comm.), BA, BCom. Principal—M. M.  
Gangwani, MA.

SARDARSHAH, *Banc Teachers' Training College*.  
BED (basic educn.), MED. Principal—M. C.  
Singhal, MA MEd PhD. 18 other Teachers.

SARDARSHAH, *Govt. College*. Pre-*Univ.* (arts,  
comm.), BA, BCom. Principal—B V. Ratnam,  
MA. 8 other Teachers.

SEKAR, *S.K. College*. Pre-*Univ.* (arts, sci.),  
BA, BSc. Principal—R. S. Tyapathi, MA. 19  
other Teachers.

SIRONI, *Govt. College*. Pre-*Univ.* (arts, comm.,  
sci.), BA, BCom, BSc. Principal—S. S. Dubé,  
MSc. 18 other Teachers.

SRI GANGANAGAR, *Govt. College*. Pre-*Univ.*  
(arts, sci.), BA, BSc. Principal—P. Sanha, MSc.  
22 other Teachers.

SRI GANGANAGAR, *Govt. Girls' College*. Pre-  
Univ. (arts), BA. Principal—Mrs B. Kohli, MA.  
10 other Teachers.

SRI GANGANAGAR, *Seth G.L. Bhatnagar S.D. Col-  
lege* Pre-*Univ.* (comm.), BCom. Principal—  
T. C. Sharma, MA BCom. 7 other Teachers.

SRI GANGANAGAR, *SGN Khalsa College*.  
Pre-*Univ.* (sci.), BSc. Principal—S. S. Singh,  
MSc. 16 other Teachers.

TONK, *Govt. College*. Pre-*Univ.* (arts, comm.),  
BA, BCom. Principal—S. S. Soodiya, MA. 12  
other Teachers.

UDAIPUR, *B.N. College*. Pre-*Univ.* (arts, sci.),  
BA, BSc. Principal—S. S. Chaturvedi, MA. 12  
other Teachers.

UDAIPUR, *Govt. Girls' College*. Pre-*Univ.* (arts,  
sci.), BA, BSc. Principal—Mrs. Indira Shekhar,  
MA BT. 16 other Teachers.

UDAIPUR, *Maharaja Bhupal College*. Pre-  
Univ. (arts, comm., sci.), BA, BSc, BCom, MA,  
MSc, MCom, LLB. Principal—V. V. John, BA  
Oxon. 75 other Teachers.

UDAIPUR, *Rajasthan College of Agriculture*.  
BSc(Ag), MSc(Ag). Principal—A. Rathote, MSc  
PhD. 37 other Teachers.

UDAIPUR, *Rajasthan Mahila Vidyalaya*. BA,  
BSc (hons sci.). Offg. Principal—P. B. Menon,  
MA BSc. 18 other Teachers.

UDAIPUR, *School of Social Work* MA (Social  
Work). Principal—P. T. Thomas, PhD.

UDAIPUR, *Shriyugesh College* (Night Degree  
College), Rajasthan Vidyapeeth. Pre-*Univ.* (arts),  
BA. Principal—K. Jaisri, MA. 10 other  
Teachers.

UDAIPUR, *Vidyut Bhawan G.R. Teachers'*  
College. BED, MED. Offg. Principal—P. L.  
Sharma, MSc BT. 16 other Teachers.

## GENERAL INFORMATION

Although the idea of a univ. at Jaipur can be  
traced to the 1920s, it was not till Jan. 8, 1947,  
that the act for a federal univ. for Rajasthan was  
promulgated. The univ.'s jurisdiction extends  
over Rajasthan, the ring-shaped region com-  
prising the whole of Rajasthan incl. Ajmer-  
Merwara. It is a teaching and affiliating univ.

The univ. now controls univ. educn. only.  
With the estab. of the bd. of secondary educn. in  
the state of Rajasthan with effect from July 1957,  
the control of high sch. and inter. educn. has  
been transferred to that bd.

**CONSTITUTION.** The main authorities are  
senate, syndicate, academic council, facs., bds. of  
studies and bd. of suspension, etc. Senate is the  
senior body. No statute of the univ. can be  
operative unless sanctioned by senate, and ordi-  
nances are subject to its approval. The syndicate  
is the executive body which controls day-to-day  
admin. Bds. of studies report to the facs., facs.  
to the academic council and academic council to

the syndicate. All other bodies report direct to  
syndicate.

**INCOME** (1960-61) Rs. 5,124,678 (exam. fees,  
Rs. 1,034,163; other fees, Rs. 97,032; publns.,  
Rs. 14,267; state grant, Rs. 424,000; tuition and  
other fees (univ. teaching depts.), Rs. 104,741;  
govt. of India & U.G.C. grants, Rs. 2,450,486;  
misc., Rs. 999,089).

**FACULTIES AND DEANS.** Arts. Principal B. Sen,  
comm., Principal B. D. Bhargava; educn., Prin-  
cipal P. L. Shrivastava, agrib., Principal V. Lak-  
shminarayana; law, Principal G. S. Sharma;  
med., *pharm.* & *vet. sci.*, Principal S. C. Mehta;  
sci., Prof. L. S. Ramaswami (soil).

**UNIVERSITY PRECINCT.** The univ. with its  
depts. and library is housed in its own beautifully  
constructed bldgs. in Gandhinagar, Jaipur; the  
depts. of bot. and zool. are located at Jodhpur and  
the dept. of geol. at Udaipur.

**LIBRARY.** 63,621 vols.

**ADMISSION.** Min. requirement for entry to inter, phar. and pre-univ. is high sch. or exam declared equivalent. For requirements for entry to degree courses, see below.

**FIRST DEGREE.** BA, 2 yrs after inter or 3 yrs after pre-univ. or equivalent; BSc, 2 yrs after ISC or 3 yrs. after pre-univ. or equivalent; BSc(Ag), 2 yrs after ISC(Ag) or equivalent; BCom, 2 yrs. after ICom or equivalent or 3 yrs. after pre-univ. or equivalent; BPharm, 3 yrs. with 90 days' practical trng. after IPhar. or ISC (with phys., chem., math.) or equivalent; BE (civil, elect., mech., mining, telecomm.), 4 yrs., with 6 mos.' practical trng. after ISC, or 5 yrs. after pre-univ. or equivalent (with phys., chem., math.); BVSc&AH, 4 yrs after ISC (biol.); MB BS, 5½ yrs, incl 6 mos.' internship, after ISC (with phys., chem., biol.). No hon. degrees are awarded.

**Note.**—The univ. introduced 3-yr. degree and pre-univ. courses in the fcs. of arts, com. & sci. in 1958 and 1959 respectively.

**HONOR. DEGREE.** BEd, BLittSc, 1 yr after 1st degree; LLB, 2 yrs after bachelor's degree. Courses of instructn for MA, MOL, MA(Social Work), 2 yrs after bachelor's degree; MSc, MCom, ME and MSc(Tech-Electronics), MSc (Ag), MPharm, MD, MS, LL.M., 2 yrs. after corresp. bachelor's degree; MEd, 1 yr. after BEd; MSc(Med), 2 yrs after MB BS. Facilities for res. in univ. depts. of econ., geol., hist., philos. PhD, 2 yrs' res. (and thesis) after postgrad. degree; DLitt, DSc, 2 yrs. after PhD; LLD, 2 yrs. after LL.M. The DLitt, DSc and LLD may also be conferred as HONORARY DEGREES. All degrees are open to grads of other univs.

**STUDY LEAVE.** which is available to univ. teachers who have been on the staff for 5 or more yrs., is granted (for 1 yr. or, exceptionally, 2 yrs.) to an individual upon only. An undertaking to serve the univ. for at least 5 yrs. on return is required. If the teacher has a scholarship or other financial assistance he receives a monthly allowance of not more than half his salary; if he has no schol., or other financial assistance he receives his full salary plus a monthly allowance of not more than a quarter of his salary.

**Fees.** Tuition fees, MA or LLB, Rs 200 p.a.; LL.M., Rs 240 p.a.; res., Rs. 250 p.a. Registra-

tion fee for res., Rs. 50. Women are charged half fee. Candidates belonging to scheduled caste are exempted from payment of tuition fee.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.): July 7 to Sept. 30; Oct. 15 to Dec. 22; Jan. 2 to May 6.

**USUAL LANGUAGES OF INSTRUCTION.** Hindi and English.

**'Open' POSTGRADUATE AWARDS.** Univ awards 6 scholrs, value Rs. 150 p.m., tenable for a yrs., for res. in various subjects. Res. scholrs., value Rs. 150 p.m., are also awarded in the univ. teaching depts. 2 each in bot., chem., geol., hist., maths., philos., phys., zool. and 1 in econ.

**PRIVATE CANDIDATES** may appear at univ. exams without attending lectures in a recog. instn of the univ. Such candidates are women, teachers or librarians in recog. instns, or inspecting officers of the dept. of educn.

**EXTERNAL STUDENTS.** Provision exists for candidates 'in service' to undertake higher educn. Such candidates enrol to attend evng. classes, which certain degree colls. are authorized to run. They are thus intermediate in status between 'private' candidates and full-time scholars. This facility has enabled those who are gainfully employed and cannot for valid reasons join a coll. as regular students to appear at the univ. exams.

**EXTRA-MURAL WORK AND DELEGATIONS.** Extension lectures by members of the univ. and other scholars are delivered at various centres, and are publi. both in Engl. and Hindi.

**NATIONAL CADRE CORPS TRAINING.** Five bns., at Jaipur, Amer, Jodhpur, Udaipur and Bikaner, 6 indep. cos. at Amer, Bharatpur, Kota, Churu, Pilani and Sri Ganganagar; 3 units: 1 air squadron at Jodhpur & Jaipur, 1 naval unit at Udaipur; 4 tech. units, medical co. at Jaipur, artillery battery N.C.C. at Pilani, engin. platoon N.C.C. at Pilani and Jodhpur. The univ. contributes Rs. 11,662 annually for amenities of N.C.C. cadets.

**PUBLICATIONS.** Handbook (Pt I, univ. authorities, pt 7, Pt II, statutes & ordinances, Rs. 3), *Univ. Studies and Extension Lectures*, text-books and fac. syllabuses, List of institutions.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	26,286	311
Women	4,338	3
Total	30,624	314

**Distribution by Faculties.** Arts, 12,450; comm., 5316; educn., 610; agn., 1606; jr. dipl. course, 92; law, 785; med. & phar., 1189; sci., 8627; vet. sci., 245.

Included in the figures above are —

Postgraduate students, 2624  
New admissions, 19,754  
Students from other countries, 16.

**DEGREES AWARDED (1960-61).** MA, 824; MOL, 2; BA, 2059; MSc, 203; BSc, 450; BSc(Ag), 73; MCom, 209; BCom, 765; MEd, 22; BEd, 450; LL.B., 245; BE, 145; MB BS, 75; MS, 11; ME/MSc(Tech-Electronics), 7; MD, 7; MSc(Med), 2; BPharm, 21; BVSc&AH, 63; PhD (arts), 5; PhD (sci.), 11.



# UNIVERSITY OF ROORKEE\*

Founded in 1847 as Thomson College; inaugurated  
as a University in 1949

Postal Address: Roorkee, Uttar Pradesh, India

Telegrams: University, Roorkee

Telephone: Roorkee 5

CHANCELLOR—Rajyapal Sri BISHWANATH DAS

VICE-CHANCELLOR—G. PANDE, CE, MIE(India)

PRO-VICE-CHANCELLOR—K. N. KATIPALIA, BA CE

REGISTRAR—S. S. SHARMA, MA

DEAN OF STUDENTS—S. R. SINGH, BScEngin Brst

## TEACHING STAFF

Architecture		Vaswani, N. K., BSc(Eng) Bom, MSc(CE)	
Mondal, G. M., MArch MS III.	Assoc Prof.	Arya, A. S., CE ME	Reader
Datta, K. L., MPA III.	Reader	Singh, V., BSc CE	Reader
Bhatia, K., BArch MTech Kharagpur	Reader	Chawal, H. L., BSc(Min) Bau,	Reader
Choudhury, I. S.	Reader	MSc(Eng) Lond	Reader
Mishra, D. D., MRP Coru, BArch	Reader	Chandra, M., MS Calif, BSc CE	Reader
Sahu, R. K., MArch III., BArch	Reader	Misra, H. C., BSc Affil, BE(Civil)	
Bhambhani, B. M.	Lectr.	PostgradDipl	Lectr.
Vijay Kumar, MArch III., BArch Delhi	Lectr.	Mirajgokul, A. G., BE(Civil) ME DPhil	Lectr.
Mehta, M. L., BSc Affil, BArch	Lectr.	Gupta, S. P., BE(Civil) PostgradDipl	
Rastogi, R. P., BArch	Lectr.	DPhil	Lectr.
Tayal, N. K., BArch	Lectr.	Thak, R., BSc Agri, BE(Civil)	Lectr.
Bahl, R. K., BSc BArch	Lectr.	Agarwal, K. B., BE(Civil) DiplEng	Lectr.
De, R. R., BArch	Lectr.	Rao, P. V., MTech Kharagpur, BE(Civil)	Lectr.
Chemistry		Khatnagar, S. R., BE(Civil) Bom,	
Agarwal, B. R., DIC, MSc PhD Lond	Reader-in-Charge	PostgradDipl	Lectr.
Goel, R. G., MSc	Lectr.	Chandra Sekaran, A. R., MTech Kharagpur,	
Mukherjee, S. K., MSc PhD Luck	Lectr.	BSc(Eng)	Lectr.
Mishra, S. B., MSc	Lectr.	Varma, R. S., BE(Civil)	Lectr.
Tripathi, K. K., MSc	Lectr.	Khanra, S. K., BE(Civil) PostgradDipl	Lectr.
Shelkar, Chandra, MSc	Lectr.	Kanchi, M. B., BE(Civil) PostgradDipl	Lectr.
Engineering, Civil		Chandra, S., DiplHyd TH Delft, BE(Civil)	
Chaturvedi, R. S., CE, MIE(India)	Prof	ME	Lectr.
Krishna, J., PhD Lond, BSc CE		Ajmani, J. L., MS Coru, BE(Civil)	Lectr.
(Earthquake Engin.) Prof., Dir.		Malhotra, R. C., BE(Civil)	Lectr.
Balrati, H. E.	Visiting Prof.	Swarup, B. R., BSc(Eng)	Lectr.
Singh, S. R., BScEngin Brst	Assoc Prof	Garda, R. J., BSc BE MS PhD	Lectr.
Jain, O. P., PhD Lond, BSc CE	Assoc Prof	Agarwal, S. R., BE(Civil)	Lectr.
Singh, B., PhD Lond, CE	Reader	Prabhash, A., BE(Civil)	Lectr.
Narain, J., BSc Lectr., MSc(CE) Padua,		Rajna, G., BE(Civil)	Lectr.
BE	(on leave) Reader	Jain, V. C., BE(Civil) PostgradDipl	Lectr.
Shahani, P. R., BE	Reader	Toshniwal, C. L., BE(Civil) PostgradDipl	Lectr.
Chitale, H. D., BE(Civil)	Reader	Nayak, O. C., BE PostgradDipl	Lectr.
		Morjani, S. S. H., BTech Kharagpur	Lectr.
		Halarnal Rao, MSc	Lectr.
		Agrahot, V. K., BSc BE(Civil) ME	Lectr.
		Chandra, S., BSc BE(Civil) ME	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Bhatnagar, S. S., BSc BE (Civil)  
a Sr Instrs

Lectr

Singh, K. K., PhD *Kharagpur*, MSc  
Gaur, V. R., DIC, MSc PhD *Lowd*  
Srivastava, L. S., BSc MTech *Kharagpur*  
Dave, V. K. S., MSc PhD  
Chaturvedi, R. S., MSc  
Bahadur, S., MSc

Reader  
Reader  
Lectr  
Lectr  
Lectr

**Engineering, Electrical**

Ghosh, C. S., MSc Calc, SM M I T  
Sakand, C. S.  
Jethi, J. L., BSc (Eng) *Baw*  
Barwas, N. N., PhD *Kharagpur*, BSc  
Rav, L. M., MSc PhD  
Rao, T. S. M., PhD *Lowd*, MSc (Electr)  
Indresana, P. V., PhD *Lowd*, BSc  
Kohli, D. R., MS *Cove*, BE (Electr)  
Kulshreshtha, O. P., BSc BE (Electr)

Prof  
Visiting Prof

**Mathematics**

Prasad, C., MSc DPhil  
Mittal, K. V., MSc  
Varshney, O. P., MA  
Krahn, B., MSc  
Kumar, V., MSc  
Pande, N. N., MSc  
Bhatnagar, N. S., MSc  
Agarwal, S. K., MSc  
Pandey, S. N., MSc  
Srivastava, H. M., MSc *Allid*  
Gurn, H. S., MSc

Reader-in-Charge  
Reader  
Reader  
Lectr  
Lectr  
Lectr  
Lectr  
Lectr  
Lectr  
Lectr

Ram, Y. B. L., BA *Lowd*.

Goyal, R. C., MSc BE (Electr)

Lal, M., BSc

Mathur, N. C., BA

Rampal, V. V., BSc

Dav, P. N., MSc

Aroon, R. K., BSc

Sarkar, B., BTech *Kharagpur*

Sood, R. P., BSc ME

Singh, S. K.

(on leave) Lectr.  
Lectr.  
(on leave) Lectr.  
Lectr.  
(on leave) Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Engineering, Mechanical**

Kamalan, M. V., BSc (Eng) *Ban*

Alford, H. H.

Shankar Lal, BSc (Eng) *Ban*.

MSc (Eng) *Lowd*, PhD

Prasad, J., BSc (Eng) *Baw*

Kapoor, P. N., Dipl/Masching

E T H Zurich, BA

Senana, M. N., BSc (Metall) *Ban*.

MSc *Wur*

Gupta, C. P., MSc *Agra*, BE (Mech)

PostgradDipl (on leave) Reader

Prakash, R., BSc *Agra*, BE (Mech)

PostgradDipl (on leave) Reader

Srivastava, J. P., PhD *Mans*, BSc

BE (Mech) (on leave) Reader

Manikam, L. B., ME *Ill*, BSc (Eng) Lectr.

Garg, D. P., ME *Ill*, BSc BE (Mech) Lectr.

Prasad, J., ME *Ill*, BSc BE (Mech) Lectr.

Singh, D., BE (Mech) BE (Civl) (on leave) Lectr.

Suri, R. K., BE (Mech) PostgradDipl

(on leave) Lectr.

Gandhar, J. L., BE (Mech) Lectr.

Verma, H. K., BE (Mech) Lectr.

Gupta, C. M., BE (Mech) Lectr.

Srivastava, B. C., BE (Mech) Lectr.

Aroon, N., BSc BE Lectr.

Sahya, G. S., BSc (Mech) ME Lectr.

Jain, R. K., BE (Mech) Lectr.

Grover, G. K., BSc (Eng) Lectr.

Suresh, C., BE *Agra*, MS *Ill*, BSc (Eng) Lectr.

Charam, V., BE (Mech) ME Lectr.

Agarwal, A. B. L., BSc (Eng) PostgradDipl

Lectr

Shukla, D. P., BSc BSc (Eng) Lectr.

Gupta, P. C., BSc BSc (Eng) Lectr.

**Geology**

Mittal, R. S., DIC, MSc PhD *Lowd*.

Reader-in-Charge

**Physics**

Puri, S. P., MSc  
Gupta, S. N., MSc  
Singh, B. P., MSc PhD *Alg*.  
Murthy, T. V. S., MSc PhD  
Singh, Y., MSc  
Srivastava, M. K., MSc

Reader-in-Charge  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**REFRESHER COURSES**

Goyal, B. D., CE  
Droit, S. C., CE  
Kohli, I. C., BSc  
Jindal, M. C.

Dir  
Reader  
Reader  
Reader

**WATER RESOURCES DEVELOPMENT  
TRAINING CENTRE**

Kathpal, K. N., BA CE  
Malhotra, A. N., CE  
Chaturvedi, U. L., CE  
Talwani, B. S.  
Kohli, B. S.  
Mathur, B. S., CE  
Ajwans, H. J.  
Srivastava, J. N., CE

Prof, Hd of Dept.  
(Planning) Prof  
(Civil Design) Prof  
Assoc. Prof.  
Assoc. Prof.  
Dir, Tech. Publications.  
Reader  
Reader

**DIPLOMA POLYTECHNIC**

Sinha, D. N., BSc (Eng) Principal

**Applied Science**

Garg, J. L., MSc  
Singh, S. N., MSc  
3 Sr Instrs, 3 Jr Instrs

(Maths.) Lectr.  
(Phys.) Lectr.

**Engineering, Civil**

Patwardhan, S. V., BE (Civl) *Lowd*.  
Nathana, S. K., BSc BE (Civl)  
Ketkar, R. N., BE (Civl) *Osw*.

Hd.  
Lectr.  
Lectr.

Senha, A. P., BSc(Eng) *Potus*  
Nath, A.  
5 Sr. Instas., 9 Jr. Instrs.

Engineering, Electrical  
Roy, S. N., MSc

Lectr. 3 Sr. Instas., 3 Jr. Instrs  
Lectr

Engineering, Mechanical  
Mathur, A. P., BSc(Eng) *Raw*  
Sachan, M. N., BSc BE(Mech)  
3 Sr. Instas., 5 Jr. Instrs

Hd  
Lectr

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar. V. N. Kak, MA Lach. Asst.  
Registrar (Exams). S. S. Srivastava, BA LLB  
Offg. Supt. of Workshops. B. C. Shrivastava  
Supt. Univ. Estate. R. S. Vaidh. O.C., N.C.C.

Major N. Kumar Univ. Med. Supt. Dr. R. P.  
Mathur Accounts Officer. C. S. Singh. Per-  
sonal Asst. to Vice-Chancellor. C. B. Saraswal,  
MA LLB

## GENERAL INFORMATION

Established in 1847, the Thomason Coll. of Civil Engineering, the oldest engin. coll. in India, became the Univ. of Roorkee by the University Act of 1948 (U.P. Act No. IX of 1948) as amended by Act No. XII of 1949. The univ. was constituted to provide for the teaching of all branches of engin. at Roorkee in a unitary, teaching and residential univ.

**CONSTITUTION.** The authorities of the univ. are the senate and the syndicate. There are also a finance ctee. and an academic council to advise on financial and academic matters respectively.

**INCOME (1950-51).** Total income, Rs. 7,450,356 (state grant, 38 per cent., U.G.C., 24 per cent., govt. of India, 21 per cent., univ. receipts, 8 per cent.; C.S.I.R., 2 per cent., other sources, 1 per cent.; refundable income, 6 per cent.)

**UNIVERSITY PREMISES.** The univ. area comprises about 400 acres along the Ganga canal at Roorkee, amidst the most fertile land in Uttar Pradesh.

**LIBRARY.** Central libr., 51,112 books and periodicals on engin. and scientific subjs.; rare books of bibliog. value. Reading and reference rooms.

**METROLOG. OBSERVATORY.**

**MUSEUMS.** Geol., concrete technol., civil engin.

**LABORATORIES.** Phys., chem., soil mechanics, concrete technol., mechanics, hydraulics, photogrammetry, heat engines, refrigeration, struct. engin., survey, internal combustion engines, testing of materials, hydraulic machines, advanced elect. machines, elect. communication and elect. high voltage. Fully equipped workshops for instructn.

**ADMISSION.** To BE and BArch. Admission to 1st yr. of BE and BArch courses is by annual com-

petitive exam. in May (circulars & apphen. forms available in Jan.). Age limits, 17 to 21 yrs.; 20 per cent. of total places are reserved for scheduled caste and scheduled tribes candidates. Qualifs. for admission. pass in inter exam. with maths., phys. and chem. or geol., or (for archit. course only) inter exam. in arts with maths., provided high sch. exmn. has been passed with phys. and chem., of the U.P. bd. of high sch. & inter educn. or of any other bd. or univ. in the Indian union recog. by the govt.; Comb. higher sch. cert. with maths., phys. and chem., pre-engn. or pre-professl. exams. of all state univs. in India with maths., phys. and chem., 1st yr. exam. of 3-yr. degree course of all statutory univs. with maths., phys. and chem., BSc exam. of Delhi Univ. with Engl., maths. and phys. or chem., provided that chem. or phys. was taken in the higher sec. exam. of the Delhi bd., 1st-yr. exam. of the 3-yr. degree courses of state univs. in India in maths., phys. and chem.; BA (hons.) in maths. of Delhi Univ., provided sec. subjs. were taken in the higher sec. exam., inter sci. cert. (with maths., phys. and chem.) of the East Punjab Univ. in lieu of sec. service; overseas cert. or dipl. in civil, elect. or mech. engin. of the Univ. of Roorkee or any other dipl. recognized by the univ., dipl. in engn. of state bd. of tech. educn., U.P., Lucknow, draughtsman cert. or dipl. exam. of Univ. of Roorkee, and yr. exam. of Natal. Defence Academy; GCE exam. of Univ. of London with maths., phys. and chem. at advanced level; the German exam. with phys., chem. and maths.

To BE second yr. (only 35 students admissible—15 to BE (civil), 8 to BE (electr.), 8 to BE (mech.), 4 to BE (telecommn.)) Admission is by a competitive exam. in May (circulars and apphen. forms available in Jan.). Age limits 18 to 23 yrs. Qualifs. for admission. BSc with phys., chem. and maths. of a recog. univ.

To MSc (only 10 students admitted to each

course): MSc (phys)—1st or high and class BSc with phys, chem & maths; MSc (chem)—1st or high and class BSc with phys, chem, & maths or phys & maths or phys, maths & stats; MSc appl (geol)—1st or high and class BSc with phys, chem & geol; MSc appl (maths)—1st or high and class BSc or BE.

To ME (only 10 students admitted to each course): degree in engin. of Roorkee or other approved univ., or dipl. of the former Thomason Coll. of Civil Engin., Roorkee, or natnl. dipl. of AICTE obtained from Delhi Polytechnic between 1945 and 1952 (both years inclusive), degree in mining engin. for postgrad. course in photogrammetric engin.

To PhD in engin. & sci. master's degree of a recog. univ.

To dipl. courses. Admission to 1st yr. is by competitive exam. in May (circulus & appon forms available in Jan.). Age limits, 16 to 21 yrs; 20 per cent. of total places are reserved for scheduled castes and scheduled tribes candidates. Qualifs. for admission: high sch. exam. with optional sci. (phys and chem) of U.P. bd of educ. or an exam. recog. by govt. as equivalent. H S S E. with optional sci. (phys and chem) of central bd. of sec. educ., Ajmer, or univ. exam. in sci. of Meerut Univ., high sch. and higher sec. exams with optional sci. (phys and chem) of bd. of sec. educ., Jabalpur.

FIRST DEGREES 4 yrs.—BE (civil, electr., mech., telecomm.); 5 yrs.—BArch.

HIGHER DEGREES 2-4 mos' res. in the univ.—PhD in engin. (civil, electr., mech., phys., chem., maths., geol., 12 mos' postgrad. course leading to ME in (i) dam design, irrigation engin. and hydraulics; (ii) struct. engin. incl. concrete technol., (iii) pub. health engin., (iv) soil mechanics and foundation engin.; (v) highway engin.; (vi) photogrammetric engin.; (vii) electr. machine design; (viii) appl. thermodynamics (refrigeration & air conditioning); (ix) appl. thermodynamics (power engin., steam and I.C.E.) 12 mos.—ME in water resources devel. (a course financed by the govt. of India to enable qualified serving engineers of the countries of Asia and Africa to study the latest devels. in engin. techniques in river valley projects; 40 places available) Candidates who have passed the postgrad. exam. but not yet qualified in the dissertation are eligible for award of a postgrad. dipl. in engin.

HONORARY DEGREES. DSc, DEng.

DIPLOMAS 3 yrs.—engin. (civil, electr., mech.); 2 yrs.—draughtsman dipl. (civil, electr. & mech.). The univ. also awards a postgrad. dipl. in engin. (see 'Higher Degrees', above).

OTHER COURSES. Refresher courses: courses of 3 mos. in civil, electr. and mech. engin. to enable serving engineers to keep up to date.

RESEARCH. Facilities for res. are available in civil, electr. and mech. engin.

TUITION FEES PhD course, Rs 100 per session; other postgrad. courses, Rs 240; engin. degree course, Rs 216; dipl. in engin. courses, Rs 54 per session of 9 mos.; draughtsman dipl. courses, nil.

SCHOLARSHIPS. For BE and BArch courses—33 entrance and 70 course scholcs, each of Rs. 50 p.m. for 9 mos., plus 1 scholc in each yr. in any branch of engin. for scheduled caste candidates, available to students of the U.P. For ME courses—scholcs of Rs 250 p.m. for 12 mos. awarded to all students admitted to each course. For engin. dipl. and draughtsman courses—137 scholcs. of Rs 25 p.m. for 9 mos., plus 2 scholcs in each yr. of dipl. in engin. (civil) course awarded to students of the scheduled caste. The govt. of India awards 45 scholcs. of Rs 150, 180 and 200 p.m. to engin. and draughtsman students coming from foreign countries.

ACADEMIC YEAR. Sept. to May, 2 terms. Term dates (approx.)—Sept. 1 to Dec. 21; Jan. 7 to May 31.

THE LANGUAGE OF INSTRUCTION is English.

PRACTICAL TRAINING. Engin. students are provided with facilities to undergo 6 weeks' practical try during the long vacation, in govt. dep'ts and indust. enterprises. They are also given facilities and encouragement to do manual work by joining the community projects of the univ.

RESIDENCE, ETC. Residence in the univ. hostels is compulsory. Engin. students have a common mess (membership compulsory). Dipl. & draughtsman students also have a common mess (membership compulsory).

CLUBS. Separate clubs for the engin., supervisor and draughtsman class students exist. Membership is compulsory. Soc. functions are arranged in the clubs to establish informal contacts between the staff, guests and students.

THOMASONIAN SOCIETY. Organized by students under guidance of a sr. member of staff. Membership is compulsory.

OLD THOMASONIANS' ASSOCIATION. Annual meeting held at time of convocation, which provides an opportunity for former students to establish contacts with the present staff and students. Lectures are given and papers on academic subjects read at the meeting.

NATIONAL CADET CORPS. Courses of two engin. platoons. Tryg. is compulsory for 1st- and 2nd-yr. engin. students.

PUBLICATIONS. Calendar (Rs. 6); Annual Report, Syllabus (Rs. 14); Prospectus (6 rs.); Alumni Journal (incorporating the *Leon* and the *Thomsonian Bulletin*).

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1820	45
Women	20	—
Total	1840	45

Distribution by Courses. *Degree students*. ME(W R.D.), 30; MSc, 47; BE(Civil), 352; BE(Electr), 183; BE(Mech), 179; BE(Telecomms), 68; BArch, 114. *Diploma students*. dipl. in engin., 702 (civil, 355; electr, 178; mech, 169); draughtsmen, 87 (civil, 56; elect

& mech., 31). Postgraduate students, 123  
Total: 1885.

*Included in the figures above are:—*

Pre-University or Intermediate students, nil

Postgraduate students, 123

New admissions, 626

Students from other countries, 85 (Country from which largest number came: Nepal, 63)

DEGREES AWARDED (1961). ME, 53; BE, 249; BArch, 16

DIPLOMAS AWARDED (1961). Postgrad, 84; engin, 182; draughtsman, 29.

# SARDAR VALLABHBHAI VIDYAPEETH\*

Founded 1953

Postal Address : Vallabh Vidyasagar (W Rly), Dist. Kaira,  
Gujarat State, India

Cable and Telegrams : Vidyapeeth

Telephone : Registrar—192 (Annex)

CHANCELLOR—THE GOVERNOR OF GUJARAT (ex office)

VICE-CHANCELLOR—M. D. PATEL, MSc Carn, PhD Wls

REGISTRAR—D. B. PATEL, MA Bow

## TEACHING STAFF

(University Postgraduate Departments)

<b>Botany</b>		Trivedi, R. S., MA BT Bow., MEd Bdr	Prof
..		Patel, J. J., BSc MEd	Prof.
Inamdar, J. A., MSc		Datta, H. G., BSc MEd	Lectr.
Deshpande, Miss B. P., MSc Poona		r Res. Asst.	Lectr.
		Prof.	
		Reader	
		Lectr.	
		Lectr.	
<b>Chemistry</b>		<b>English</b>	
Patel, R. D., MSc Bow., PhD Lon.		Dave, R. A., MA Bow.	Reader
Prof., Hd. of Dept		Pancholi, R. M., MA Bow.	Lectr.
Mankad, B. N., BSc PhD Bow.		<b>French and German</b>	
Patel, S. R., MSc PhD Bow.		Jadhav, G. M., BA Lond.	
Patel, R. P., MSc Gujar.		Reader	
Trivedi, Miss B. A., MSc		<b>Gujarati</b>	
Shah, M. V., MSc Gujar.		Patel, J. K., MA BT Bow.	
Patel, R. S., MSc Gujar.		Patel, J. M., MA BT Bds	
Patel, K. C., MSc		Reader	
Patel, M. R., MSc		Lectr.	
		<b>Hindi</b>	
<b>Commerce</b>		Patel, M. B., MA BT Bow	
..		Khandelwal, R. L., MA Bow., PhD Agri	
Beri, G. C., MCom Agri, PhD Lond		Trivedi, S. R., MA Bow	
Patel, M. H., BA MCom LLB Bow		Prof.	
		Reader	
		Lectr.	
		<b>History</b>	
<b>Economics</b>		Tiwari, A. R. G., MA LLB Agri,	
Amin, R. K., MA Bow., MSc Lond.		PhD Poona	
Prof., Hd. of Dept		Reader	
Adhvaryu, J. H., MA Bow., PhD Bds		<b>Mathematics</b>	
Gulati, K. S., MA Panj.(J.), MSc Lond.		.....	
Datta, G. M., MA Bow.		Patel, D. M., BSc Lond.	
		Patel, V. A., MSc	
		Patel, S. R., MSc Gujar	
		Patel, J. G., MSc	
		Ramanujan, P. B., MA	
<b>Education (S.T.T. College)</b>		Prof., Hd. of Dept.	
Patel, I. J., MA BT Bow.		Reader	
Principal		Lectr.	
		Lectr.	
		Lectr.	

\* Member of the Association of Universities of the British Commonwealth

Philosophy	Political Science
Rhyappa, S. H., MA Mys	Reader Kshirsagar, S. K., MA Baw., PhD Reader
Physics	
Josha, M. S., MSc Baw., PhD Lond.	Prof Reader
Patel, M. M., MSc Gujar	Lect Sanskrit Kopadia, B. H., MA PhD Baw. Reader Shukla, Mrs. C. P., MA Baw. Lect

### ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar	K. A. Amin, BCom Baw.	Librarian	C. R. Patel, LLB Baw., DiplLib Bde
Dir. of Phys. Educn. & Recreation	...	Asst.	Curator, Archaeol. Museum
	A. V. Pandya		

### CONSTITUENT AND AFFILIATED COLLEGES

(BSc(Agr), BCom, etc., after the name of a coll. means that courses are provided there for BSc(Agr), BCom, etc.)

ANAND, *Bansul Agricul College of Agriculture* (tel.: 29 Anand), BSc(Agr), MSc(Agr). Principal—R. M. Patel, MSc PhD Wis. 52 Teachers.

ANAND, *Dairy Science College* BSc(Dairy Science). Principal—J. R. Patel, MSc PhD Wis. 12 Teachers.

VALLABH VIDYANAGAR, *Bhikhabhai Yashwantrao Mahasandayaya* (Commerce Coll.) (tel.: 31 Anand) BCom. Principal—M. M. Shah, MCom Baw., MSc(Econ) Lond. 23 Teachers.

VALLABH VIDYANAGAR, *Bula Vishweshwara Mahasandayaya* (Engin. Coll.) (tel.: 31 Anand) BE (civil, electr., mech.), ME (civil, electr., mech.). Principal—R. H. Chokhvatia, ME Baw., MIE (Indo) Hds. of Depts. CIVIL ENGIN.—V. B.

Priyans; ELECTRIC ENGIN.—K. V. Kardile, MSc ENGIN.—P. M. Patel. 81 Teachers

VALLABH VIDYANAGAR, *Nalini & Arvind Arts College* BA. Principal—T. G. Dookale, MA. Hds. of Depts. GUJARATI—B. K. Choksha, MA PhD. 35 Teachers

VALLABH VIDYANAGAR, *Rajwade P. T. Patel Science College* BSc, BA. Principal—J. G. Chohan, MSc Baw. 21 Teachers

VALLABH VIDYANAGAR, *Secondary Teachers' Training College* (tel.: 193 Anand) BEd, MEd, TD. Principal—J. J. Patel, MA BT Baw. 11 Teachers

VALLABH VIDYANAGAR, *Vithalbhai Patel Mahasandayaya* (Sci. Coll.) (tel.: 31 Anand). BSc. Principal—A. R. Patel, MSc PhD Lond. 56 Teachers

### GENERAL INFORMATION

Established by Bombay Act no. XL of 1935 as a teaching and affiliating univ. in a rural setting, the purpose of Sardar Vallabhbhai Vidyapeeth is to help to accelerate the process of regeneration of villages by the application of modern arts, sci., and technol. to rural requirements.

The univ.'s jurisdiction extends over a radius of 5 miles from the univ. office.

CONSTITUTION. The principal univ. authorities are senate, syndicate, fees, bds. of studies and bd. of postgrad. studies and res. Senate is the supreme governing body and syndicate the chief executive body.

INCOME (1961-62) Rs. 1,169,000 (principal sources: govt. grant, 62 per cent.; fees and other sources, 38 per cent.)

FACULTIES AND DEANS. *Agric.*, Principal R. M. Patel, *arts*, Prof. M. B. Pant (Hindi), *comm.*, Prof. R. K. Amin (econ.); *sci.*, Prof. R. D. Patel (chem.), *technol.* (incl. engin.), Principal R. H. Chokhvatia.

UNIVERSITY LIBRARY. Approx. 28,158 vols.

ADMISSION. For enrolment as students of the univ. for degree courses, applicants must have passed the S.S.C. exam. conducted by a recog. exam. bd. and the pre-univ. exam. of the univ. after attending a course of instruct. as laid down by the univ. (or any other exam. recog. as equivalent). Students passing the S.S.C. exam. are admitted to the pre-univ. course.

FIRST DEGREE. 3 yrs. after pre-univ.—BA, BSc, BCom, BSc(Agr), 4 yrs. after pre-univ.—BE; 4 yrs. after pre-univ. or H.S.S.C. exam.—BSc(Dairy Science). First degrees are taken entirely by regular attendance.

HIGHER DEGREE. BEd, 1 yr.; MA, MSc, MCom, MEd, MSc(Agr), ME, a yrs., PhD, a yrs. after master's degree. Degrees open to grads. of other univs. on reciprocal basis.

DIPLOMA TD, 1 yr. after S.S.C. exam.

**RESEARCH** Guidance in it is provided in the univ postgrad depts (see 'Teaching Staff', above)

**STUDY LEAVE** There is provision for study leave for permanent and whole-time teachers of the univ., other than profs., with not less than 3 yrs' continuous service. This opportunity is given to teachers in accordance with univ. requirements.

**FEES** Tuition fee per term for postgrad. students: fac. of agric., Rs. 30; facs of arts, comm., sci. (maths. only), Rs. 60; other sci. subjs., Rs. 100; fac. of engin., Rs. 200; BEd, Rs. 120; TD, Rs. 75; MEd, Rs. 100.

The constituent colls. may in addn. charge

fees not exceeding Rs. 10 in the aggregate per term for gymkhana, library and other services.

**ACADEMIC YEAR.** Two terms - June to Oct., Nov. to March.

**USUAL LANGUAGE OF INSTRUCTION** Hindi for all courses in facs. of agric., arts, comm., engin. and sci.; Gujarati for BEd.

**STUDENT RESIDENCES.** The univ. has its own hostel for 144 students.

**PUBLICATIONS** *Univ. Handosh* (pt. II, containing the acts, statutes and ordinances; and pt. III, containing syllabuses for various courses of study); *Trends in Modern Poetry* (in Hindi).

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4420	—
Women	373	—
Total	4793	—

Distribution by Faculties: Agric., 785; arts, 970; comm., 430; dairy sci., 21; educn. (S.T.T.),

140; engin., 956; sci., 1246; postgrad., 236. Total 4793.

Included in the figures above are —

Ple-University students, 1920

Postgraduate students, 236.

Students from other countries, nil

**DEGREES AWARDED (1961).** Agric.: BSc(Agric), 52; MSc(Agric), 6. Arts: BA, 79; MA, 25. Comm.: BCom, 22; MCom, 5. Educn.: BEd, 64. Engin.: BE, 113. Sci.: BSc, 74; MSc, 22. Total number of first degrees awarded, 409.



# UNIVERSITY OF SAUGAR\*

Founded 1946

Postal Address: Sagar, Madhya Pradesh, India

Cables and Telegrams: University, Sagar

Telephone: Sagar 5

CHANCELLOR—K. N. KATJU, MA LL.D. *Allid.*, DLitt

PRO-CHANCELLOR—S. D. SHARMA, MA LL.M. PhD Camb., DPA Lond., FBA

VICE-CHANCELLOR—G. P. BHUTY, BSc LLB

FINANCE OFFICER—B. P. MISRA, BA

REGISTRAR—Professor I. CHANDRA, MA Panj.

DEPUTY REGISTRAR—P. RAJPAI, MA *Allid.*, LLB

DEANS—ARIS—Professor M. P. SHARMA, MA DLitt *Allid.* (Pol. Sci.); EDUCATION—Principal A. MISRA, MA BSc LLB BT DLitt; ENGINEERING—V. M. DOKHA, MSc PhD Cal.; LAW—G. P. BHUTY, BSc LLB; SCIENCE—Professor D. S. SRIVASTAVA, MSc PhD Belf. (Zool.)

PROCTOR—Professor N. D. RAJPAI, MA Ban.

WARDEN—M. L. MISRA, MA DSc *Allid.*

## TEACHING STAFF

### Ancient Indian History, Culture and Archaeology

Bajpai, K. D., MA Ban.	Asst. Prof.
Pathak, V. S., PhD Ban.	Asst. Prof.
Pandey, S., MA <i>Allid.</i>	Asst. Prof.
Singh, U. V., MA Luck.	Asst. Prof.
Mishra, S. D., MA Luck.	Asst. Prof.
Mishra, R. N., MA Ban.	Asst. Prof.

### Anthropology

Dube, S. C., MA PhD Nag.	Prof.
Shrivastava, R. P., MA Luck., PhD	Asst. Prof.
Dube, Mrs. Leela, MA PhD Nag.	Asst. Prof.
Mawalswala, J. D., MA Delhi, PhD	Asst. Prof.
Datta, P. K., MSc PhD Delhi	Asst. Prof.

### Botany

Saksena, S. B., MSc PhD	Reader
Bhargava, H. R., MSc Agra	Asst. Prof.
Rao, Y. S., MSc Ban., PhD Tan. & Song.	Asst. Prof.
FLS	Asst. Prof.
Tingey, Y. D., MSc Agra, PhD	Asst. Prof.
Bajpai, S. K., MSc DPhil <i>Allid.</i>	Asst. Prof.

### Chemistry

Bhattacharyya, A. K., DSc <i>Allid.</i> , FRIC	Prof.
Bansal, S. N., MSc DPhil <i>Allid.</i>	Reader
Nigam, S. S., MSc <i>Allid.</i> , DIC, PhD Lond. & Song, FRIC	Reader
Mahyanti, A. V., MSc <i>Allid.</i>	Asst. Prof.

Lal, S. S., MSc <i>Allid.</i>	Asst. Prof.
Shrivastava, H. N., MSc Nag., PhD Glas.	Asst. Prof.
Manhas, M. S., MSc DPhil <i>Allid.</i>	Asst. Prof.
Awastha, P. N., MSc PhD	Asst. Prof.
Rai, R. C., MSc DPhil <i>Allid.</i>	Asst. Prof.
Singh, R., MSc PhD Ban.	Asst. Prof.
Kher, Y. G., MSc PhD	Asst. Prof.
Bhattacharya Asum, K., MSc PhD	Asst. Prof.
Dikshit, M. K., MSc PhD	Asst. Prof.

### Commerce

Sahay, G., MA PhD Lond.	Reader
Roy, R. P., MCom <i>Allid.</i> , PhD	Asst. Prof.
Pandey, V. P., MCom LLB PhD	Asst. Prof.
Saksena, R. B., MCom Agra, PhD	Asst. Prof.
Seth, P. K., MCom PhD	Asst. Prof.

### Economics

Mishra, J. N., MSc Lond.	Reader
Nakhara, M. G., MA Nag.	Asst. Prof.
Shete, M. K., MA Nag.	Asst. Prof.
Agarwal, J. L., PhD	Asst. Prof.
Mishra, B. D., MCom <i>Allid.</i>	Asst. Prof.
Kapil, D. P., MA	Asst. Prof.
Raman, A., MA LLB	Asst. Prof.

### English

Swarnanathan, S. R., MA Madr., DPhil Oxon.	Prof.
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\* Member of the Association of Universities of the British Commonwealth

Desai, C. N., MA PhD	Reader	Shrivastava, S. K., MSc	Asst Prof
Mallikarjunan, S., MA <i>Madh. &amp; Chic.</i>	Asst. Prof	Maheshwari, S. N., MSc	Asst Prof
Mukerji, A., MA DPhil <i>Alld</i>	Asst. Prof		
Chatterji, A. N., MA <i>Cole</i>	Asst. Prof	<b>Persian</b>	
Shrivastava, H. B., MA LLB	Asst. Prof	Amar, V. B., MA <i>Manish Fazl Pary</i>	Hon. Asst Prof
Misra, J. S., MA <i>Luck</i>	Asst. Prof		
Chamra, S. V., MA <i>Myr.</i>	Asst. Prof	<b>Pharmacy</b>	
Verna, Mrs. P. E., MA	Asst. Prof	Sharma, S. N., MPharm <i>Ban</i> , PhD <i>Mane</i>	Reader
Jain, K. C., MA	Asst. Prof		

**Geography**

Muzaffer Ali, MA MSc PhD <i>Lond</i> , FNI	Prof.	Chauhan, C. S., MA <i>Nag</i>	Asst Prof
Misra, V. C., MA PhD	Asst Prof	Verna, K. C., MS PhD <i>Wark</i> , BPharm	Asst Prof
Ayyar, N. P., MA PhD	Asst Prof		
Agarwal, P. C., MA <i>Alld</i> , PhD	Asst Prof	Singh, H. K., MPharm PhD <i>Ban.</i>	Asst Prof
Varma, Pramila, MA DPhil <i>Alld</i>	Asst Prof	Khare, R. L., MSc	Asst Prof
		Shrivastava, MSc	Asst Prof

**Geology, Pure and Applied**

West, W. D., MA ScD <i>Camb.</i> , FGS, FNI	Prof		
Chiplonkar, G. W., DSc <i>Ban</i>	Reader		
Das, K. N., MSc <i>And</i>	Asst Prof	Varma, D., MA DLitt <i>Alld</i>	Prof
Murty, T. V. V. G. R. K., MSc <i>And.</i>	Asst. Prof.	Mehrotra, R. C., MA <i>Agra</i>	Asst Prof
Das, B., MSc <i>Ban</i>	Asst Prof	Dewvedi, D. S., MA PhD <i>Agra</i>	Asst Prof
Durgu, M. V., MSc <i>Nag.</i>	Asst Prof		
Shrivastava, J. N., MS	Asst Prof	<b>Philosophy and Psychology</b>	
Baba, S. K., MSc <i>Myr</i> , PhD <i>Madh.</i> , MS	Asst Prof	Awastha, C. S., MA <i>Ban.</i> , LLB	Asst Prof
		Prakash, J., MA DPhil <i>Alld</i>	Asst Prof

**Hindi**

Bajpeyi, N. D., MA <i>Ban.</i>	Prof.	Joshi, M. C., MA <i>Ban</i> , AM <i>Stan</i> , PhD <i>Paris</i>	Asst. Prof.
Pande, R. N., MA <i>Alld.</i>	Asst. Prof.	Mohas, I. S., MA <i>Potat</i>	Asst. Prof.
Singh, R. L., MA PhD	Asst. Prof.	Kumar, D., MA <i>Delhi</i>	Asst. Prof.
Bhatnagar, R. R., MA DPhil <i>Alld</i>	Asst. Prof.	Shukla, J. P., MA <i>Jab.</i>	Asst. Prof.
Pram Shankar, MA PhD	Asst. Prof.		
Jha, G. N., MA <i>Nag.</i>	Asst. Prof.	<b>Physics</b>	
Shukla, B. D., PhD	Asst. Prof.	Bhawalikar, D. R., MSc <i>Nag.</i> , PhD <i>Lond</i>	Prof.
Misra, S. K., MA PhD	Asst. Prof.	Shrivastava, M. P., DIC, MSc <i>Lond</i>	Reader
Tilpathi, R. M., MA PhD <i>Ban.</i>	Asst. Prof.	Pandey, D. C., MSc <i>Luck</i> , PhD <i>Lond.</i>	Asst. Prof.
Dube, L. N., MA	Asst. Prof.		

**History**

Gupta, H. L., MA DPhil <i>Alld</i>	Reader	Ransode, J. D., MSc <i>Ban</i> , PhD <i>Lond.</i>	Asst. Prof.
Amar, V. B., MA <i>Manish Fazl Pary.</i>	Asst Prof	Shrivastava, R. K., MSc <i>Nag.</i> , PhD	Asst. Prof.
Tilpathi, G. S., MA <i>Ban</i>	Asst Prof	Deo, I., MSc <i>Alld.</i>	Asst. Prof.
Tiwedi, D. B., MA <i>Luck.</i>	Asst Prof	Agarwal, J. P., MSc <i>Alld</i>	Asst. Prof.
Ajwani, J. L., MA	Asst Prof	Zope, J. K., MSc PhD	Asst. Prof.
		Sivaraman, S., MSc	Asst. Prof.
		Shrivastava, K. S., MSc <i>Luck</i>	Asst. Prof.
		Shrivastava, A. P., MSc <i>Luck</i>	Asst. Prof.

**Law**

Bhatt, Justice G. P., BSc LLB	Prof	Sharma, M. P., MA DLitt <i>Alld</i>	Prof
Shrivastava, G. S., MA LLB	Hon. Asst Prof.	Singh, S. C., MA PhD DLitt <i>Luck</i>	Reader
Sharma, S. L., BA LLB	Hon. Asst Prof.	Shrivastava, R. P., MA LLB PhD	Asst. Prof.
Verna, J. P., BA LLB	Hon. Asst Prof.	Dube, R. C., MA PhD	Asst. Prof.
Sarwate, N. S., BA LLB	Hon. Asst. Prof.	Chauhan, V., MA PhD	Asst. Prof.
		Parokut, B. R., MA PhD	Asst. Prof.
		Tiwari, S. C., MA <i>Nag</i> , PhD <i>Delhi</i>	Asst. Prof.
		Kaushik, P. D., MA <i>Alld</i>	Asst. Prof.
		Dube, N. P., MA	Asst. Prof.

**Marathi**

Adoni, D. L., MA <i>Nag.</i>	Asst. Prof
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**Mathematics**

Misra, M. L., MA DSc <i>Alld</i>	Prof
Singh, B. D., MA <i>Ban</i>	Asst Prof
Misra, R. K., MSc PhD <i>Nag</i>	Asst. Prof
Sharma, P. L., MSc PhD	Asst. Prof.

**Sanskrit**

Upadhyaya, R., MA DPhil <i>Alld</i>	Reader
Bhawalikar, Mrs. Vanamala, MA <i>Nag.</i> , PhD	Asst. Prof.

Bhattacharya, B. MA PhD *Ban*  
Pandey, Y. MA DPhil *Alld.*

Asst Prof  
Asst Prof

### Urdu

Amar, V B. MA Munshi Fazil Pany

Hon Asst Prof

### Yogic Studies

Josh, K S. MSc(Agrs) Poona, MA Asst Prof

### Zoology

Srinivasa, D S., MSc PhD *Bell* Prof  
Bhargava, H. N., MSc *Alld.*, PhD Asst Prof.  
Saini, R S., MSc *Agrs*, PhD *Comb* &  
Sang Asst Prof  
Shrivastava, R K. Asst Prof.  
Misra, S D., MSc *Lach.*, PhD *Lach* &  
Sark Asst Prof

## ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Exams) - R. Nema, MA BT  
Chief Librarian D. Varma, MA DLitt *Alld*  
Librarian B. L. Pathak, MA MOL Pany Chair-

man of Delegacy - A. K. Bhattacharya, DSc *Alld.*  
Statistical Officer N S Verma, MA PhD.

## AFFILIATED COLLEGES

Note—All these colleges are in Madhya Pradesh

[Preparatory, BA, etc., after the name of a coll. means that courses are provided there for Preparatory, BA, etc.]

AMBICAPUR, *Govt. Degree College* BA, BCom Principal—R. Guru, PhD 8 Teachers

BALAGHAT, *Govt. Degree College* BA, BSc. Principal—R. N. Tandon, MSc. 19 Teachers.

BETUL, *J. H. Govt. Degree College* BSc, BCom, BA. Principal—R. Prakash. 9 Teachers.

BETUL, *Law College* LLB Principal—M. P. Dwivedi. 5 Teachers

BILASPUR, *C. M. Dubey Commerce & Arts College* BA, BCom Principal—D. P. Shukla, MA LL.M. 18 Teachers

BILASPUR, *Govt. Girls' Degree College* BA. Principal—Mrs. E. Raju, MA 4 Teachers

BILASPUR, *P. G. B. T. College* BEd(Basic) Principal—N. C. S. Rao, MA. 7 Teachers

BILASPUR, *S. B. R. College* BA, MA (pol), BSc, LL.B. Principal—A. L. Pandey, MA BT. 40 Teachers.

BURHANPUR, *Seva Sadan Mahavidyalaya* BA, BCom Principal—G. B. Choudhary, MA LL.B. 13 Teachers.

CHHATARPUR, *Maharaja College* BA, MA, BSc, MSc, BCom, BEd Principal—H. R. Mishra, MA BT LLB DLitt. 59 Teachers

CHHATARPUR, *Pandit Mohan Nehru Law College* LLB Principal—U. Singh, BA LL.B. 5 Teachers.

CHHINDWARA, *Motilal Nehru Mahavidyalaya* BA, BCom. Principal—S. N. Kaveeshwar, MSc PhD. 15 Teachers.

CHHINDWARA, *Laluri Degree College* BA, BSc, BCom. Principal—J. Lahiri, DipEd *Levd.*, CertEd *Comb.*, MA BT 16 Teachers.

DAMOH, *Degres College* BA, BSc, BCom. Principal—P. M. Patanjali, MA. 8 Teachers.

DAHA, *Govt. Degree College* BA, BSc. Principal—N. P. Naidu, MA. 18 Teachers.

DAHA, *Law College* LLB. Principal—R. C. Goswami, MA LL.B. 3 Teachers.

DIHANA, *L. P. Sanskrit Degree College* IA, BA(Classics). Principal—Pdt. C. B. Panda, MA. 8 Teachers

DURG, *Govt. Arts & Science College* BA, BSc Principal—R. N. Singh, PhD. 21 Teachers

HOSHANGABAD, *Honst. Science College* BSc (HonsSci) Principal—Miss T. Titus, MA 8 Teachers.

HOSHANGABAD, *Narmada Mahavidyalaya* BSc, BCom, BA, LLB Principal—R. L. Sharma, MA LL.B. 25 Teachers.

ITANSI, *Mahatma Gandhi Memorial College* BA, BCom Principal—S. B. Trivedi, MA MOL 12 Teachers

JAGDALPUR, *Govt. Degree College* BA, BSc Principal—S. N. Mehotra, MA. 17 Teachers.

JANJOR, *Janghi College of Arts & Commerce* BA, BCom Principal—S. P. Varma, MA LL.B. 10 Teachers.

KHANDWA, *Govt. Basic Training College* DipEd, BEd, MEd. Principal—K. M. Bhatnagar, MA *Mich.*, MSc *Nag* 24 Teachers.

KHANDWA, *Motilal Nehru Law College* LLB. Principal—R. K. Gupta, MA LL.B. 7 Teachers.

KHANDWA, *Shree Nalambharwar Arts & Commerce College* BA, BCom, BSc. Principal—R. L. Nirula, DIC, PhD. 26 Teachers.

MANDLA, *Rani Durgavati Mahavidyalaya* BA, BCom. Principal—S. L. Katara, PhD. 13 Teachers

NARBHAMPUR, *Narsinhapur Degree College* BA, BCom Principal—P. H. Bhurane, MA PhD. 16 Teachers

PACHMARHI, *A.E.C. College and Centre* BEd. Principal—Lt.-Col. V. N. Gogte. 8 Teachers.

PANNA, *Chhatrapati Deyee College* BA, BSc. Principal—C. Malviya, MA 16 Teachers.

RAIGARH, *Kwarawal Gout Arts & Science Degree College* BA, BSc Principal—S P Tiwari, MA PhD LLB 16 Teachers

RAIPUR, *Chhatargarh College* BA, MA (pol), BCom Principal—J Yogendram, MA LLB 17 Teachers

RAIPUR, *College of Science* BSc, MSc. Principal—V. B Shukla, MSc PhD 61 Teachers

RAIPUR, *Durga Mahavidyalaya* BA, BCom Principal—M V. Ramchandran, MA 26 Teachers.

RAIPUR, *Gout Agriculture College* BSc(Agr), MSc(Agr) Principal—S L Vishnoi, MS 9 Teachers.

RAIPUR, *Gout Ayurvedic College* BAMS Principal—V S. Sasmawati, MA. 15 Teachers

RAIPUR, *Gout College of Engineering & Technology* BE (metall., mining, civil, electr., mech.) Principal—P. C. Wadhvani, BSc(Mech&Engg), MIE(India) 22 Teachers

RAIPUR, *Gout D S V Sanskrit Mahavidyalaya*, Inter, classics, BA (classics) Principal—S. S. Haskurka, PhD 13 Teachers

RAIPUR, *Gout Girls' Degree College* BA, BSc Principal—Mrs N Sharan, MA 14 Teachers

RAIPUR, *Gout P.G.B.T College* DipEd, BEd, MEd Principal—S. Chaturvedi, MA 18 Teachers.

RAIPUR, *Law College* LLB Principal—Ahmad Ali, BA LLB 7 Teachers.

RAJNANDGAON, *Digwaj Mahavidyalaya* BA, BCom, LLB Principal—K. L. Shukla, MA LLB 27 Teachers.

REWA, *Gout Agriculture College* BSc(Agr), MSc(Agr) Principal—M. P. Singh, MSc. 23 Teachers

REWA, *Gout Girls' Degree College* BA. Principal—Mrs R. Chaudhary, PhD 8 Teachers

REWA, *Gout Samrat Degree College* BA (Classics) Principal—R G Ladda, MA. 5 Teachers

REWA, *Gout Tansen College* BEd, MEd Principal—G Y Tankhwal 11 Teachers

REWA, *Thakur Ramesh Singh College* BA, MA, BSc, MSc Principal—O. B Shukla. 37 Teachers

SAGAR, *P.G.B.T. College* BEd, MEd Principal—U S. Dwivedi, MA MEd 8 Teachers

SATNA, *Gout Degree College* BA, BSc Principal—S S Dasgupta, MA 19 Teachers

SATNA, *Law College* LLB Principal—V S Mishra 4 Teachers

SATNA, *Vaishya Mahavidyalaya* BCom Principal—R. G. Gupta 5 Teachers

SCONI, *Shri Shikha Chand Jain Science & Arts College* BA, BSc. Principal—R S Nigam 13 Teachers

SHAHNOL, *Gout Degree College* BA, BSc Principal—R M. Chaturvedi, MA LLB 10 Teachers.

SHAHNOL, *Law College* LLB Principal—B L Sharm 5 Teachers.

SIDRI, *Gout Degree College* BA. Principal—A H Nigam, MA. 14 Teachers

TEKAMGARH, *Gout Degree College* BA, BSc. Principal—R. Verma. 21 Teachers

## GENERAL INFORMATION

The univ. was founded in 1946 by Sir Hari Singh Gour, who gave Rs. 20 lacs and appealed to both central and provincial govts. to make suitable donations. The govt. of Madhya Pradesh donated Rs. 10 lacs towards the univ. endowment fund and made a further grant of Rs. 15 lacs towards bldgs. and equipment. They are also making a grant of Rs. 10 lacs a yr. towards the maintenance of the univ.

The univ.'s jurisdiction extends over the districts of Balasghat, Bastar, Betul, Bilaspur, Chhatrapur, Chhindwara, Damoh, Datia, Darg, Hoshangabad, Mandla, Narsimhapur, Nimer, Panna, Raigarh, Raipur, Rewa, Sagar, Satna, Seoni, Shahdol, Sidhi and Tifamgarh in Madhya Pradesh.

The founder of the univ. intended that it should be particularly concerned with polytech. educn. A scientific and technol. fac. has grown up laying sp. emphasis on sci., phys., technol., engin and agric., along with a study of arts and soc. scis.

The univ. is a teaching and residential as well as an affiliating univ. Most of the teaching staff live in the univ. bldgs. and thus participate in the wider life of the univ.

CONSTITUTION The univ. authorities are the court, executive council, academic council, cttee of reference, and fees

INCOME (1960-61). Rs 5,651,919 (state govt. grant, Rs 1,000,000; U G C. and govt. of India grants, Rs. 608,401; scholps, Rs 207,944, fees, Rs 266,072, endowments, Rs. 270,877; deposits, advances and sale of investments, Rs 2,205,514, misc. Rs. 1,092,211)

UNIVERSITY PARENCET The govt. of Madhya Pradesh have transferred to the univ 2050 acres of land, free of cost, at a site selected by the univ. for the founding of the univ. town. The permanent bldgs. of the univ. are being constructed on the new site, which is on a plateau commanding extensive and beautiful views and more than 2000

ft. above sea level. A wide range of bldgs has now been completed.

**LIBRARY** 76,926 vols., 11,250 bound periodicals, 515 pamphlets

**LABORATORIES.** Bot., chem., geol., pharm., phys., zool

**MUSEUMS.** Anthropol., bot., geol., hist., zool  
**BOTANICAL GARDENS.**

**OBSERVATORY.** Meteorol. observatory controlled by phys. dept.

**ADMISSION.** Students who have passed the higher sec. exam. of Madhya Pradesh, or an equivalent exam., are eligible for admission to the 1st yr. of the degree course at the univ. Those who have passed the univ. BA, BSc and BCom prelim. exam. or any similar exam. recog. by the univ. are equivalent are eligible for admission to the 2nd yr. of bachelor degree course. Grads of this univ., as well as of other recog. univs., are eligible for admission to the postgrad. degree courses

**NON-MEMBERS OF THE UNIV** are not admitted to classes.

**FIRST DEGREES.** 3 yrs. after preparatory—BA, BSc, BPharm, BSc (biochem.), BCom, BSc(Agric), 3 yrs.—BE in mining & metall., civil, electr., mech., telecom. engin.; 5 yrs.—BAMS (Ayurvedic med. & surg.) Classics, old scheme—inter (2 yrs.) and BA (2 yrs.), new scheme (from 1963)—BA (3 yrs.). All degrees (incl. higher degrees) of the univ. may be taken externally by teachers in recog. schools and colls. within the territorial jurisdiction of the univ., and by women candidates.

A course in general knowledge is compulsory for all undergrad. students.

**HIGHER DEGREES** 1 yr.—BED, 2 yr. after BED—MED; 2 yrs.—LLB, MA, MSc, MSc(Agric), MPharm, MCom; 3 yrs.—MTech; 20 mos. or more—PhD.

**HONORARY DEGREES** DLitt, LL.D

**DIPLOMAS.** Yogic sci. & dipl., 2 yrs., jr.

dipl., 1 yr., educn (DipEd), pharm., engin., 2 yrs., engin., 3 yrs.; oriental learning, 4 yrs

**POSTGRADUATE RESEARCH** is carried out in all depths in facs. of sci., arts and educn.

**FEEs** per session Pre-professional, Rs. 135 Degree courses: BA, BSc, Rs. 135, BCom, Rs. 144; BSc(Agric), Rs. 145; LLB 'previous', Rs. 108, final, Rs. 126; BPharm, MA, MSc, MPharm, Rs. 162; BE, Rs. 165, MTech, Rs. 162, MCom, Rs. 171

**ACADEMIC YEAR.** July to April, 2 terms. July to Oct., Nov. to April.

**LANGUAGE OF INSTRUCTION** Hindi in inter classes (except engin., law and pharm.) and in degree classes (except for sci. and tech. subs. where both Hindi and Engl. are used)

**STUDENT RESIDENCES** 2 hostel bldgs have been completed to accomm. 800 students. Hostel fees: single room, Rs. 5 p.m., dble. room, Rs. 4 p.m.

**STAFF RESIDENCES.** About 130 staff members live in the residences on the univ. campus (new site).

**UNIVERSITY MILITARY FORMATION.** Regular natl. cadet corps indep. co. maintained, through the state govt., by min. of defence of govt. of India.

**STUDENT HEALTH SERVICE.** The bd. of physical welfare supervises the arrangements connected with phys. welfare of students. There is a resident med. officer and a small hosp. unit

**STUDENTS' UNIONS.** Univ. of Saugar union, delegacy students' union and hostel students' union.

**PUBLICATIONS.** *Calendar* (publ. every 3rd yr., Rs. 5; current edn., 1958-59); *Prospectures and Syllabuses* (annual, various prices); *Annual Report*; *Univ. Journal* (twice a yr.); magazines of students' unions (twice a yr.).

**UNIVERSITY PRESS.** The univ. maintains a small univ. press.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	<i>Pull-Time</i>	<i>Part-Time</i>
Men . . .	13,866	59
Women . . .	1,876	35
Total . . .	15,742	94

Univ. colls.: 1958 (1720 m., 238 w.); affiliated colls.: 13,878 (12,205 m., 1673 w.). Total: 15,836.

**Distribution by Faculties, etc.** *Agric.*, 291; *arts*, 7466; *comm.*, 2043; *Ayurvedic med.* 67

*avg.*, 123; *educn.*, 597; *engin.*, 624; *law*, 667; *pharm.*, 79; *sci.*, 3946. Total: 15,836.

**DEGREES AWARDED (1961-62).** BA, 1156; BA (classics), 14; BCom, 386; BSc, 405; BSc (Agric), 41; BED, 455; BSc (biochem.), 8; BAMS (pt II), 37; BE (5-yr.), 76; LLB, 158; BPharm, 8; MA, 478; MSc, 148; MCom, 31; MSc(Agric), 22; MA (classics), 7; MED, 18; BSc (home sci.), 9

**DIPLOMAS AWARDED (1961-62)** DipT, 124; DipPharm, 11; DipSanskrit, 14; Yogic sci. (jr.), 10; Yogic sci. (sr.), 3.

# SHREEMATI NATHIBAI DAMODAR THACKERSEY WOMEN'S UNIVERSITY\*

Founded 1916

Postal Address : Nathibai Thackersey Road, Queen's Road, Fort, Bombay 1,  
Maharashtra State, India

Cables and Telegrams: Uniwomen

Telephone: Bombay 241879

CHANCELLOR—H E. THE GOVERNOR OF MAHARASHTRA (ex officio)

VICE-CHANCELLOR—MRS. PRINILHA V. THACKERSEY, DLitt

DEAN—MRS. SHARDA DIWAN, MA

REGISTRAR—MRS. KAMALINI H. BHANRAJI, BA MED

DEPUTY REGISTRAR—I. N. KAJI, BA BT LLB BOM.

## CONDUCTED COLLEGES

BOMBAY, *P.V.D.T. College of Education for Women*, 1 Nathibai Thackersey Rd., Queen's Rd., Fort, Bombay, 1 (tel.: 243682) Founded 1939. Principal—Miss Shaktantala Mehta, MS 16 other Teachers

BOMBAY, *S.N.D.T. College for Women*, 1 Nathibai Thackersey Rd., Queen's Rd., Fort, Bombay, 1 (tel.: 241137) Founded 1931. Principal—Prof. D. S. Phatak, MA. 65 other Teachers

BOMBAY, *S.N.D.T. College of Home Science*, 1 Nathibai Thackersey Rd., Queen's Rd., Fort, Bombay, 1 (tel.: 241137). Principal—Mrs. Narmala Khosla, MS *Tewarree*. 31 other Teachers.

POONA, *S.N.D.T. College for Women*, Karve Rd., Branciflora, Poona, 4 (tel.: 56899) Founded 1916. Principal—Mrs. Sharada G. Bai, MA BT PhD Poona. 24 other Teachers.

## AFFILIATED COLLEGES

AHMEDABAD, *S.L.U. Gujarat Mahila Pathshala*, Sadai Patel Marg, opposite Khambha Gate (tel.: 32012) Founded 1920. Principal—Miss Indumati Mehta. 15 other Teachers

BARODA, *Maharaja Chhatrapati Mahila Pathshala*, near Surajgarh. Founded 1923. Principal—Miss Sudhar R. Desai, MA PhD. 14 other Teachers.

BHAVNAGAR, *Shri Mahila College*, Waghvadi,

Shah Sadan. Founded 1942. Principal—K. C. Shah, MA. 13 other Teachers.

BOMBAY, *Shri Matanga Gyanani Sans Mandal Women's College*, 358 Telang Rd., Bombay, 10 (tel.: 63046). Founded 1958. Principal—Mrs. Dhairyaiah Vora, MA PhD Bsc. 14 other Teachers.

SURAT, *Z.P. Wadha Women's College*, Athwa Line\*. Founded 1948. Principal—Mrs. Subhadra R. Marfatia, MA. 12 other Teachers.

## GENERAL INFORMATION

The S.N.D.T. Women's Univ. was founded by Dr. D. K. Karve in 1916 on the model of the Women's Univ. of Tokyo. Dr. Karve based his plan for the new univ. on the recognition of 2 principles: the use of the mother tongue as the most natural and effective medium of instruction, and the differentiation in courses of study to suit the different roles played by men and women in the soc. life of the country. In 1920 the univ.

was placed on a firm financial foundation by a magnificent gift of Rs. 15 lacs from Sir Vithaldas Thackersey.

The jurisdiction of this univ. extends over the whole country. Its distinctive features are that it is mainly concerned with the educn. of women (courses of study incl. such subjs. as home econ., drawing, painting and nursing) and that all teaching work is carried on in Gujarati and Marathi.

\* Member of the Association of Universities of the British Commonwealth

The univ. was granted statutory recognition by the state govt in 1951. It has 9 colls., 4 conducted and 5 affiliated.

**CONSTITUTION.** The supreme governing body of the univ. is the senate. The exec. body is the syndicate.

**INCOME.** The univ. receives a recurring grant of Rs 167,000 from the govt of Maharashtra. Exam. fees, Rs. 285,000, annual endowment (from Thackersey trust), Rs 45,000.

**LOCATION AND BUILDINGS.** The univ. was originally located in Poona, but since 1936 the main office has been in Bombay. The univ. office and the colls. in Bombay are housed in spacious bldgs. constructed at a cost of about Rs 35 lacs.

**ADMISSION.** The qualif. for admission is the S.S.C. exam. of the S.S.C. Bd., Poona, or any other exam. recognised as equivalent for the purpose.

**FIRST DEGREES.** BA.—4 yrs. Home sci. (incl. elem. bot. & hyg.), home making, home management & cookery, food & nutrition, physiol., psychol., are compulsory. Ethics, philes., music, drawing and painting are optional subjs. BSc Nursing honrs.—4 yrs. Theoret. instruct. at the univ., practical trg. and demonstrations at the

Bombay Hosp. Students also visit the various special instrns. in the city for trg.

A degree coll. in home sci. was establd. in June 1962.

**HIGHER DEGREES.** Postgrad. courses are offered leading to the degrees of MA (2 yrs.), BEd (1 yr.) and MEd (2 yrs. after BEd).

**EXTERNAL DEGREES.** All univ. exams may be taken externally except those for BEd and BSc Nursing honrs.

**FEES.** Coll. fees, Rs 120 per term.

**ACADEMIC YEAR.** Two terms. June 15 to Oct. 14, Nov. 15 to March 14.

**RESIDENCE.** Hostel expected to be ready during 1963.

**STUDENT HEALTH.** No specific health service, but immediate first aid provided for in case of emergency.

**STUDENT ASSOCIATIONS.** A students' welfare body looks after student interests generally. There are also literary and sports bodies and unions.

**PUBLICATIONS.** Prospectuses of courses (publd. from time to time). *Crises*, *Dawn* etc. (both in Gujarati & Marathi); *Econ.* (in Marathi); *General Educn.* (both in Gujarati & Marathi); *Social* (in Gujarati); *Cultural History of India*.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Women only	7614	—

All students are in Faculty of Arts

Included in the figures above are :—

Intermediate or Pre-University students, nil.

External students, 3768.

Postgraduate students, 422.

Students from other countries, nil.

**DEGREES AWARDED (1960-61)** BA, 1360; BSc Nursing honrs., 10; MA, 124; BEd, 196; MEd, 27.

# SRI VENKATESWARA UNIVERSITY\*

Founded 1954

Postal Address - Tirupati, Andhra Pradesh, South India

Cables and Telegrams - University, Tirupati

Telephone - Tirupati 52

CHANCELLOR—THE GOVERNOR OF ANDHRA PRADESH (ex officio)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF ANDHRA PRADESH (ex officio)

VICE-CHANCELLOR—S. GOVINDARAJULU, MA LLB Camb., BL

REGISTRAR—M. RAMANUJARAM NAIDU, MA Madr.

DEPUTY REGISTRAR—B. SUBBA RAO, BA Madr

## TEACHING STAFF

[§ = Hd. of Univ. Dept.]

### UNIVERSITY COLLEGE OF ARTS AND SCIENCES

Principal—Prof. T. A. Purushottam, MA Madh., PhD Lond.

#### Arabic, Persian and Urdu

Mohammad Hussain Nizami, S., MA

LLB Alig., PhD Lond

Ahmed, R. U., MA Alig., PhD Alig

Fazlollah, S. M., MA LT Madr

§Prof.

Lectr.

Lectr.

Narayana, D. L., PhD And

Reader

Reader

Prakash Rao, M. S., MA And., MLitt Madr

Kamalanathan, K., MLitt Madh.

Subbaramiah, S., PhD Mys.

Rao, B. R. K., PhD Sang.

Narayan, B. K., PhD Mys.

Ragunani, A. N., MA Annam., PhD Delhi

2 Temp. Lectrs., 1 Tenure Tutor

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

#### Botany

Rao, I. M., DSc Dip German Madh.

Ramadas, V. S., MSc Delhi, DPhil Oxon

Sambasiva Rao, K. V., MSc And

Seshagiri Rao, A., MSc Madh., PhD Camb.

§Prof.

Reader

Lectr.

Lectr.

Venkateswara Naidu, M., MSc Madh.,

PhD Wils.

1 Temp. Lectr.

Lectr.

#### English

Rama Sarma, M. V., MA Nag., PhD Wales

Suryakanta, Mrs. Madduri, MA And

Krishna Rao, T., MA And.

Jayanta R. A., MA Mys.

Vijayanthan, S., MA Madh.

Vijayanga, A. S., MA Madh.

Rama Rao, S., MA PhD Nag.

1 Permanent Tutor, 1 Tenure Tutor, 1 Temp

Tutor

§Prof.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

#### Chemistry

Neelakantam, K., DIC, MA PhD

Krishnan, V. R., MA Annam., PhD Kansas

Appala Raju, N., DSc And

Suryanarayana Murthy, K., MSc And.

Adinarayana Chetty, D., MA (on leave) Lectr.

Rameshchandra Naidu, P., MA (on leave) Lectr.

Brahmaji Rao, S., MSc And., PhD Hamburg

Seshapathirao Naidu, M., PhD Annam.

4 Temp. Lectrs., 2 Tenure Demrs., 6 Temp.

Demrs

§Prof.

Reader

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

#### Geology

Chakrapani Naidu, M. G., PhD Mys

Suryanarayana, K. V., PhD Mys.

Satyannarayana Murthy, M., DSc And

Venkatachalapathy, V., MSc Mys.

(on leave) Lectr.

1 Temp. Lectr.

§Prof.

Reader

Lectr.

#### Economics

Warrier, E. K., MA Madh., MSc Lond.

§Prof.

Hindi

Singh, V. P., MA Alig., PhD Alig

§Prof.

\* Member of the Association of Universities of the British Commonwealth



Narasimhachari, S. T., PhD *Bau* Lectr. 3 Temp Lectrs, 1 Temp Demr., 3 Tenure  
Chandrabhas Rawat, MA *Lack*, PhD *Agri* Demrs.  
Lectr.

2 Temp Lectrs, 1 Temp Tutor

### History

Rama Rao, M., PhD *Modr*, BEd *And* §Prof. Pathosarathy, S, MA DipAnthropol *Modr* §Prof.  
Ramasujam, B. V., MA *Modr*, PhD *Assam* Lectr. Narayana Rao, S., MA *Bau* Lectr.  
Reader Ramaswami, P. V., MA DipAnthropol *Modr* Lectr.  
Mythili, K. L., PhD *Modr* (on leave) Lectr. Basavanna, M., MA *Myr* Lectr.  
Hari Rao, V. N., PhD *Modr* Lectr. Rama Rao, P., BSc MA *Myr* Lectr.  
Reddy, V. M., MA *Bau* Lectr. Anantakrishnan, P., MA *Modr* Lectr.  
Rajayyan, K., MA *Kerala*, MLitt *Modr* Lectr. 1 Temp. Lectr., 2 Tenure Tutors  
2 Temp. Lectrs

### Mathematics

Benerjee, D. P., DSc *Dacca* §Prof. Srikrishna Sarma, E. R., MA *Modr*,  
Subba Rao, M. V., PhD *Modr*. (on leave) Reader PhD *Martburg* §Reader  
Sitalam, K., MA *Modr*. Lectr. Gopalakrishna Iyengar, T. K., MA *Modr*. Lectr.  
Satyanarayana, M., MA *And* Lectr. Varadachari, V., PhD *Modr* Lectr.  
Maheswunulu, D. M., MA *Modr* Lectr. Subba Rao, V., PhD *Nag.*, BOL BEd *And* Lectr.  
Rao, P. S., MA *And* Lectr. 1 Tenure Tutor  
Subrahmanyam, S. S., MA *Modr*. Lectr.  
Suryanarayana, P., MA *Modr* Lectr.  
6 Temp Lectrs, 1 Tenure Tutor

### Philosophy

Parushottam, T. A., MA *Modr*, PhD *Land*. §Prof, Principal of Univ Coll  
Varadachari, K. C., PhD *Modr*. Reader  
Dasgupta, S. S., MA PhD *Nag.* (on leave) Reader  
Veeraraghavan, T. E., MA *Modr* Lectr.  
Herbert, G. S., BA *And* Lectr.  
Srinivasan, G., PhD *Myr* Lectr.

### Physics

Ramachandra Rao, S., MA DSc *Land*,  
FIP, FNI §Prof. Pampapathi Rao, K., PhD DipGerman  
Bhimasenachar, J., DSc *And*. Reader *Modr*. §Prof., Vice-Principal of Univ. Coll.  
Sreeramamurthy, K., DSc *And*. Reader Ranga Rao, S., MA LT *Modr*. Lectr.  
Sivasankara Rao, G., MSc *Bau*. Lectr. Srinivasa Reddy, R. P., BSc *Assam*. Lectr.  
Subrahmanyam, S. V., MSc *And*. Lectr. Murthy, V. S. R., MSc *And* Lectr.  
PhD *Ass* Lectr. Parvatheswara Rao, V., MA *Modr* Lectr.  
Satyanarayana, R., PhD *Bau*. (on leave) Lectr. Krishnakumaran, A., PhD *Modr* Lectr.  
Purnachandra Rao, MSc *And*, PhD *Syd*. Lectr. Raja Bai, K. G., DSc *And* Lectr.  
Ramanatham, M., MSc *Modr*. Lectr. Satyalingaswamy, K., MA *Modr*,  
Lakshman, S. V. J., DSc *And*. Lectr. PhD *Penn*. Lectr.  
2 Permanent Demrs., 1 Tenure, 2 Temp. Demrs

### Zoology

## UNIVERSITY COLLEGE OF ENGINEERING

Sp. Officer—G. Ramakrishnan, BE MSc *Mech*.

### Civil Engineering

Mohan Rao, B., PhD *Land* §Prof. Sivalinga Pillai, K., BE *Myr*. Lectr.  
Pratap Mowli, P., ME *Cole*. Reader Venkataraman, P., BE *Assam*, ME  
Krishna Murthy, M., ME Lectr. (Power Engin) Lectr.  
Venkateswara, K., BE MTech Lectr.

**Electrical Engineering**

Maharaja, K. K., BSc Bau	Lectr.
Gopala Reddy, I., BE MTech	Lectr.
Kuppurajulu, A., ME	Lectr.
Rameshchandra Raju, D., BSc Agra, ME	Lectr.

**Mechanical Engineering**

Ramakrishnan, G., BE MSc Mch.	§Prof., Sp. Officer
Sundaramuthy, S., BE Annam, MTech	Lectr.
Narayana Reddy, K., BE And., ME	Lectr.
Rangaswami, T., ME	Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Univ. Engineer. T. Srinivasa Mudali, BA BE Adviser on Phys. Educn. L. K. Govindaswami, BA BL Med. Officer. S. Radhakrishnan, MB BS Warden, Univ. Hostels. T. A. Purushottam, MA MEd., PhD Lond., Dep. Warden. B. V. Ramaswamy, MA MEd., PhD Annam Asst. Librarian P. S. Pattnaik, MA DupLab	
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**AFFILIATED COLLEGES**

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for Pre-Univ., BA, etc.]

**Arts and Science Colleges**

ANANTAPUR, Govt. Arts College. Pre-Univ., BA, BSc. Principal—T. R. Deendiyal, MA LLT. 114 Teachers.	MADANAPALLE, Benart Theosophical College. Pre-Univ., BA, BSc, BCom. Principal—S. N. Sharma, PhD DLitt. 31 Teachers.
CHITTOOR, Govt. Arts & Science College. Pre-Univ., BA. Principal—K. V. V. Subba Raju, BCom. 19 Teachers.	NELLORE, V.R. College. Pre-Univ., BA, BSc. Principal—R. Subba Reddy, MA BEd. 93 Teachers.
CUDDAPOH, Govt. Arts College. Pre-Univ., BA, BSc. Principal—S. Raghavachari, MA BT. 76 Teachers.	THIRUPATI, S.P. College for Women. Pre-Univ., BA, BSc. Principal—Miss K. Rajeswari Murthy, MA MEd. 38 Teachers.
KAVALI, Kanak College. Pre-Univ., BA, BSc, BCom. Principal—S. V. Bhuganarayana Sarma, BA. 40 Teachers.	THIRUPATI, S.V. College for Men. Pre-Univ., Pre-Professional in Agric., Vet. Sci., BA, BCom. Principal—N. Rama Rao, MA BEd. 72 Teachers.
KURNOOL, K.V. Reddy Govt. College for Women. Pre-Univ., BA, BSc. Principal— . . . 30 Teachers.	THIRUPATI, S.V. College for Music & Dance. BMus, Sangitika Visarada Title in Music, Natya Visarada Title in Dancing. Visiting Prof.—P. Samba Moorthy, BA BL. 11 Teachers.
KURNOOL, Qaimona College. Pre-Univ., BA, BSc. Principal—M. Anwarul Haq, MA MLitt. 58 Teachers.	

**Training Colleges**

KURNOOL, Govt. Training College. BEd, MEd. Principal—B. Lakshminarayana Rao, MA BEd. 17 Teachers.	NELLORE, Govt. Training College. BEd. Principal—S. Gopalakrishnaiah, DSc MEd. 15 Teachers.
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**Engineering College**

ANANTAPUR, College of Engineering. BE. Principal—V. V. L. Rao, DIC, BE. 48 Teachers

**Medical Colleges**

KURNOOL, Kurnoor Medical College. MB BS, MD, MS, MSc, DLO, DO, DCH, DCP, DGO. Principal—K. Ramesh Pai, MB MS, FRCS. 87 Teachers.	THIRUPATI, S.V. Medical College. MB BS. Principal—C. Venkatasubrahmanyam, MB BS MSc. 16 Teachers.
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## Veterinary College

THIRUPATI, *Andhra Veterinary College*. BVSc. Principal—P. S. Rajulu, BVSc MS. 39 Teachers.

## ORIENTAL COLLEGES

KURNOOL, *Liluvaa Arabic College*. Afzal-ul-Ulman, Adib-i-Fazil, Tahib-i-Kamil. Principal—Moulvi Alhaj Syed Zahurulh Hussaini Sahab. 9 Teachers.

NELLORE, *Veda and Sanskrit College*. Vidwan. Principal—U. Subbaramaiah. 8 Teachers.

RAYACHODI, *Jayaga Mahaswamiya Arabic College*. Munshi-i-Fazil. Vice-Principal—M. S. Abbas. 4 Teachers.

THIRUPATI, *Sri Venkateswara Oriental College*. Suromani, Vidwan. Principal—N. Rama Rao, MA BEd. 13 Teachers.

## GENERAL INFORMATION

The univ. was establd in Sept 1954 as a teaching and residential univ. It is now also affiliating, its jurisdiction extending over the districts of Anantapur, Cuddapah, Kurnool, Chittoor and Nellore in the state of Andhra Pradesh.

The univ. derives its name from the deity Lord Venkateswara, nr. whose shrine it is located.

In the Univ. College of Arts & Scis., Tirupati, courses are provided in univ. depts. of Arabic, Persian & Urdu, bot., chem., econ., Engl., geol., Hindi, hist., maths., philos., phys., psychol., Sanskrit, Telugu and zool., leading to pass, post-grad. and res. degrees.

The Univ. Coll. of Engin., Tirupati, was started in 1959 and provides instrum. for BE degree.

**CONSTITUTION.** The chancellor is pres. of the senate, the supreme governing body of the univ. Executive powers are vested in the syndicate, of which the vice-chancellor is chairman. Other authorities of the univ. are the academic council, the facs. and the bds. of studies.

**INCOME (1959-60)** Rs. 6,359,730 (govt. grants, Rs. 3,171,500; fees, Rs. 752,602; other sources, Rs. 2,435,627).

**FACULTIES AND DEANS.** Agric., ... ; arts, Principal T. A. Purushottam (philos.); com. & ... , engin., Prof. G. Ramakrishnan (mech. engin.), *See arts*, B. Gopala Reddy; med., Principal C. Venkateswaram; *oriental learning*, Prof. P. Lakshminantham, (Telugu), *sci.*, Prof. S. Ramachandra Rao (phys.); *teaching*, Principal S. Gopalakrishnamoorthy; *vet. sci.*, Principal S. P. Rajulu.

**LIBRARY.** Univ. library, 40,087 vols.

**LABORATORIES.** The sci. depts. have been moved into new lab. bldgs. Extns. to labs. are being completed.

**TEACHING HOSPITAL.** Kurnool General H., Kurnool, for grad. courses in med.

**ADMISSION.** Candidates passing the matric. exam. of the univ. or secondary sch. leaving cert. exam. conducted by the state govt. or any exam.

recog. as equivalent thereto are eligible for admission to the pre-univ. course of study, Sangita Viswada title course in music and Nattya Viswada title course in dancing. Successful candidates in the pre-univ. exam. and higher secondary sch. leaving cert. exam. conducted by the state govt. are admitted to pre-professl. courses, leading to professl. degrees, and also to the 3-yr. courses for BA, BSc, BCom, BMus. For admission to music and dance courses students should have taken music or dance as a sub.-of study in the qualifying exam.

**FIRST DEGREES.** BA, BSc, BCom, BMus—3 yrs. after pre-univ., BE—3 yrs. after pre-univ.; BVSc—4 yrs. after pre-professl., MB BS—6 yrs. after pre-univ. Pre-professl. is taken 1 yr. after pre-univ.

In evening courses: BA—4 yrs. after pre-univ.; pre-univ.—2 yrs. after matric.

**HIGHER DEGREES.** BEd, 1 yr. after 1st degree; MEd, 1 yr. after BEd; MA (by efflux of time without any further exam.) after BA (hons.) and BSc (hons.), MA, MSc, 2 yrs. after BA, BSc, MD, MS, MSc, 2 yrs. after MB BS, PhD, 2 yrs. after MA, MSc; DLitt, DSc, 2 yrs. after PhD.

**HONORARY DEGREES.** LL.D, DSc, DLitt.

**DIPLOMAS.** Postgrad. dipls. in med. & surg.; DLO, DCH, DCP, DGO, DO—1 yr. after MB BS.

**ORIENTAL TITLES.** Afzal-ul-Ulman, Adib-i-Fazil, Tahib-i-Kamil, Munshi-i-Fazil, Suromani and Vidwan—4 yrs. after prescribed entrance test or matric.

Sangita Viswada title in music and Nattya Viswada title in dance—4 yrs. after matric. or its equivalent.

**RESEARCH.** PhD degree (common to arts & sci.) may be taken in Arabic, Persian & Urdu, bot., chem., econ., Engl., geol., Hindi, hist., maths., philos., phys., psychol., Sanskrit, Telugu and zool. DLitt (on the arts side) and DSc (on the sci. side) may be taken by submitting theses 2 yrs. after having qualified for PhD. The univ.

maintains a res. inst. for sp. study and res. in indology.

**STUDY LEAVE.** The syndicate may grant study leave to teachers of the Univ or send them on deputation on occasion arises on such terms as may seem necessary in each case.

**FEES.** Postgrad courses, Rs 240 p a, pass courses, Rs 186 p a, res. courses, Rs 120 p a.

**ACADEMIC YEAR.** June to April, 3 terms. June 15 to Sept 7, Sept 24 to Dec. 20, Jan 2 to April 8.

**LANGUAGE OF INSTRUCTION** at present is English.

**SCHOLARSHIPS.** Maintenance allowance of Rs. 25 p m granted to eligible students of 3-yr. degree courses in addition to the fee concessions granted by the Univ and govt. 2 studentships each of value of Rs 50 p m available in each of the Telugu and Sanskrit depts. and one studentship

each in the remaining depts. In addition, one full-fee scholp. or 2 half-fee scholps. available in each dept. Except in cases where U.G.C. provides res. scholps each dept. is allotted one res. scholp. of monthly value of Rs. 50 in 1st yr., Rs. 80 in 2nd yr and Rs. 100 in 3rd yr. Besides these, endowment scholps. also available for students of pass, postgrad and res. courses.

**STUDENT RESIDENCE.** Univ. hostel, consisting of 6 blocks, has accomm. for 560 students.

**STAFF RESIDENCES.** Six staff quarters for profs of the Univ. 12 quarters each for readers and lectrs.

**PUBLICATIONS.** *Laws of the Univ* (1960); *Annual Report*, *College Magazine*, *Oriental Journal*, *College Calendar*, *Registered Graduates List*, *Minutes*.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** *Blodge completed*, and phase of phys and nat sci labs, vice-chancellor's quarters; health centre. *Approaching completion* quarters for 25 staff, arts block.

**RESIGNATIONS.** B N Yugandhar (econ), to undergo I.A.S. trg.; S A. R. Bokhari (Arabic, Persian & Urdu), apptd lectr at Madr.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	8191	54
Women	942	1
Total	9133	55

**Distribution by Faculties.** *Agric.*, 150; *arts*, 3896; *comm.*, 240; *educn*, 255; *engin*, 821;

*five arts*, 28, *med.*, 542, *oriental learning*, 141; *sci*, 2736; *sci sci*, 359. Total: 9183.

*Included in the figures above are —*

Pre-University students, 3209.  
Pre-Professional students, 369  
Postgraduate students, 455  
New admissions, 5678  
Students from other countries, nil

**DEGREES AWARDED (1960-61).** *Arts* BA, 818  
BA hon., 58; MA, 42, MA hon., 9 *Comm*  
BCom, 67, *Educn*, BEd, 155. *Engin*: BE, 95  
*Sci*: BSc, 152, BSc hon., 30, MSc, 14  
MPhil, 2. *Vet sci*: BVSc, 28. Total number of  
first degrees awarded, 1160

**CERTIFICATES AWARDED (1960-61)** *Inter*, 80;  
*pte-Univ.*, 1050, *pre-professl.*, 350.

**ORIENTAL TITLES AWARDED (1960-61).** 25.

# UTKAL UNIVERSITY\*

Founded 1943

Postal Address: Vani Vihar, P.O. Utkal University, Bhubaneswar, Dist. Puri, Orissa, India

Cables and Telegrams: University, Bhubaneswar

Telephone (Registers) Bhubaneswar 542

CHANCELLOR—Y. N. SURYANARAYAN, MA LLB Camb.

PRO-CHANCELLOR—PANDIT N. DAS, MA DLitt

VICE-CHANCELLOR—Col. Commandant P. P. PARIJA, OBE, MA Camb., DSc Patna & Utkal, FNI

REGISTRAR—G. C. RATH, MA Madras, DipLibSc

DEPUTY REGISTRAR—D. P. BARAI, MA DipEd

## UNIVERSITY TEACHING DEPARTMENTS

{†=Part-Time, §=Attached to Ravenshaw College, Cuttack}

<b>Anthropology</b>		<b>Political Science §</b>	
Aiyappan, A., MA PhD Lond. 2 Lectrs.	Prof.	Rao, K. V., MA DLitt 2 Lectrs.	Reader
<b>Commerce</b>		<b>Psychology §</b>	
.. ..		Rath, R., MA PhD Lond. Dra, J. P., MA PhD Lond 2 Lectrs.	Prof. Reader
<b>Geology §</b>		<b>Rural Economics and Sociology</b>	
Dey, A. K., DIC, PhD Lond. Satapathy, N., DSc And. 6 Lectrs.	Prof. Reader	Mitra, B., MA PhD Lond.	Prof.
<b>History §</b>		<b>Sanskrit</b>	
Das, M. N., MA PhD Lond. Mukherjee, P., MA 2 Lectrs.	Reader Reader	Pradham, P., MA Swain, A., MA PhD Harv. 2 Lectrs.	Prof. Reader
<b>Modern European Languages</b>		<b>Statistics §</b>	
Sinha Ray, P., DipLibSc Calcutta, MA DipFrench	Lectr.-in-Charge	Das, S. C., MA 2 Lectrs.	Prof.
<b>Philosophy</b>		<b>Zoology</b>	
Mitra, G., MA PhD Lond. 3 Lectrs.	Prof.	Behura, B., MSc PhD Lond Kanungo, M., MSc PhD Calcutta	Prof. Reader

## COLLEGES OF THE UNIVERSITY

[LLB, BSc(Engin), etc., after the name of a coll. means that courses are provided there for LLB, BSc(Engin), etc.]

CUTTACK, Madhusudan Law College (transferred to Univ. by Govt. of Orissa in 1949). LLB Prof of Law—K. Satyanarayanan Murthy, BA Madras & And., ML Madras. 1 Lectr., 6 Lectrs.†

SAMBALPUR, University College of Engineering, Burla (founded 1956) (tel.: Burla 11A). Principal—B. Mohapatra, MSc Tor., BE Calcutta—S. Puri, MSc PhD Lond., Reader; CIVIL ENGR.—

\* Member of the Association of Universities of the British Commonwealth

C. A. Subramanyam, BE, Reader, ELECTN. ENGIN  
—S. K. Basu, MEE Conv., Reader, MATHS—  
J. N. Panda, MSc, Reader, MICH. ENGIN.—B

Mohapatra, MSc Tor, BE, Prof., PHYS.—B. B.  
Banerjee, MSc Calc., Reader. 50 Lectrs.

## AFFILIATED COLLEGES

ANGUL (DHENKANAL), *Gout Training College* (founded 1953) BEd Principal & Admin. Officer—S. Nath, MA Lowd Teaching staff. S. Das, DipEd Patna, MA and 7 other Lectrs.

ANGUL, *Intenmediate Science College* (1958) BSc. Principal & Admin. Officer—C. M. Basu, MSc Teaching staff incl.—M. Zaffarullah, MSc 8 other Lectrs.

BALASORE, *Fakir Mohan College* (1944) (tel. Balasore 18) BA, BSc Principal & Admin. Officer—S. V. Ramayya, MA Teaching staff incl.—L. M. Sircar, MSc; CHEM.—K. C. Dash, MSc, ECON.—S. V. Ramayya, MA, ENGL.—B. K. Sainpathy, MA; HINDI—S. N. S. Yadav, MA, HIST.—B. M. Das, MA, MATHS—M. Das, MA; PHILOS.—G. B. Kanungo, MA PhD Clue, PHYS.—P. C. Das, MSc; SANSK. AND ORISA—B. Jena, MA; ZOOL.—Principal M. A. John, MA 15 other Lectrs.

BALASORE, *Women's College* Principal & Admin. Officer—K. C. Das, MA 6 other Lectrs.

BARPADA (MATURBHANG), *Maharaja Parua Chandra College* (1948) (tel. Barpada 24) BA, BSc Principal & Admin. Officer—J. Mohanty, MA Teaching staff. BOT.—S. N. Mitra, MSc, CHEM.—B. Sahoo, MSc, ECON.—C. V. Ramayya, MA; ENGL.—T. E. Jayaraman, MA; HIST.—J. Pattnaik, MA; MATHS—S. N. Sengupta, MA; PHYS.—B. B. Swain, MSc; SANSK.—R. M. Mohapatra, MA, ORISA—B. Rout, MA, ZOOL.—U. C. Panda, MSc; LOGIC—S. K. Nanda, MA, HINDI—C. S. K. Jena, MA 17 other Lectrs.

BERHAMPUR (GANJAM), *Gout Women's College* (1958) BA Principal & Admin. Officer—Miss Rama Deo, MA 6 other Lectrs.

BERHAMPUR (GANJAM), *Khandiote College* (1878) (tel. Berhampur 67) BA, BSc, BCom. Principal & Admin. Officer—N. Padhi, MA Calc., LT *Madri*, Teaching staff. CHEM.—P. V. Jagannadha Row, MSc BEd, COMM.—G. Panda, MCom; ECON.—N. Padhi, MA Calc., LT *Madri*; ENGL.—S. Krishna, MA, HIST.—M. Basistone, MA; MATHS.—K. N. Sundarasan, BA *And*; PHILOS.—C. Subramaniam, BA *And*; PHYS.—K. V. Iyer, BA *Madri*; SANSK. AND ORISA—C. M. Das, MA; TELUGU—V. N. Sastri, HINDI—M. Bharti 24 other Lectrs.

BHADRAK (BALASORE), *Bhadra College* (1948) BSc, BA Principal & Admin. Officer—B. Saha, MA Teaching staff CHEM.—B. Mohapatra, MSc; ECON.—S. Mohanty, MA, ENGL.—M. Radhakrishna, MA, HIST.—S. K. Ray Choudhury, MA; HINDI—R. Singh, MA; LOGIC—A. K. Nandi, MA, MATHS.—S. P. Mohanty,

MA, PHYS.—K. T. Rao, MSc, SANSK.—F. N. Banerjee, MA, ORISA—K. C. Behera, MA, URDU—M. A. Kakori, MA, BOT.—A. M. Mitra, MSc; ZOOL.—R. C. Sahoo, MSc; COMM.—T. B. Saha, MCom. 54 other Lectrs.

BIJANAGAR, *Bhanganagar College* BA, Principal & Admin. Officer—K. V. K. Rao, MA, 9 other Lectrs.

BRUBANESWAR, *Bhat Jagabandhu Bidyadhar College* (1957) BSc Principal & Admin. Officer—R. C. Rajguru, MSc. Teaching staff: BIOL.—B. Nayak, MSc, CHEM.—C. Nanda, MSc, ECON.—S. N. Mishra, MA, ENGL.—D. K. Roy, MA; HIST.—P. K. Pattnaik, MA; MATHS.—U. Mahapatra, MA, ORISA—B. Mohanty, MA; PHILOS.—K. P. Mishra, MA, PHYS.—R. L. Banerji, MSc. 23 other Lectrs.

BRUBANESWAR (ORISSA), *Utkal Krushi Mahavidyalaya* (1954) BAg Principal—D. Mishra, BAg Nag, DipAgric Camb Teaching staff: AGRIC. ECON.—H. K. Das Gupta, MSc(Ag), AGRIC. ENGIN.—J. Padhi, BSc(AgEng), AGRIC. EXTN.—L. Mishra, BSc(Ag) MS *Madras*, ECON.—B. Mishra, AM MA; AGRON.—B. N. Sahu, MS PhD *Mich.*; ANIMAL HUSB.—U. C. Pattnaik, MSc(Ag), BOT.—B. Parua, MSc Calc., PhD *Durk.*; CHEM.—P. C. Ghosh, MSc; ENGL.—B. Sahu, MA, HORTIC.—S. N. Bhow, MSc(Hort) *Calif.*, BScAg, NYCOL.—N. N. Mohanty, MSc (Ag); PHYS.—A. K. Mahapatra, MSc, VET. SCI.—P. K. Harichandan, BVSc; ZOOL.—G. C. Sengupta, BSc(Ag) 23 other Lectrs.

BOLANGIR (BOLANGIR PATNA), *Rajendra College* (1943). ICom, BA Principal & Admin. Officer—D. N. Dutt, MA BL Teaching staff: COMM.—R. K. Sahany, MACom LLB, ECON.—P. K. Pati, MA, ENGL.—B. J. B. Mohapatra, MA, HIST.—J. K. Dwivedi, MA, MATHS.—M. K. Wadikhaya, MSc, ORISA—K. M. Mohapatra, MA, PHILOS.—A. Manasa, MA; SANSK.—Pdt S. Das Sharma. 4 other Lectrs.

CUTTACK, *Banki College* BA, BSc. Principal & Admin. Officer—D. Panigrahi, MA.

CUTTACK, *Christ College* (1944) (tel. Cuttack 213) BA. Principal & Admin. Officer—S. R. Mukherjee, MA Teaching staff: ECON.—V. Subbramanyam, MA, ENGL.—S. R. Banerji, MA; HIST.—S. C. Behera, MA; MATHS.—M. N. Ray, MSc; ORISA—S. Das, MA DipEdn *Patna*; PHILOS.—S. R. Mukherjee, MA, SANSK.—R. Surangi, MA; HINDI—S. C. Nanda, MA; PHYS.—V. V. Rao, MSc; CHEM.—A. C. Rath, MSc; BIOL.—M. B. Prabhakar, MSc 33 other Lectrs.

CUTTACK, *Kandrapuri* (1960) BA Principal & Admin Officer—B Pradhan, MA

CUTTACK, *Rathbani Training College* (1927) (tel : Cuttack 275) BEd Principal & Admin. Officer—B N Rathi, MA Lond 5 other Lectrs.

CUTTACK, *Ravenshaw College* (1868) (tel : Cuttack 56) IA, ISc, ICom, BA and BSc (pass and hona), MA, MSc. Principal & Admin. Officer—B Samantdas, DIC, Ph.D Lond, MSc BLA. Teaching staff: BENGALI—V. N. Mukherjee, MA, 1st—B. Samantdas, DIC, BL MSc Ph.D Lond; CHEM.—D. Patra, DIC, MSc Ph.D Lond; COM.—P. C. Roy, MA; ECON.—D. C. Mishra, AM Ph.D Harv., MA; EDUC.—R. N. Mohanty, MA; ENGL.—A. P. O'Brien, MA BL Ph.D Cal., 1900—M. M. Hassan, MA Alg., MEd Paris, 1900—A. K. Dey, DIC, Ph.D Lond; HITT.—P. Mukherjee, MA DipEd; HINDI—H. M. P. Srivastava, MA; MATH.—R. N. Mohanty, MSc Ph.D Lond; ORIA AND BANGL.—K. B. Tripathy, MA BL Ph.D Lond; PHYS.—S. K. Chakraborty, MA, 1913—B. Misra, MSc Ph.D Lond; POL. SCI.—S. C. Dash, DPhil Belf., MA LL.B., 1900—R. Rathi, MA Ph.D Lond; STATS.—S. C. Das, MA; URDU AND PERSIAN—S. M. Hassan, MA MEd, 1900—B. Behara, MSc Ph.D Lond. 110 other Profs and Lectrs.

CUTTACK, *Sankalpa Women's College* (1915) (tel : Cuttack 264) BA Lady Principal & Admin Officer—Miss Premalata Behara, MA. Teaching staff: BENGALI—Miss Renu Ghosh, MA, 1900. 2nd.—Basant Mohapatra, BA DipEd, ECON.—Miss Dehabala Ray, MA, 1900—Miss Urmila Das, MA; HIST.—Mrs. U. Ray, MA; HINDI—Mrs. Malati Upadhyaya, MA, MATHE.—P. Devi, MA; ORIA—Miss Santilata Behara, MA; PHYSIO.—Mrs. Uma Misra, MA, 1900—Mrs. Soma Roy, MA. 9 other Lectrs.

CUTTACK, *Sri Ramesh Chandra Bhow Medical College* (1949) (tel : Cuttack 239). MB BS. Principal & Admin Officer—R. N. Sahu, MB BS, MRCP, MRCP. Teaching staff: ANATOMY—G. Mohapatra, MB BS DA, ANAT.—S. C. Basu, MB BS MSc, DENTAL SURG.—G. Patra, DENT. AND THROAT—G. N. Das, MB BS DLO, 1900—G. P. Mohanty, MB DTM&H DCP Lond., PhD; MED.—R. N. Sahu, MB BS Patna, MRCP, MRCP; MIDW.—Mrs. Jyotsna Devi, MB BS, OPHTHALMOLOGY—M. C. Mishra, MB BS DOMS; PATHOLOGY—A. M. Tripathy, PhD Belf., DMR Med., MB BS, FRCPSci Glas; PHARM.—K. N. Ojha, MD PhD, PHYSIOLOGY—R. K. Das, MB BS Ph.D Lond; RADIOLOGY—G. B. Mohanty, MB BS DMRD; SKIN AND VENEREAL DISEASES—K. C. Sahu, MB BS DPH Lond., DCH Dub., DTM&H Lond., 1900. AND PSYCH. MED.—R. G. Panigrahi, MB BS DPH Cal., MPH Harv., DTM&H Lond; 1900—G. S. Dasgupta, MB Patna, FRCS Ed. 56 other Profs, Asst. Profs and Lectrs.

CUTTACK, *St. Xavier's Science College* (1944) (tel : Cuttack 268) ISc. Principal & Admin. Officer

—S. M. Das, MSc. Teaching staff: CHEM.—S. K. Mukherjee, 1900—N. K. Pujahari, MA; MATH.—S. M. Das; ORIA—R. N. Dasgupta, MA; PHYS.—K. N. Ghoshal, MSc. 18 other Lectrs.

DHANKANAL, *Dhankanal College* BA, Principal & Admin Officer—R. K. Maia, MA 7 other Lectrs.

JAIPUR (CUTTACK), *Narasingha Choudhury College* (1946) IA Principal & Admin Officer—T. C. Nandi, MA 17 other Lectrs.

JEPPIA (KORAPUT), *Vishwa Deb College* (1947). IA, ISc. Principal & Admin Officer—P. N. Chatterjee, MSc DPhil 15 Lectrs.

KALAHANDI, *Kalahandi Science College* BSc Principal & Admin. Officer—S. P. Mishra, MSc. 8 other Lectrs.

KRONGHAR, *Intermediate Science College* (1957) ISc Principal & Admin Officer—C. S. Murty, MSc. 27 other Lectrs.

ORISSA, *College of Veterinary Science and Animal Husbandry* (1955). BVSc&AH. Principal & Admin Officer—B. N. Patra, BSc. Teaching staff: ANAT.—J. N. Prusty; ANIMAL HUSB.—K. N. Mahapatra; BACTERIOLOGY—Das; PLO.—P. D. Das, MSc, 1900—B. B. Mohanty, MAT. MED. AND THERAPEUTICS—A. Mishra, BVSc; MED.—S. K. Mishra, BVSc, PHYSIO.—N. Patra, 1900—B. N. Patra. 29 other Lectrs and Interns.

PANDELRIMEDI (JANJANA), *Sri Krishna Chandra Gopalan College* (1886) BA, ISc. Principal & Admin Officer—K. P. A. Pillai, MA. Teaching staff: BOT.—S. P. Das, MSc; CHEM.—B. P. Das, MSc, ECON.—N. Mohapatra, ENGL.—B. K. Tripathy, MA, 1913—B. M. Das, MA, MATHE.—K. N. Ali, MSc; ORIA—S. Hota, MA; LOGIC—R. N. Bhattacharya, MA; ZOOL.—S. Pati, MSc, PHYS.—S. Panda, MSc; HINDI—K. Prasad, MA 8 other Lectrs.

PHULBANI, *Gouti Science College* BSc Principal & Admin Officer—D. Misra, MSc DPhil.

PURI, *Khurda College*, Khurda. Principal & Admin. Officer—M. Mohapatra, MA.

PURI, *Mahila College* BA Principal & Admin Officer—K. M. Dey, MA.

PURI, *Nayagarh College* BA, BSc Principal & Admin Officer—G. C. Patra, MA 12 other Lectrs.

PURA, *Sankar Chandra Sekhar College* (1944) (tel : Pura 55). BA, ISc. Principal & Admin. Officer—D. Misra, MA Patna, AM Cal., Ph.D. Teaching staff: BOT.—K. L. Patra, MSc; CHEM.—K. Senapati, MSc; ECON.—K. P. Nigam, MA, ENGL.—S. S. Das, MA; HITT.—U. C. Mishra, MA; MATH.—S. N. Das, MA; ORIA AND BANGL.—G. B. Das, MA Lond., 1913—H. L. Debnath, MA; PHYS.—S. K. Roy, MSc, 1900. 1900—C. Das, MA; 1900—N. Mahapatra, MSc. 54 other Lectrs.

PURI, *Science College*, Nishakpur. BSc Principal & Admin. Officer—G. Parthasarathy, MSc.

SAMBALPUR, *Berks Medical College* (1959) MB BS, Principal & Admin. Officer—R N Mishra, MB BS, FRCS Teaching staff ANAT.—S B Hazari, MB BS, EAR, NOSE AND THROAT—G. Bhora, MB BS, GYNACOL. AND OBSTET.—S. Panda, MD BS, JUISEP.—K C Tripathy, MB BS, MED.—C. N. Nanda, MD BS; OPHTHALMO.—B Rajguru, PATHOL.—G P Mohanty, MB BS PhD DTM&H DCP; PHARM.—J K Mahanty, MD ChB NZ., MB BS, PHYSIOL.—R N Sen, MB BS DPhil, PRE-MED.—A. Sahu, MB BS DPH 7 other Lectrs

SAMBALPUR, *Gangadhar Meher College* (1944) (tel. Sambalpur 13) BA, BCom, BSc Offg Principal & Admin. Officer—B Mishra, AM Col, MS *Math.*, MSc Teaching staff BOT—S Nayak, MSc, CHEM.—S. S. Nath, MSc, COMM.—S N Jena, MCom, ECON.—P K Puri, MA, ENGL.—S. Sahu, MA, MATHS.—P C. Patil, MSc, ORIYA—D. Bhoi, MA, PRELOS.—P. Rath, MA,

PHYS.—J. Mohapatra, MSc; ZOOL.—K I Veighese, MSc PhD 38 Asst Profs and Lectrs  
SAMBALPUR, *Panchayot College, Barangah* BA, BSc Principal & Admin. Officer—P C Bhatnagar, MS *Phil.*, MSc 22 other Lectrs.

SAMBALPUR, *Women's College* (1950). 1A Principal & Admin. Officer—Miss Asha Mittal, MA BT, 5 other Lectrs.

SUNDARGARH, *Inter-mediate Science College* (1958) BSc. Principal & Admin. Officer—K. S. R. Murthy, MSc PhD Comb. 22 other Lectrs

SUNDARGARH, *Regional Engineering College* BSc(Eng) Principal & Admin. Officer—B Behara, MS Iowa, BSc BSc(Eng) 20 other Lectrs

SUNDARGARH, *Science College, Rourkella* BSc Principal & Admin. Officer—P K. Das, MSc 6 other Lectrs

## GENERAL INFORMATION

After the separation of Orissa from Bihar and the creation of a new province of Orissa in April 1936 there was a strong desire among the leaders of the province for the estab. of a sep. univ. in Orissa. In 1942 a comm. was formed, with Pandit Godaviah Mura, then Minister of Education, Orissa, as president, to frame and draft the univ. bill, which, after being passed in the Orissa legislative assembly, received the assent of the governor of Orissa on Nov. 23, 1943. From that date Utkal Univ. came into being under the Utkal Univ. Act, 1943 (Orissa Act XIII of 1943).

CONSTITUTION. The univ. authorities are: the senate, the supreme governing body of the univ.; the syndicate, the univ. executive body; the academic council, which deals with academic matters only; and the metric bd. Other statutory bodies are the facs. and bds. of studies

INCOME (1960-61) Total Rs 4,712,825

FACULTIES AND DEANS. Agric., Dr B. N. Sahu; arts, Dr A. B. Mohanty; com., Dr. D. C. Mishra; educn., M. C. Pradhan; engg., Principal B. Behara; law, Hon. Justice H. Mohapatra; med., K. N. Mishra, scs., Principal B. Samantaram, vet. scs. & animal husb., Dr. G. Biswal.

UNIVERSITY PREMISES. The univ. moved in 1962 from Cuttack to its new campus at Bhubaneswar. Construction work has been completed on the arts block, hostels, staff quarters, and work is in progress on other bldgs. Burdwan House, with about 2 acres of land, was purchased by the univ. from the Mahasayadhar of Burdwan and the univ. library and Orissa encyclopaedia are located there. All postgrad. depts. are located on the campus. Steps have been taken to construct bldgs. for the M.S. Law Coll. and hostels of the univ. near the present library bldgs.

LIBRARY 40,800 vols, 5000 periodicals, 1350 calendars, prospectuses, etc., of other univs., 1201 palm-leaf MSS

ADMISSION TO UNIV. inter. courses is by one of the following exams recog. as equivalent to the former metric exam of the univ.: metric exam, or equivalent, of any univ. in India constituted by an act of provincial or central legislature, S.S.L.C. exam conducted by Madras and Andhra S.S.L.C. bds., exam. for Indian army sp. cert. of educn.; Indian air force metric test, higher educn. test of Indian navy, at sch. cert. exam. of govt. of Ceylon, or Cambridge sch. cert. exam.; high sch. exam. of bd. of sec. educn., Madhya Bharat, Gwalior; S.S.L.C. exam. of sec. educn. bd., Mysore; high sch. exam. of bd. of high sch. and inter. educn., Rajputana, Bombay sec. sch. cert. exam., of sec. sch. cert. exam. bd. of govt. of Bombay, high sch. exam. of bd. of high sch. and inter. educn., Uttar Pradesh, Allahabad; Vidya Vinodan exam. with advanced Engl. and maths. of Prayag Mahila Vidyapeeth, Allahabad; high sch. exam. of central bd. of sec. educn., Ajmer, British civil services commission forces prelim. exam., sec. sch. exam. of the Bihar sch. exam. bd., Patna, sch. final exam. of the bd. of sec. educn., W. Bengal.

FIRST DEGREE. 3 yrs.—BA pass, BA hon., BSc pass, BSc hon., BCom, BSc(Eng), BA ag., 3-yr. degree course started from 1960-61; 4 yrs.—BVSoc; 5 yrs.—MB BS. B.O.L. no teaching provision made; exam. open to eligible private candidates who are teachers.

HIGHER DEGREE. 2 yr.—BED, 2 yr.—MA, MSc (after BSc), MEd, LL.M., LL.M. (for private candidates only), by thesis only—PhD, DLitt, DSc.

MA may be taken in econ., Engl., hist., maths.,



Oriya, phlos., Sansk. Postgrad. classes have also been started in anthropol., hist., pol. sci., psychol., stats. MSc may be taken in bot., chem., geol. & mineral, maths., phys., zool.

**DIPLOMA** Mod. European langs. (French & German), 2 yrs.; stats., foreign affairs, 1 yr.

**CERTIFICATE** Mod. European langs. (French & German), 1 yr.

**RESEARCH** In order to promote study and res. in different branches of knowledge the senate has constituted a Jean Vignat Parashad for giving monetary aid for schemes of res. submitted by teachers of the univ.

**COLLEGE FEES** (per month). Inter. (arts and comm.), Rs. 8; inter. (sci.), Rs. 9; BA pass, Rs. 9; BA hon., Rs. 10; BSc pass, Rs. 10; BSc hon., Rs. 11; BCom, Rs. 9; LLB (pt. I), Rs. 14; LLB (pt. II), Rs. 14; MA, Rs. 12; MSc, Rs. 14; dipl. and cert. in French and German, Rs. 5 per subj.

**ACADEMIC YEAR** July to April. 2 terms. Term dates (approx.) July 16 to Dec. 21; Jan. 2 to April 30.

The usual LANGUAGE OF INSTRUCTION is English.

**EXTENSION LECTURES** The univ. invites specialists to address the staff and students. The lectures are both general and specialized and are sometimes delivered in affiliated colls.

**RESIDENCE** 38 hostels, providing accomm. for 2008 men and women. Fees vary according to

hostel. Also 2 hostels for M.S. Law Coll. with accomm. for 51 students, both hostels directly under control and management of the univ.

**ATHLETIC FACILITIES.** Intercollegiate games and sports organized by citie. apptd. by syndicate.

**STUDENTS' INFORMATION BUREAU** Furnishes information to students regarding Indian & foreign univs. and other educal. instns. and helps grads. to secure admission to univs., etc., in foreign countries.

**WORLD UNIVERSITY SERVICE BRANCH** The objects of the branch are: mutual help, mutual educn. and mutual understanding. Monetary help is rendered to needy students for exam. fees, purchase of books and also treatment in TB sanatorium. Two hostels, 1 for men and 1 for women, have been establd.

**NATIONAL CADET CORPS.** 1st Orissa battalion, N.C.C., has 1 sr. div. for colls. in Cuttack and 9 jr. divs. for other univ. colls.

**PUBLICATIONS.** Annual. *Calendar* (vol. I, Rs. 5; vol. II, Rs. 7); *Financial Estimate* (free); *Annual Report* (free); *Bams. Syllabus* (various prices). Occasional. *Regulations* (Rs. 2.8); *Statutes* (Rs. 2.8); *Text Books* (various prices).

**UNIVERSITY PRESS.** In 1949 the Maharaja of Mayurbhanj gifted the entire Mayurbhanj state press and press bldg. to the univ. The press is managed by a citie. constituted by the syndicate and is located at Cuttack.

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	13,959	—
Women	1,794	—
Total	15,663	—

Distribution by Faculties, etc. Agric., 543; arts, 6,410; comm., 321; educn., 207; engin., 668; law, 168; med., 903; sci., 5,067; stat. sci. & animal husb., 276. Total 15,663.

Included in the figures above are:—

Postgraduate students, 1039.

New Admissions, 6,276.

Students from other countries, 10. (Country from which largest number came: Singapore, 4).

**DEGREES AWARDED (1960-61).** BA, 828; BA hon., 187; BSc, 186; BSc hon., 79; BCom, 138; BOL, 2; LLB, 66; MBBS, 28; BAg, 38; BVS, 32; BSc(Eng), 86; MEd, 10; MA, 153; MSc, 22; PhD (all facs.): 3.

# VIKRAM UNIVERSITY\*

Founded 1957

Postal Address : University Road, Ujjain, Madhya Pradesh, India

Cables and Telegrams : University, Ujjain

Telephones : Registrar, Ujjain 299, General, Ujjain 30

CHANCELLOR—H. V. PAFSARAB, BA LLB, Governor of Madhya Pradesh

VICE-CHANCELLOR—G. L. DATTA, MA PhD

ACTING REGISTRAR—V. SHANKARAN, MA

TREASURER—L. B. SETHI

## UNIVERSITY TEACHING STAFF

(University Schools of Studies)

### Ancient Indian History and Culture

Gyani, S. D., MA PhD

Reader, Hd of Univ. Sch.

Mittal, A. C., MA PhD

Reader

Roy, B. P., MA

Lectr

### Library Science

Banerjee, P. K., MA DipLibSc

Lectr., Hd of Univ. Sch.

Bhargava, G. D., MA DipLibSc

Lectr

Agarwal, S. L., MA DipLibSc

Lectr

### Mathematics and Statistics

Ramchandran, R., MSc PhD

Lectr., Hd of Univ. Sch.

Jokhan Singh, MSc

Lectr.

### Botany

Mal, L. P., MSc PhD

Reader

Das, R. R., MSc PhD

Lectr.

Karank, C. R., MSc PhD

Lectr

### Physics

Gogate, D. V., MSc PhD

Prof., Hd. of Univ. Sch.

### Chemistry

Bhagwat, W. V., DSc

Prof., Hd of Univ. Sch.

Dubey, V. S., MSc PhD

Reader

Shrivastava, B. D., MSc

Lectr

### Geology

Chatterjee, S. C., DSc, FNI

Prof., Hd of Univ. Sch.

Shrivastava, S. K., MSc

Lectr

Subbairao, S., MSc

Lectr

### Zoology

Har Swaroop, DPhil Oxon., MSc PhD

Prof., Hd. of Univ. Sch.

Jain, P. N., MSc

Lectr

Jagdish Bhadani, MSc DPhil

Lectr

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar: Admin—V. M. Desai, MA;

Accts.—... Exams—V. Shankaran, MA;

Devel.—B. R. B. Mathur, MA L.T. Statistical

Officer: G. S. Gautam, MA MCom Accounts

Officer: B. L. Sharma, BSc LLB. Curator:

S. D. Gyani, MA PhD. Univ. Engineer: H. S.

Shrivastava. Press Manager: G. P. Shukla, MA

Asst. Librarian: N. N. Passi, MA MLabSc.

## CONSTITUENT COLLEGES

(†=Part-Time; BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.)

BHOPAL, Govt. *Hawdha College of Arts and Commerce* (tel. 41) Founded 1946, managed by govt. BA, BCom, MA, MCom, LLB; PhD and DLitt (in arts & comm.). Principal & Hd, Dept of Econ.—P. C. Malhotra, MA. Hds. of Depts: ARABIC—O. I. Mohammad Arab, MA,

\* Member of the Association of Universities of the British Commonwealth

Prof; COMM—S. R. Pathak, MCom PhD, Prof; ENGL—R. Verma, MA PhD, Prof; GEOG—K. N. Verma, MA PhD, Asst Prof; HINDI—S. N. Upadhyaya, MA, Prof; HIST—K. S. Lal, MA PhD, Prof; LAW—P. L. Shrivastava, BA LL.M, Sr Lectr; POL SCI—R. P. Pandey, MA PhD, Prof; SANSK—P. N. Kawathekar, MA PhD, Asst Prof; URDU—G. C. Jain, MA PhD, Prof. Other staff: 11 Asst. Profs., 29 Lectrs., 2 Lectrs.

**BHOPAL, Gandhi Medical College** (tel.: 369). F. 1955; govt MB BS, MS, MD. Dean—R. P. Singh, MB MS Hds. of Depts: ANAT.—K. N. Bhargava, MB MS, Prof; RESURG MED.—P. L. Tandon, MD BS, Prof; MSD—S. M. Misra, MD BS, Prof; OBSTET AND GYNACOL.—Mrs. M. K. Lokre, MD BS, Prof; OPHTHALMOLOGY—Santokh Singh, MB MS DO, Prof; PHARMACOL.—S. S. Gupta, MD BS, Prof; PHYSIO.—Narendrasingh, MD BS, Prof; SOC. AND PREV. MED.—S. L. Dubey, MB BS DPH, Asst Prof; SURG.—M. Kumar, MB MS, FRCS, Prof. Other staff: 3 Asst. Profs., 14 Lectrs., 11 Demos, 1 Tutor, 2 Registrars.

**BHOPAL, Medical Vidyut Mahavidyalaya**. F. 1961; govt BSc, MSc, PhD and DSc (in sci). Principal—M. S. Rao, MSc PhD. Hds. of Depts.: CHEM—H. P. Agrawal, MSc PhD, Prof; MATHS—P. R. Khandekar, MSc, Prof; PHYS.—B. R. Sen, DIC, MSc PhD Lond, Prof. Other staff: 10 Asst. Profs., 22 Lectrs.

**BHOPAL, Postgraduate Basic Training College** (tel.: 328). F. 1955; govt BEd(Basic), MEd, PhD (in educa.). Principal—T. B. Nair, MA PhD, FRAT. Other staff: 3 Profs., 8 Lectrs., 1 Phys. Tig. Instr., 4 Instrs.

**Dewas, Postgraduate Basic Training College** (tel.: 5). F. 1949; govt BEd(Basic), MEd, PhD, DLitt. Principal—Mrs. Florence Chaudhari, MA MD Ohio, DipAdmin Wash, MA BT MEd LLB. Other staff: 3 Asst. Profs., 6 Lectrs., 2 Instrs., 3 Teachers.

**GWALIOR, College of Agriculture** (tel.: 307). F. 1959; govt BSc(Agric), MSc(Agric), PhD (in agric). Principal—R. S. Bhatt, MSc(Agric) PhD Hds. of Depts.: AGRIC. CHEM.—D. P. Motiramani, PhD Jil, MSc(Agric), Prof; AGRIC. EXTENSION—D. K. Sharma, MSc(Agric) MA(Econ), Prof; ANON.—B. P. Mishra, MSc(Agric), Prof; BOT.—S. K. Singh Gaur, MSc(Agric) LLB, Prof; ENTOMOL.—O. S. Bindra, MSc(Agric) PhD, Prof; SOC.—L. Joshi, MSc(Agric), Prof. Other staff: 3 Jr. Profs., 22 Lectrs., 2 Instrs., 2 Sr. Demos, 2 Demos.

**GWALIOR, Ganga Raja Medical College** (tel.: 568). F. 1946; govt MB BS, MD, MS, DMRE, DGO, DPH. Principal & Hd., Dept. of SURG.—B. N. Balakrishna Rao, BSc MB BS, FRCS. Profs., Hds. of Depts.: ANAT.—I. P. Agrawal, BSc MB MS, JURIS—P. Narayan, MD, MEd.—P. N. Laha, MD, MRCP; OBSTET. AND GYNACOL.—Mrs. Indra N. Bhonsle, MD BS, OPHTHALMOLOGY—A. H. Fudausi, MB BS Luck, LO Med., DO Oron.; PATHOL. AND

BACTERIOL.—B. P. Saxena, MD PhD; PHARMACOL.—S. L. Agrawal, MD; PHYSIOL.—N. P. Benawari, MD, RADOL.—K. C. Majumdar, MB BS DMR, SOC. AND PREV. MED.—C. M. S. Siddhi, MD DPH. Other staff: 11 Asst. Profs., 7 Readers, 26 Lectrs., 25 Demos, 3 Asst. Surgeons, 3 Registrars, 1 Health Officer.

**GWALIOR, Gout Science College** (tel.: 690). F. 1961; govt BSc, MSc; PhD and DSc (in sci). Principal & Hd., Dept. of ZOOL.—S. S. Saxena, MSc PhD Hds. of Depts.: CHEM.—R. P. Kaushal, PhD DSc, Prof; MATHS.—P. N. Vagayavigna, MSc BT, Prof; PHYS.—A. P. Saxena, MSc PhD, Prof. Other staff: 17 Asst. Profs., 51 Lectrs.

**GWALIOR, Mohan Lal College of Arts and Commerce** (tel.: 442). F. 1890; govt. BA, BCom, MA, MCom, LLB; PhD and DLitt (in arts & comm). Principal—M. N. Kaul, MA LLB. Hds. of Depts.: ECON.—V. S. Shrivastava, MA LLB, Prof; ENGL.—C. S. Trivedi, BA, Prof; GEOG.—M. A. Qureshi, MSc, Prof; HINDI—B. B. Masra, MA PhD, Offg. Prof; HIST.—I. S. Mehta, MA, Offg. Prof; LAW—G. C. Keshri, JSD Can., MA LL.M, Prof; POL. SCI.—P. N. Mathur, MA PhD, Prof; SANSK.—P. D. Agnihotri, MA BT PhD, Offg. Prof. Other staff: 14 Asst. Profs., 31 Lectrs., 4 Lectrs. †, 1 Phys. Instr.

**INDORE, Christian College** (tel.: 6623). F. 1884; private BA, MA, LLB. Principal—C. W. David, MA Hds. of Depts.: ECON.—S. G. Pathi, MA LLB, Prof; ENGL.—V. J. Isadass, MA, Prof; HINDI—T. U. Pathak, MA, Prof; HIST.—L. Solomon, MA, Prof; LAW—A. G. Athale, BA LL.M, Prof; PHILOS.—C. P. Brahmo, MA LLB PhD, Prof; POL. SCI.—J. A. L. Nozha, MA LLB, Prof; SANSK.—D. G. Sapre, MA, Prof; SOCIO.—C. M. Abraham, MA LLB, Prof. Other staff: 2 Profs. †, 6 Asst. Profs., 11 Lectrs., 2 Lectrs. †, 2 Field Supervisors.

**INDORE, Gout Arts and Commerce College** (tel.: 5028). F. 1961; govt BA, BCom, MA, MCom, LLB; PhD and DLitt (in arts & comm). Principal—G. N. Tandon, MA. Hds. of Depts.: COMM.—A. G. Sharma, MA BCom, Asst. Prof; ECON.—R. K. Yanday, MA LLB BCom, Prof; ENGL.—K. K. Kemcar, MA PhD, Prof; HINDI—D. K. Jain, MA PhD, Asst. Prof; HIST.—D. Bhamu, MA PhD, Prof; LAW—P. P. Pandit, BSc LLB, Prof; MATHS.—S. G. Walimbe, MA, Asst. Prof; PHILOS.—B. L. Nigam, MA LLB, Asst. Prof; POL. SCI.—J. P. Dube, MA LLB, Prof; SANSK.—R. L. Agnihotri, MA, Asst. Prof. Other staff: 1 Emer. Prof., 3 Profs. †, 12 Asst. Profs., 28 Lectrs., 1 Lectr. †.

**INDORE, Holkar College of Science** (tel.: 6074). F. 1891; govt BSc, MSc; PhD and DSc (in sci). Principal & Hd., Dept. of CHEM.—W. V. Bhagwat, DSc. Hds. of Depts.: BOT.—D. W. Kharanagar, MSc, Asst. Prof; ENGL.—L. B. Deshpande, MA, Asst. Prof; MATHS.—Lallusingh, MSc, Prof; PHYS.—S. D. Chaudhary, MSc, Prof.

Other staff : 1 Emer Prof., 14 Asst. Profs., 69 Lectrs.

**INDORE, Mahatma Gandhi Memorial Medical College** (tel. 7075) F 1948, govt MB BS, MD, MS, DCH, TDD, DOMS Dean & Hd, Dept of PHARMACOL.—B. C. Bose, MD DSc Hds of Depts : ANAT.—L. Bhargava, MB MS, Prof.; MED.—Akbarali, MB BS DCH, MRCP, Prof.; OBSTET AND GYNACOL.—B. N. Jungwal, MD BS, Prof.; OPHTHALMOL.—B. K. Dha, MB MS DOMS, Prof.; P.A.D.—J. M. Pohowalla, MD BS DCH, MRCP, Prof.; PATHOL.—M. M. Arora, MD, Prof.; PHYSIOL.—R. B. Mathani, MD BS, Prof.; PURE AND SOC. MED.—M. C. Mittal, MD Agre, MPH Haru, Prof.; SURG.—B. B. Ohi, MB MS, FRCS, Prof. Other staff : 1 Prof., 12 Asst. Profs., 10 Readers, 28 Lectrs., 1 Lectr.-f., 25 Demos., 2 Registrars.

**INDORE, P. M. B. Gajwan College** (tel.: 6143) F 1958, private BA (for working men), BSc, BCom, MCom, MSc. Principal & Hd, Dept. of MATHE.—K. N. Wani, MSc Hds of Depts : BOT.—R. M. Patel, MSc, Jr. Prof., CHEM.—S. G. Khandekar, MSc, Jr. Prof., COASM.—L. D. Gokhale, MCom LLB, Jr. Prof.; PHYS.—V. S. Shah, MSc, Jr. Prof.; ZOOL.—N. R. Amin, MSc, Jr. Prof. Other staff : 45 Lectrs., 2 Lectrs.-f., 7 Demos., 1 Phys. Instr.

**MHOW, M.P. College of Veterinary Science and Animal Husbandry** (tel. 22) F 1955, govt. BVSc&AH, MVSc. Principal—R. L. Kaushal, MS. Hds of Depts : ANAT. AND SURG.—M. R. Patel, BSc(Vet) BSc, Prof.; ANIMAL HUSB.—C. M. Taylor, BSc(Vet), MRCVS, Prof.; MED.—J. P. Patel, BSc(Vet), Prof.; OBSTET AND GYNACOL.—G. M. Karmadkar, Prof.; PATHOL. AND BACTERIOL.—C. N. Pandit, BSc(Vet), FRCVSc, AND BIOCHEM.—J. S. Khurana, MS DVM Jdch, LLB, Prof. Other staff : 8 Asst. Profs., 2 Lectrs., 16 Demos., 1 Stenochemist, 1 Phys. Instr.

**SAGUR, Rafi Ahmad Khatun Agriculture College** (tel.: 27) F 1955, govt. BSc(Agr), MSc (Agr) Principal & Hd, Dept. of ZOOL. AND ENTOMOL.—M. L. Parohit, BSc(Agr) PhD. Hds of Depts : AGRIC. BOT.—T. C. Shukla, MSc(Agr), Prof., AGRIC. CHEM.—V. B. Rangekar, MSc(Agr) PhD, Prof.; AGRIC. ECON.—V. P. Shukla, BSc(Agr) MA(Econ) LLB MS III, Prof., AGRON.—R. P. Agrawal, MS III, MSc (Agr), Prof., ENTOMOL.—R. R. Rawat, BSc (Agr) PhD, Prof. Other staff : 3 Sr Lectrs., 18 Lectrs., 3 Demos.

**UJJAIN, Madhav College** (tel. 89) F. 1897, univ. (management and control of coll. transferred to univ. by M.P. govt for 5 yrs from 1958) BA, BSc, BCom, MA, MSc, MCom, LLB, PhD (in arts, comm. & sci.) Principal—Shrimangal Singh, MA DLitt Hds of Depts : CHEM.—H. N. Sharma, MSc PhD, Offg Prof., COASM.—G. P. Gupta, MCom PhD, Prof., DRAWING—C. H. Khadilkar, AM, Jr. Prof., ECON.—V. D. Nagar, MA PhD, Prof., HUSB.—D. S. Muley, MA PhD, Prof.; JEWELL.—G. P. Tandon, MA, Prof., LAW—R. S. Vidyarthi, BA LLB, Prof.; PHILOS.—S. N. L. Shrivastava, MA PhD, Prof.; POL. SCI.—Prakashchandra, MA PhD, Prof.; SANSK.—V. Venkateshram, MA, Prof. Other staff : 10 Asst. Profs., 46 Lectrs., 3 Lectrs.-f.

**UJJAIN, Postgraduate Basic Training College** (tel. 180) F. 1957, govt BEd(Basic), MED, PhD (in Educn.), Principal—. Other staff : 2 Profs., 1 Asst. Prof., 6 Lectrs.

**VIDISHA, S.S.L. Yash College** F. 1957, private. BA, BSc, MA, LLB. Principal—Raghunath Singh, MSc. Hds of Depts : ENGL.—K. C. Nair, MA, Prof., LAW—B. K. Phadnis, BSc LLB, Prof. Other staff : 11 Jr. Profs., 3 Lectrs.

## AFFILIATED COLLEGES

**ADOKHAN, Shri Sarawati Degree College.** Founded 1962. BA. Principal—

**AMBI, Degree College** F 1959. BA. Principal—R. S. Sharma, MA L.T. Other staff : 6 Lectrs., 1 Lectr.-f.

**BANALI, Govt. Degree College** (tel. 15) F. 1961, govt. BA, BSc. Principal—S. D. Saxena, MA MSc PhD Other staff : 14 Asst. Profs., 2 Lectrs., 1 Phys. Trng Instr.

**BARWANI, Govt. Degree College** (tel. 15) F. 1957, govt. BA, BSc, BCom. Principal—S. L. Sharma, MA LLB BCom. Other staff : 9 Asst. Profs., 13 Lectrs.

**BEIND, Govt. Degree College** (tel.: 72). F. 1958, govt. BA, BSc, BCom. Principal—H. B. Saxena, MSc. Other staff : 11 Asst. Profs., 17 Lectrs.

**BHOPAL, Mahanadi Laxmibai Girls' College** (tel. 404) F 1958, govt BA, BSc. Principal—Mrs. Vasalakshi John, MA. Other staff : 16 Asst. Profs., 13 Lectrs., 3 Demos.

**BHOPAL, Maulana Azad College of Technology** (tel. 350) F 1960, private. BSc(Engg) (5 yrs' integrated course) Principal—J. N. Moosigill, BA BSc(Engg), MIE(India). Other staff : 3 Profs., 5 Asst. Profs., 19 Lectrs., 2 Lectrs.-f., 2 Demos.

**BHOPAL, Saifa Degree College** (tel.: 417) F. 1959, private. BA, BSc, BCom. Principal—S. A. Ali, MA MCom Calc., PhD. Other staff : 2 Asst. Profs., 20 Lectrs.

**DERWA, Govt. Degree College** (tel.: 62) F. 1958, govt. BA, BSc, BCom. Principal—K. L. Shrivastava, MA LLB PhD. Other staff : 10 Asst. Profs., 13 Lectrs.

DISAR, *Anand College* (tel. 49). F 1957; govt. BA, BSc, BCom Principal—B N Lamin, MA LT Other staff. 11 Asst. Profs., 18 Lectrs.

GUNA, *Govt. Degree College* (tel. 41) F. 1957; govt. BA, BSc, BCom Principal—Other staff. 10 Asst. Profs., 16 Lectrs.

GWALIOR, *Kamla Raja Girls' College* (tel. 447) F. 1939; govt. BA, BSc. Principal—Mrs Uma Johri, MA LT. Other staff. 17 Asst. Profs., 13 Lectrs.

GWALIOR, *Lalashubhai College of Physical Education* (tel. 186) F. 1957; govt. BPE (bachelor of phys. educn.). Principal—P. M. Joseph, MEd DPed. Other staff. 1 Asst. Prof., 14 Lectrs., 1 Admin. Officer.

GWALIOR, *Madhav Engineering College* (tel. 949). F. 1957, private. BSc(Engg). Principal—K. S. Rame, BE Bcom, BSc(Eng) Lond, MIE (India). Other staff. 1 Prof., 7 Readers, 26 Lectrs.

GWALIOR, *Parvathai Gokhale Vajyan Mahavidyalaya* F. 1961, private BSc Principal—G. S. Datar, MA Other staff. 5 Jr Profs., 7 Lectrs., 1 Phys. Dir.

GWALIOR, *Parigedants Bani Training College* (tel. 954). F. 1960, govt. BEd(Basic). Principal—C. P. Varma, MA LT Other staff. 2 Profs., 4 Lectrs., 2 Vocational Guidance Lectrs., 4 Instrs.

GWALIOR (LASHKAN), *Madhav Mahavidyalaya* (tel. 447) F. 1957; private. BA, BCom Principal—S. G. Kumbh, MA. Other staff. 9 Jr Profs., 8 Lectrs.

INDORE, *College of Agriculture*. F. 1961; govt. BSc(Agr). Principal—H. P. Dwivedi. Other staff. 11 Lectrs.

INDORE, *College of Dentistry* (tel. 7071). F. 1961, govt. BDS Principal—Staff. 1 Prof., 2 Lectrs., 2 Demrs.

INDORE, *College of Nursing* F. 1960; govt. BSc(Nursing) Principal—Miss S. P. Rathnani, MSc MEd BRE Other staff. 7 Profs., 3 Asst. Profs., 2 Readers, 8 Lectrs., 2 Med. Officers, 3 other Officers.

INDORE, *Girls' Degree College* (tel. 7087). F. 1956; govt. BA, BSc Principal—Miss Indu Mehra, MA LLB Other staff. 9 Asst. Profs., 6 Asst. Asst. Profs., 11 Lectrs.

INDORE, *Govt. Sanskrit College* (tel. 3069). F. 1961; govt. BA(Classics). Principal—P. K. Modi, MA LLB Other staff. 1 Asst. Prof., 4 Lectrs.

INDORE, *Shri Govindan Saksarna Technological Institute* (tel. 7622). F. 1958; private. BSc(Engg) Principal—Staff: 4 Profs., 8 Asst. Profs., 17 Lectrs., 12 Asst. Lectrs., 1 Jr Lectr., 9 Instrs., 1 Workshop Supt.

JABUA, *Govt. Degree College* (tel. 20) F. 1951; govt. BA, BSc, BCom Principal—G. W.

Kaveshwar, MA LLB. Other staff. 7 Asst. Profs., 8 Lectrs.

JHAJHA, *Govt. Degree College* F. 1960, govt. BA, BSc Principal—S. N. Bapna, MA Other staff. 7 Asst. Profs., 7 Lectrs.

KHARAGONE, *Govt. Degree College* F. 1959; govt. BA, BSc, BCom Principal—Narayan Singh, MSc Other staff. 11 Asst. Profs., 10 Lectrs., 1 Phys. Trg. Instr.

MANDSAUR, *Govt. Degree College* (tel. 73) F. 1957; govt. BA, BSc, BCom Principal—B. Shrivastava, MA. Other staff. 12 Asst. Profs., 15 Lectrs., 6 Demrs.

MUNOW, *Govt. Degree College* F. 1958, govt. BA, BSc, BCom Principal—S. C. Chakravarti, MSc Ph.D. Other staff. 11 Asst. Profs., 13 Lectrs.

MORNA, *GP Degree College* F. 1956; private. BA, BSc, BCom. Principal—T. P. Bapna, MA LT Other staff. 6 Jr Profs., 8 Lectrs.

NERUCH, *Govt. Degree College* (tel. 113) F. 1959; govt. BA, BSc, BCom Principal—B. C. Shukla, MCom LLB Ph.D. Other staff. 9 Asst. Profs., 13 Lectrs.

RAJGARH (BIAORA), *Govt. Vakramaditya College* (tel. 13). F. 1958; govt. BA, BSc, BCom. Principal—P. C. Joshi, MA LLB B.A. Other staff. 9 Asst. Profs., 9 Lectrs.

RATIPURA, *Govt. Degree College* F. 1959; govt. BSc, BCom. Principal—G. P. Pandey, MSc DPhil Other staff. 6 Asst. Profs., 9 Lectrs., 1 Phys. Trg. Instr.

RATLAM, *Govt. Degree College* (tel. 149) F. 1956; govt. BA, BSc, BCom. Principal—A. N. Gupta, MA. Other staff. 13 Asst. Profs., 24 Lectrs.

SERHON, *Govt. Degree College* (tel. 40). F. 1958; govt. BA, BSc. Principal—K. N. Nanda, MA. Other staff. 8 Asst. Profs., 11 Lectrs.

SHAJAPUR, *Govt. Degree College* (tel. 27) F. 1959, govt. BA, BSc, BCom. Principal—K. C. Bhandari, MCom LLB Ph.D. Other staff. 9 Asst. Profs., 3 Lectrs.

SHIVPURI, *Govt. Degree College* (tel. 1) F. 1959; govt. BA, BSc. Principal—G. Vyasa, MA Ph.D. Other staff. 9 Asst. Profs., 1 Lectr.

UJJAIN, *Govt. Girls' Degree College* (tel. 166) F. 1959, govt. BA, BSc. Principal—Miss Pramila Indurkar, DPed Lond., MA LLB. Other staff. 12 Asst. Profs., 5 Lectrs.

VIDISHA, *Sarwat Ahoik Technological Institute* (tel. 36). F. 1960, private. BSc(Engg) Principal—V. V. Naidu, BE. Other staff. 3 Profs., 6 Lectrs., 2 Lectrs., 5 Asst. Lectrs.

## GENERAL INFORMATION

An act establishing Vikram Univ. as a federal univ. with headquarters at Ujjain, an ancient seat of learning, came into force in 1957 following the creation of the new state of Madhya Pradesh. The univ. is an affiliating and teaching type instn., teaching being carried out in the constituent and affiliated colls. as well as in univ. schs. of studies. The univ. has postgrad. univ. schs. of studies in maths, phys., stats and anc. Indian hist. & culture at Ujjain, chem. at Indore, bot. & zool. at Gwalior and geol. at Bhopal; also postgrad. classes, under univ. management, in Madhav Coll., Ujjain.

Univ. jurisdiction extends over the districts of Bhand, Dewas, Dhar, Guna, Gwalior, Indore, Jabalpur, Mandla, Morena, Raipur, Rajgarh, Ratlam, Sehore, Shajapur, Shivpuri, Ujjain, Vadaha, and W. Nimar (Kharagone), in Madhya Pradesh.

**CONSTITUTION** The main univ. authorities are senate, syndicate, academic council, facs. and bds. of studies. Senate is the supreme body and univ. statutes and ordinances are subject to its approval. The syndicate is the exec. body controlling day-to-day admin. The bds. of studies report to the facs., the facs. to the academic council, and the academic council to the syndicate. All other bodies report to the syndicate.

**INCOME (1960-61)** Total income, Rs. 2,57,484 (incl. recurring grants, Rs. 1,57,531; sp. grants, Rs. 100,000; fees, Rs. 822,668; affiliation & annual fees from colls., Rs. 60,610).

**FACULTIES AND DEANS (1961-62)** *Agric.*, Principal R. S. Bhat; *arts*, Principal C. W. David; *comm.*, Prof. G. P. Gupta; *educn.*, Principal (Mrs.) Florence Choudhary; *engin.*, Principal J. N. Moudgill; *law*, B. S. John; *med.*, Principal B. N. Balakrishna Rao; *phys. educn.*, Principal P. M. Joseph; *sci.*, Principal S. S. Savana; *vet. sci. and animal husb.*, Principal R. L. Kumbhar.

**UNIVERSITY PERINCINT** During the 3rd 5-yr. plan period, the following bldgs. are to be constructed at Ujjain on the univ. campus: permanent admin. bldg., senate hall, guest house, hostels for men & women; bldgs. for univ. schs. of studies will be completed by end of 1962; construction of lib. and univ. press bldgs. also started.

**LIBRARY.** 13,800 vols.

SCINDIA ORIENTAL INSTITUTE, Ujjain. Transferred to univ. management 1960, by govt. of Madhya Pradesh. Anc. Sansk. and Pal. MSS.; facilities for res. in sec. culture and civilization, indol., and other oriental langs.

**ADMISSION.** Students who have passed the higher sec. or pre-univ. exam. of any Indian univ. or statutory bd. or any other equivalent exam. are eligible for admission to the 3-yr. degree course in arts, comm. or sci. The following are eligible for admission to professl. courses—*agric.*, those who have passed inter. sci. (*agric.*); *engin.*, 4-yr. course—those who have passed inter. sci. with chem., maths and phys. or 1st-yr. sci. course of the 3-yr. degree course in the same subjs.; 5-yr. integrated course—those who have passed higher sec. exam. with chem., maths and phys.; *med. and vet. sci.*, those who have passed inter. sci. with bot., chem. and phys. or 1st-yr. sci. course of the 3-yr. degree course in the same subjs.

**FIRST DEGREE** BA (Classics), BA, BSc, BCom (3 yrs.), MB BS (5 yrs.), BSc (Agriculture) (2 yrs.), BSc (Engg.) (4 yrs., integrated course 5 yrs.), BVSc&AH (4 yrs.), BPE (phys. educn.), BSc (Nursing), BDS (3 yrs.); BEd (1 yr.), LLB (2 yrs.)

**HIGHER DEGREE** MEd, 1 yr.; MA, MSc, MCom, LLM, MD, MS, MSc (Agriculture), MVSc&AH, 2 yrs. each; PhD, DSc, D Litt.

**DIPLOMAS** 1 yr. postgrad.: DCH, TDD, DOMS, DMRE, DGO, DipLabSc, DSW.

**PRIVATE CANDIDATES** Non-collegiate women candidates who reside within the territorial jurisdiction of the univ. and teachers or librarians of recog. educn. instns. within the jurisdiction of the univ. may appear privately for the exams. of BA, BCom, MA, MCom and MSc (maths.). Law teachers of colls. affiliated to the univ. may appear for LL.M. exams.

**STUDY LEAVE** is accorded, but there is no fixed rule.

**FEES** Tuition fee for students in univ. schs. of studies, Rs. 144 p.a.

**ACADEMIC YEAR** July 1–June 30.

**USUAL LANGUAGES OF INSTRUCTION.** English and Hindi.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS** The univ. awards fixed no. of schols. in each fac. to limited no. of meritorious students.

**PUBLICATIONS.** The Vikram (quarterly res. journal), *Prospectus and Syllabus* for each fac., *Calendar*, *Annual Report*.

**UNIVERSITY PRESS** was establd. in 1961. For manager, see 'Admin. and Other Staff', above.

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	17,218	810
Women	2,852	5
Total	20,070	815

Distribution by Faculties. *Agric.*, 338, *arts*, 7950, *comm*, 2649; *educn*, 432, *engin*, 1507, *law*, 1047, *med*, 1640, *phys educn*, 111, *sci.*, 4203, *vet. sci.* & *animal husk.*, 298.

Included in the figures above are —

Intermediate and Pre-University students, nil.

Postgraduate students, 2758

New admissions, 7476

Students from other countries, 16. (Countries from which largest numbers came: Nepal, 7, Malaya, 4, E Africa, 3)

DEGREES AWARDED (1960-61) BA, 1929, MA, 660, PhD, 1, DLitt, 1, BSc, 327; MSc, 174, BCom, 505; MCom, 158, BSc(Agr), 87, MSc(Agr), 52, BEd, 414, MEd, 21, BSc (Engg), 89; BPh, 18, BVSc&AH, 34, LLB, 234, MB BS, 202, MD, 15; MS, 12.

DIPLOMAS AWARDED (1960-61) DipLibSc, 27; DCH, 7, DMRE, 6; DSW, 3.

# VISVA-BHARATI

Founded 1951, previously established 1921

Postal Address: P.O. Santiniketan, District Burdham, West Bengal, India

Cables and Telegrams: Visvabharati, Santiniketan

Telephones: Bolpur 21 and 22

VICEROY—THE PRESIDENT OF THE REPUBLIC OF INDIA (ex officio)

REGENT—THE GOVERNOR OF WEST BENGAL (ex officio)

CHANCELLOR—J. NEHRU, MA LL.D. Cemb., Prime Minister of the Republic of India

VICE-CHANCELLOR—S. R. DAS, MA

HON. TREASURER—D. N. MITRA

REGISTRAR— . . . .

LIBRARIAN—B. K. DATTA, MA D.Phil. Calc.

## TEACHING STAFF

<b>Arabic, Persian and Islamic Studies</b>		
Ali, S. M., PhD Bonn	Reader	
<b>Arts and Crafts</b>		
Dev Burman, D. K.	Reader	
Bose, R.	Lectr.	
Bose, R.	Lectr.	
Perumal, A.	Lectr.	
Choudhury, Mrs. Gouri B.	Lectr.	
Mitra, S.	Lectr.	
<b>Bengali and other Modern Indian Languages</b>		
Sen, P. C., MA	Prof.	
...	Reader	
Das, U. K., MA	Lectr.	
Raha, A. V., MA	Lectr.	
Gupta, B. B., MA	Lectr.	
Ghosh, Miss Nalini, MA	Lectr.	
Bandyopadhyay, S. N., MA Calc.	Lectr.	
Mukherjee, S., MA Calc.	Lectr.	
Roy, S. N., MA	Lectr.	
Banerji Bhattacharya, D. C., MA PhD	Lectr.	
<b>Chinese</b>		
Tim Yun-Shan	Prof.	
Wei Kwei-Sun, PhD	Lectr.	
Tsao, A., BCom Calc., Shao-Shih Natul.		
Peking	(on leave) Lectr.	
Mukherji, S. K.	Lectr.	
Sen, N. C., MCom	Lectr.	
<b>Economics and Politics</b>		
Mukherji, K., MA DPhil Calc.	Prof.	
Das Gupta, S., MA	Lectr.	
<b>Saba, S., MA</b>		
<b>Majumdar, A., MA</b>		
<b>Sinha Roy, M., MA</b>		
<b>Gupta, A. K., MA</b>		
<b>Education</b>		
Sarkar, S. C., MA BT	Reader	
Mukherjee, H. B., MA BT DPhil	Lectr.	
Rai, J. G., BT Med Patna	Lectr.	
Das Gupta, N. K., MSc Calc	Lectr.	
Chakrabarty, P., MA BT Calc., PhD	Lectr.	
De, J. -K., MA BT Calc	Lectr.	
<b>English and other Modern European Languages</b>		
Ghose, S. K., MA DPhil Calc	(on leave) Reader	
Datta, H. N., MA	Lectr.	
Dutta, K. F., MA DPhil LLB	Lectr.	
Sen, M. K., DPhil Calc., MA	Lectr.	
Roy, Mrs. Asha, MA	Lectr.	
Chatterji, S., MA Calc.	Lectr.	
De, N., MA Calc.	Lectr.	
Choudhuri, J. K., MA	Lectr.	
<b>Geography, see Sci</b>		
<b>Hindi</b>		
Tamara, R. S., MA DPhil All.	Prof.	
Tiwari, R., MA	Lectr.	
Sharma Nath, MA DPhil Calc.	Lectr.	
Biswas, Miss Kamika, MA PhD Ban.	(on leave) Lectr.	
Sen Gupta, Miss Rama, MA	Lectr.	
Gupta, S., MA	Lectr.	



**History**

Chatterjee, S., MA PhD  
 Ray, S. C., MA  
 Bose, S. K., MA  
 Ghose, Miss Uma, MA  
 Sarker, K. K., DU Pavia, MA  
 Banerjee, H. K., MA  
 Lahiri, A., MA

Prof.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Philosophy and Religion**

Bhattacharya, K., MA PhD Calc.  
 Ray, B. G., MA  
 Venkatasubramanian, K., MA DLitt  
 Sen Gupta, S. C., MA PhD Lond  
 Chakraverty, S. C., MA Dacca  
 Roy, P. K., MA

Prof.  
 Reader  
 Reader  
 Reader  
 Lectr.  
 Lectr.

**Indo-Tibetan Studies**

Chhamed, R.  
 Pathak, S. K., MA

Reader  
 (on leave) Lectr.

**Japanese**

Kanagata, S., DLitt

Lectr.

**Mathematics**

Ghosh, P. K., MA  
 Sen Gupta, K., MSc

(on leave) Lectr.  
 Lectr.

**Music, Classical, see also Rabindra Music**

Bharya Chaudhuri, S. K., BA  
 Wazirwar, V. V.  
 Banerjee, A. C.

Reader  
 Lectr.  
 Lectr.

**Oriya**

Pattanayak, D. P., MA PhD  
 Misra, N. N., MA PhD

Lectr.  
 Lectr.

**Persian, see Arabic****Politics, see Econ. and Pol.****Rabindra Music and Dance**

Ghose, S.  
 Purohit, Mrs. Isna, PhD Bowr.  
 Nasr, P. H.  
 Banerjee, Mrs. Kamika  
 Palit, B. N.  
 Bural, N. C.

Reader  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Sanskrit, Pali and Prakrit**

Bhattacharya, S., MA PhD Lond.,  
 DLitt Lille  
 Chakravarti, N., MA  
 Bhattacharya, S., Sastri  
 Mallik, M., MA  
 Pantul, M. M., MA  
 Chatterji, K., MA  
 Bhattacharya, B., MA PhD

Prof.  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Science (including Geography)**

Das Gupta, P. C., MSc Calc.  
 Bhattacharya, D., BA  
 Sanjiv, J., MSc Calc.  
 Mitra, A. K., MA

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Asst Registrars: B. Basu, MA (Academic),  
 S. Sen, BA (Admin.) Accts Officer: S. C. Das,  
 MA. Cusator, Rabindra-Sadana: M. Bapna,  
 MA LLB. Proctor: R. S. Tomar, MA DPhil.  
 Lectr., Phys. Educn.: Lt. S. N. Choudhury,  
 BSc. Med. Officer: S. C. Mukherjee. Dir.,

Rural Reconstrucn. Dept.: D. Roy, Dir.,  
 Publicns Dept.: G. C. Sen, Editor, *Viveka-  
 Bhavata Quarterly*, H. N. Datta, MA Calc. Dir.,  
 Agro Econ. Res. Centre: G. C. Mandal, MA  
 DPhil Calc.

**CONSTITUENT INSTITUTIONS**

(Postal address and telephone number are the same as for the Univ., unless otherwise stated)

**CHINA-BHAVANA** (Inst. of Sino-Indian studies and res.). Seeks to revive the old cultural links between India and China. Sino- and Japanese studies form the main work of this section. It provides a 2-yr. course for a cert. of proficiency in Chinese, followed by a further 1-yr. dipl. course in the same lang. The courses are open to students of postgrad. and undergrad. classes of Viveka-Bharati, students preparing for the foreign and defence services, or any other person recommended by the principal of a constituent coll. of Viveka-Bharati.

**HINDI-BHAVANA** (Inst. of Hindi studies and res.). Organizes teaching of Hindi in the other

constituent instns., in addn. to undertaking original res. in Hindi lang. and lit.

**KALA-BHAVANA** (coll. of fine arts and crafts) (Founded 1919). Owes its inspiration to the artistic renaissance in Bengal under the guiding spirit of Acharya Abanindranath Tagore and Dr. Nandalal Bose. Trg is provided for (1) 2-yr. cert. course in artistic handicrafts, and (2) post-matric. 4-yr. dipl. course in fine arts and crafts. Subjs.: drawing, painting, modelling, sculpture, etching, wood- and linocut, fresco-painting and design-drawing, embroidery, batik and artistic leather-work. Museum, library and exhibition hall. Principal—B. Bose.

PALLI-SAMGATHANA VIDYAYA (rural reconstruction, dept.) (F 1922), P. O. Santiniketan, District Birbhum, W. Bengal, India (tel. Bolpur 2-1), is concerned mainly with study of problems of rural life in its soc., cultural, econ. and other aspects, and with extension work in villages on the basis of such study. The Cottage Industry Trg. Centre provides 2-yr cert course and 1-yr dipl course in carpentry and weaving. An Inst. for Rural Higher Educn., sponsored by the govt. of India Council of Rural Higher Educn., provides 3-yr dipl course (rural services) and 2-yr cert course (agric. sci.), min. qualif. for admission is 12<sup>th</sup> sch. cert. Palli-Samgathana Vidyaya also conducts the Basic Teachers' Trg. Sch. (Siksha-Charcha), providing instrcn. in both the theory & practice of basic educn. and vacation courses, seminars and conferences, exhibitions, literary and advisory services (sch. visits), field researches. Dir.—D. Roy.

PATYA-BHAVANA (school section) (F. 1901) Provides instrcn. for 11-yr. higher sch. cert. (corresponding to higher sec. exam.) Medium of instrcn. Bengali. Principal—B. B. Gupta, MA.

SINGGI-BHAVANA (coll. of music and dance) (F. 1934) Gives trg. in Indian music, classical and modern, vocal as well as instrumental. A systematic study is made of northern (Manipuri) and southern (Kathakali) styles of dance. Sp. facilities for study of songs of Rabindranath Tagore. Provides post-matric 4-yr dipl. course in music and dance. Principal—S. K. Bhattacharya, BA.

SIKSHA-BHAVANA (coll. of undergrad. studies) (F. 1921). Provides 3-yr. degree courses in arts and sci. (BA. honrs. and BSc. honrs.) Subs.

offered BA. honrs.—Bengali, Hindi, Oriya, Sansk., Engl., hist., Indol., econ., maths. and philos., BSc. honrs.—maths. with phys. and chem. as subsl. subs. Also provides 2-yr cert course (for postgrad. and undergrad. students) in Indian and foreign langs. (Sansk., Bengali, Hindi, Oriya, French, German, Engl., Chinese, Japanese, Italian and Tibetan), followed by further 1-yr dipl. course in the same langs. Tutorial help, emphasis on social, cultural, literary and other extracurricular activities are some of the distinguishing features of the coll. Principal—H. N. Datta, MA.

VIDYA-BHAVANA (coll. of postgrad. studies and res.) (F. 1918) Provides instrcn. for degrees of MA and PhD. MA course is a yrs and subsp. offered are: mod. Indian langs. (Bengali, Hindi, Oriya), hist., and Indian hist. & culture, Sansk., econ., Engl. and philos. The coll. is mainly concerned with Indol. studies in Vedic, Puranic, Buddhist, Jain, Zoroastrian and Islamic cultures and in major langs. and lit. of India. Degree course for PhD (2 yrs.) in any sub., in which instrcn. as provided, also the higher res.-degree DLitt. on pubd. work of outstanding merit. Honrs. grads. of recog. univs. are ordinarily admitted to the MA courses. Pass grads. of recog. univs. are also exceptionally admitted on passing an admission test. MA courses consist of lectures, seminar work, as well as trg. in the methodology of higher studies and res. Principal—K. Bhattacharya, MA PhD.

VINAYA-BHAVANA (teachers' trg. coll.) (F. 1948). Provides instrcn. for BED (1 yr. postgrad.). A sp. feature is the trg. given in crafts and other creative activities in addn. to theoret. subs. Principal—J. G. Rai, BT MEd.

## GENERAL INFORMATION

Visva-Bharati grew out of Santiniketan Ashrama, a retreat founded in 1863 by Mahatma Devendranath Tagore. In 1901 an experimental sch. was started at Santiniketan by Rabindranath Tagore, and since 1921 Santiniketan has been the seat of Visva-Bharati, which was incorporated as a univ. by Act XXIX (1931) of the Indian Parliament. Visva-Bharati is an all-India instn. with students and teachers drawn from all over India and a proportion of teachers, students and visitors from abroad. The territorial jurisdiction of the univ. extends over the area known as Santiniketan (11.5 sq. mls.) in the district of Birbhum in W. Bengal.

The aims of the univ. are to study the mind of man in its realization of different aspects of truth from diverse points of view; to bring into more intimate reln. with one another, through patient study and res., the different cultures of the East on the basis of their underlying unity; to approach the West from the standpoint of such a unity of the life and thought of Asia; to seek to realize in a common fellowship of study the meeting of East and West, and thus ultimately to strengthen

the fundamental conditions of world peace through the establish. of free communication of ideas between the 2 hemispheres; and with such ideals in view, to provide at Santiniketan a centre of culture where res. into and study of the religion, lit., hist., sci. and art of Hindu, Buddhist, Jain, Islamic, Sikh, Christian and other civilizations may be pursued along with the culture of the West, with that simplicity in externals necessary for true spiritual realization, in amity, good fellowship and co-operation between the thinkers and scholars of both eastern and western countries, free from all antagonisms of race, nationality, creed or caste.

A scheme of agro-econ. res. is being conducted at the univ. under the auspices of the min. of food and agric., govt. of India. The scheme has under its purview a considerable area consisting of W. Bengal, Bihar, Orissa and Assam.

The Soc. Educn. Organizers' Trg. Centre, sponsored under the community project scheme, provides for trg. of 160 organizers from the states of the Indian union every yr. and has a twofold curriculum, theoretical and practical.

**CONSTITUTION.** *Sansad* (council), supreme governing body of univ., *Karwa-Sanata* (exec council), univ. exec. body, *Siksha-Sanata* (academic council), which deals with academic matters.

**INCOME (1960-61)** Total income Rs. 4,66,980 (govt. grants, 33.9 per cent., fees, 5.6 per cent., other sources, 60.5 per cent.)

**FACULTY.** The univ. is not organized into faculties.

**LIBRARY.** Central lib. and sectional librs. attached to colls. - over 201,400 vols. incl. MSS. and journals. MSS. section - over 75,000 MSS. in Bengali, Persian, Oriya and Sansk. Chena-Bhavana lib. : more than 100,000 fascicles bound in 35,133 combined vols. of important Chinese books. A complete set of the Tibetan *Triptaka* consisting of 377 bundles of Kylography.

**MUSEUM.** Rabindra-Sadana. Material relating to Rabindranath Tagore : MSS. of 100 of his pubd. works in Bengali, more than 1500 of his paintings, letters addressed to him by his contemporaries, and personal effects. Literature on Tagore and his works.

**AGRICULTURAL FARM** attached to rural reconstruction dept.

**MEDICAL FACILITIES.** Pearson Memorial Hosp. managed by the univ. has 3 full-time med. officers as well as part-time eye specialist, dent. surgeon. Outdoor and indoor treatment, clin. lab. and X-ray apparatus. Quarantine annex, Leprosy clin. at Samketan.

**OVERSEAS AND FOREIGN SCHOLARS** are admitted to the colls. and courses of study both as regular and as casual students. Scholars from all countries share the same community life and participate in all cultural, creative and constructive activities. Entrance requirements, etc., available from registrar.

**FIRST DEGREE.** Post-higher secondary - 3 yrs. - BA hon. (in Bengali, econ., Engl., Hindi, hist., indol., maths., Oriya, philos., Sanskrit), BSc hon. (in maths.).

**HIGHER DEGREE.** 1 yr. - BEd., 2 yrs. after BA hon. - MA (in Bengali, Engl., Hindi, ass., Indian hist. & culture, hist., econ., Geog., philos., Sanskrit); 2 yrs. after MA - PhD; DLitt on pubd. work of outstanding merit to MA of at least 7 yrs. standing.

**HONORARY DEGREE.** Desakottama (DLitt).

**DIPLOMAS.** Fine arts & crafts, music & dance - 4 yrs. (lang. courses in) Sansk., Bengali, Hindi, Oriya, Engl., Japanese, Chinese, Tibetan, Italian,

French, German - 3 yrs. (see 1 yr. after completion of 2-yr. cert. course); woodwork, weaving - 3 yrs.

**CERTIFICATION.** Artistic handicrafts - 2 yrs.; (lang. courses in) Sansk., Bengali, Hindi, Oriya, Engl., Japanese, Chinese, Tibetan, Italian, French, German - 2 yrs.; woodwork, weaving - 3 yrs.

**RESIDENCE.** Students live a community life, all colls. and insts. being co-educational and residential. Men have separate hostels attached to various depts., while women have a common hostel (Sree Sadana). Staff quarters at Santiniketan, Briniketan and Vinaya Palli.

**STUDY LEAVE** is granted to all members of staff, each appon. being decided on its merits.

**FEES.** Annual fees. Rs. 300, inclusive of tuition, med. help, sports, library, and hostel accomm. Refectory charges. Rs. 50 p.m. during term only. Admission fee : about Rs. 25.

**ACADEMIC YEAR.** July to April. Term dates (approx.) : July 1-Sept. 21, Nov. 2-Dec. 20, Jan. 4-April 30.

**LANGUAGE OF INSTRUCTION** is English, except in Patha-Bhavana (sch. section), where Bengali is used.

**EXTENSION LECTURES.** Rabindra memorial extension lectures provide for course of at least 3 lectures in each term of academic session on any one of : lit. (Engl., Bengali, Sansk.), fine arts, hist., philos., Buddhist studies and econ.

**AWARDS.** Merit scholrs., value Rs. 60 & Rs. 75 p.m., awarded to students admitted to various post-higher sec. and postgrad. courses in the univ. Also no. of free studentships and half-free studentships.

**PUBLICATIONS.** The univ.'s publc. dept. (Grantha-Vibhaga) has its H.Q. in Calcutta. This dept. owns the copyright of the Bengali works of Rabindranath Tagore. Its publcns. may be classified as follows : (i) writings of Rabindranath Tagore; (ii) series of books for folk educn.; (iii) series of gen. knowledge books; (iv) res. publcns. under auspices of Vidya-Bhavana res. dept., incl. *Vidya-Bhavan Studies* and *Vidya-Bhavan Annals*; (v) school text-books; (vi) univ. *Annual Report, Bulletin, Pamphlets, Vidya-Bhavan News*. Cultural organs *Vidya-Bhavan Quarterly, Journal of Vidya-Bhavan Study Circle* and *Vidya-Bhavan News* in English, *Vidya-Bhavan Patrika* in Bengali.

**UNIVERSITY PRESS.** Univ. press at Santiniketan prints various publcns. under the imprimatur of Vidya-Bhavan.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** *Stages approaching completion.* Mahadevi Braislaya (extension to Sree-Sadana); Andrews Memorial Hosp., Vinayapalli; extension to central lib.

**RETIREMENTS.** N. V. Goswami (Bengali); N. Ayyaswami (Indo-Tibetan studies).

**RESIGNATIONS.** B. Banerji (Sansk.), apptd.

1ender, Calc., C. R. Bhattacharya (phalaa),  
apptd to W. Bengal state civil service, H.  
Hackett (Engl.), apptd to post under Indo-  
German Assocn., Calc.

DEATHS R. N. Tagore (former vice-chancellor),  
C. C. Bhattacharya (du., public. dept.), N. B.  
Roy (Arabic, Persian & Islamic studies)

HONORARY DEGREES. *D.Litt.*—S. Radhakrish-  
nan, then vice-pres. of India, S. N. Bose,  
formerly vice-chancellor; D. M. Bose, du., Bose  
res. inst., P. C. Mahalanobis, du., Indian Stat.  
Inst.; H. Kébir, minister, sci. res. & cultural  
affairs, govt. of India, G. Bandyopadhyaya,  
musician, formerly visiting prof., Alauddin  
Khan, musician, formerly visiting prof., G.  
Tucci, pres., Italian inst. for middle and far east,  
Rome.

#### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	236	—
Women	190	—
Total	426	—

Distribution. Preparatory, 21; BA, 100,  
BSc, 6, MA, 58, PhD, 33, lang. & casual  
students, 12, BEd, 74; fine arts & crafts, 70,  
music & dance, 39, dipl. in woodwork, 24; dipl.  
in weaving, 9. Total. 446

*Included in the figures above are —*

Preparatory students, 21

Postgraduate students, 165.

New admissions, 103

Students from other countries, 20 (Country  
from which largest number came. Ceylon, 11)

DEGREES AWARDED (1961) BA pass, 1, BA  
hons, 22; BEd, 58, MA, 55, PhD, 2. Total  
number of first degrees awarded, 23

DIPLOMAS AWARDED (1961) Fine arts & crafts,  
19, lang., 4, music & dance, 15, weaving, 5,  
woodwork, 9

CERTIFICATES AWARDED (1961) Arts & crafts,  
16; IA, 26; ISc, 22; lang., 15, weaving, 6;  
woodwork, 5



# MALAYA

University of Malaya (p. 730)

**MALAYA**

# UNIVERSITY OF MALAYA\*

Established 1962, previously established as University of Malaya in Kuala Lumpur, 1959

Postal Address: Pantai Valley, Kuala Lumpur, Malaysia

Cables and Telegrams: Univmal, Kuala Lumpur

Telephone: Kuala Lumpur 89361

CHANCELLOR—YANG TERHAT MULLA TUNKU ABDUL RAHMAN PUTRA, CH, BA *Contd*, Hon. LLD *Alaasta, Syd, Camb, Saigon and Malaya*

TEMPORARY CHAIRMAN OF COUNCIL—TUAN HAJI MUSTAPHA ALDIKRI, CBE, Hon. LLD

VICE-CHANCELLOR—SIR ALEXANDER OPPENHEIM, OBE, MA DSc *Oxon*, PhD *Chc*, Hon. DSc *HK*, Hon. LLD *Singapore*

DEPUTY VICE-CHANCELLOR—

REGISTRAR—FOO YEOW YOCK, DipArts

TEMPORARY RECTOR—WONG PAK CHOW

LIBRARIAN—

## TEACHING STAFF

<b>Accounting and Business Administration</b>		Jong, K., BSc <i>Rand</i>	Lectr.
Seconded by Canadian govt. under Colombo Plan.		Merton, L. F. H., MA <i>Contd</i> .	Lectr.
		Turnau, E. A., MSc <i>McG</i> .	Lectr.
Wong, Prof. L. J. G., BCom <i>Br. Col.</i> , MBA <i>Calif</i>		<b>Chemistry</b>	
Beeble, Prof. A., BCom <i>Leind</i> , FCA		Huang, R. L., BSc <i>HK</i> , DPhil <i>Oxon</i> ,	Prof.
Bebusik, Prof. H., BSc(Econ) <i>Leind</i> , MBA <i>W. Ont.</i>		DSc, FRIC	
Hall, Prof. N. A., BCom <i>Br. Col.</i> , MBA <i>S. Calif.</i> , PhD <i>Hav</i>		Monsingh, F., DPhil <i>Oxon</i> , MSc	Sr. Lectr.
<b>Agriculture</b>		Lee, K. H., MA <i>Hav</i> , MSc	Lectr.
Davies, G. M., DEC, BAgSc		Trelton, F. E., BSc PhD <i>Adel</i>	Lectr.
DipVFM <i>NZ</i>		Bretner, H. J. O., Dr <i>Frank</i>	Lectr.
Chancellor, W. J., BSc(ME) BSc(Agr) <i>Wisc.</i> , MS PhD <i>Corn.</i>		Lee, H. H., BS <i>Ill.</i> , PhD <i>M.I.T.</i>	Lectr.
(Agric. Econ.) Visiting Prof.		Lethbridge, J. W., MA <i>Contd</i> ,	
Kelley, R. B., OBE, DYSc <i>Adel</i>		MScTech <i>Mans.</i>	Lectr.
Wharton, C. R., Jr., BA <i>Hav</i> , MA		Ong Sean Heek, Augustine, MSc	Asst. Lectr.
PhD <i>Chc.</i> (Agric. Econ.) Visiting Fellow		3 Tutor	
Bevan, J. W. L., BSc <i>Waler</i>		<b>Chinese Studies</b>	
Enoch, I., BSc <i>Waler</i>		Cheng Te'Kun, MA <i>Yenching</i> , PhD <i>Hav</i> .	Prof.
Moir, G. F. J., BSc <i>Syd</i>		<b>Economics</b>	
Chen, K. K., BVSc <i>Syd</i>		Ungku Abdul Aziz bin Abdul Hamid,	
Joseph, K. T., BAgSc <i>W. Aust.</i> , MAgSc <i>Adel</i>		DipArts <i>BA</i>	Prof.
Verghese, G., BSc <i>Mad.</i> , MSc <i>Leind</i>		Agarwal, M. C., MSc(Ag) PhD <i>Calif.</i>	Lectr.
Kaim, M. Z. B. H. A., BAgSc <i>N.Z.</i>		Gilson, S. J., BA <i>Patna</i> , MA <i>Sind</i> ,	
Goh, K. M., BAgSc(Hort) MAgSc <i>N.Z.</i>		PhD <i>Leind</i>	Lectr.
Asst. Lectr.		Yip Yee Hoong, MA	(on leave) Lectr.
<b>Botany</b>		Lim Chong Yeh, MA	Lectr.
Pooze, M. E. D., MA PhD <i>Contd</i>		Ma, R., BCom <i>Leind</i>	Lectr.
Caird, J., BSc <i>Glas.</i>		Lo Sum Yee, BA <i>HK</i> , MA <i>Leind</i>	Asst. Lectr.
Griffiths, D. A., BSc PhD <i>Wales</i>		<b>Engineering</b>	
Prof.		Chin Fung Kee, MSc <i>Belf.</i> , DipArts	Prof.
Sr. Lectr.		Hu, P. Y., SB <i>M.I.T.</i>	Visiting Prof.
Lectr.			

\* Member of the Association of Universities of the British Commonwealth

Huang Han-Chao, BSc *Nanhsung*,PhD *London*Lowe, G., BE PhD *N Z*Chiu, T. K., BScE *Ohio*, MS *Iowa*Lee, M. B., BSMSE *Purdue*, MSc *Mech.*Tai, K. C., BE *Syd*Navaratnam, V., BSc(Eng) *Ceyl*Sengprajug, C., BSc(Eng) *London*Kochle, R., DiplIng *Dupl Phys & T H Zurich*Kwok, H. H., ME *Adel.*Jeyamasan, K., BSc(Eng) *Ceyl*Pillay, R. K., BE *N S W***English**Le Page, R. B., BA *Ovan*, PhD *Birm*Evans, E. C., BA *Wales & Oxon.*Price, A. W., BA *Rand*, MAWaldo, G. S., BA *Hamilton*, MA *Cal.*PhD *London*Kirkup, J., BA *Durb*Ward, David E., MA *Cambr*Fernando, L., BA (on leave) *Asst*Ormerod, D. A., BA *Ovan* *Asst*Fairash, Simone C., MA *St And* *Asst*

2 Tutors

**Geography**Ho, R., MA *London*, Dip *Asst* *Prof*Goaling, L. A. P., MA PhD *Mech.* *Visiting Prof*Dale, W. L., MBE, MSc *London* *Sr*Sendut, H., MCD *Lev*, BA *Lectr.*Fryer, D. W., MSc *McCom Melb.*PhD *London*Jeyathava, S., BSc *Ceyl*, MA *Calif.* *Lectr.*McGee, T. G., MA *N Z* *Lectr.*Jackson, J. C., BA *Sheff*, MA *Lanc.* *Asst Lectr.***Geology**Klompf, T. H. F., Drs *Utrecht* *Prof*Hutchison, C. S., BSc *Adel.*, FGS *Lectr.*Gobbert, D. J., MA PhD *Cambr* *Lectr.*Leow Yee Hoo, BSc *W. Aust.*, FGS *Lectr.*Koopmans, B. N., BSc PhD *Lev* *Lectr.***History**Bustin, J. S., MA *Melb.*, DLitt *Lev.*DPhil *Ovan*Winks, R. W., MA *Colorado & N.Z.* *Prof*PhD *Yohs H.*Lamb, A., MA PhD *Cambr.* *Visiting Prof*Freedman, M., MA PhD *London* *Reader*Wang Gungwu, PhD *London*, MA *Sr Lectr.*Bassett, D. K., BA *Wales*, PhD *London* *Lectr.*Turnbull, Miss C. M., BA *London* *Lectr.*Frodsham, J. D., BA *Cambr* *Lectr.*Short, A., BSc(Econ) *London*, MA *Virginia*BLitt *Ovan*Plavien, J. M., PhD *Adel.* *Lectr.*Pearce, B. A. Y., MA *Cambr.* *Lectr.*Zamel Abidin, A. W., MA *Q'nd* *Asst Lectr.*Kathirathanby, Miss Jayasulal, BA *Asst Lectr.***Indian Studies**Thang Nayanam, X. S., MA MLitt *Adel.* *Prof*DIP *Rome*, PhD *London* *Lectr.*Palani, U., MA *Madr.*, BOL *Adel.* *Lectr.*Assamam, S., BA *Cypr.*, PhD *London* *Lectr.*Hameed, S., MA *Madr.* *Asst Lectr.*Vishwanathan, E. S., MA *Madr.* *Asst Lectr.*Killingley, D. H., BA *Ovan* *Asst Lectr.*

2 Tutors

**Islamic Studies**Ruf, M. A., Al-Azhar *Al-Azhar*,MA *Cambr*, DipEd *Hd of Dept*Hassan, S. A., MA *Madr.*, PhD *Cambr* *Lectr.*Mackeen, A. M. M., BA PhD *London* *Lectr.*Ismael Nawab, MA DipEd *Edin* *Asst Lectr.*Syed Husain Mohd Jafri, MA PhD *Lack.* *Asst Lectr.***Malay Studies**Reolink, R., BA *Lev*, MA DLitt *Utrecht* *Prof*Meer, C. A., MA *Lev*, DLitt *Utrecht* *Sr Lectr.*Mohd Zaki Badawi, Al-Azhar *Al-Azhar**Al-Azhar*, BA *London* *Lectr.*Shimmer, C., BA *London*, DipIOS *Sch of**O & A Student(Lev)* *Lectr.*Mohd Yus bin Osman, BA *Lectr.*Tjoe Seng Hock, MA *Utrecht*,MSS *Inst. for Soc. Studies(The Hague)* *Lectr.*Ismael bin Hussein, BA *Asst Lectr.***Mathematics**Ehezer, C. J., MA PhD *Cambr.*, DSc *London* *Prof*Skynne, T. H. R., MA *Cambr* *Sr Lectr.*Hoe, J., MSc *N Z*, MADiplMath(Stats) *Cambr.* *Lectr.*Jha, P., MA PhD *Penn* *Lectr.*Idakkadam, N. M., MA *Cambr*, MSc *London* *Lectr.*Toh Khenm Hoo, MSc (on leave) *Asst Lectr.***Physics**Thong Saw Pak, PhD *Belf*, BSc *DupSc.*

FIP

Roy, S. K., MSc PhD *Penn* *Prof*Singh, C., PhD *Cambr*, MSc *Lectr.*Skynne, Mrs. D. M., BSc PhD *London* *Lectr.*Teh Hock Hong, PhD *Belf*, MSc *Lectr.*Ramanathan, V. R., BSc *Madr.*, MSc *Ban.*PhD *London* *Lectr.***Zoology**Hendrickson, J. R., BSc *Arizona*, MAPhD *Calif.* *Prof*Berry, A. J., BSc PhD *London* *Lectr.*Bullock, J. A., DIC, BSc *London* *Lectr.*Dhulwal, S. S., PhD *Edin*, MSc *Lectr.*Guthrie Guthrie-Hardy, Lord *Madway*,MA *Cambr*, PhD *Birm* *Lectr.*Robbie, K., DrRerNat *Mun* *Lectr.*Berry, Mrs P. Y., MSc *DipEd* *Asst Lectr.*



## ADMINISTRATIVE AND OTHER STAFF

Asst Registrars T S Teh, DipSc, C T Lim, BA, R S Nathan, BA, Asst Bursar: H. T. Cheah, Admin Assts: R C Daniel; K S Kong, M. A. de Souza; Y S Wee; H P Ng, BA, Financial Asst.: C. K. Lee, BCom

LIBRARY STAFF Asst Librarians: B Lam, BA, A. F. Johnson, FLA, T. T. Wang, BA, Yeap Hong, Library Asst.: C H Ee, B Gopal, BA; H T Lum, BA, M. W. Soong, BA,

D E K Wyssuriya, BA Cert, S M Abdul Aziz, BA; V Nadanasekapatthy, BSc, Zellina Nani, BA, Lalita Rajasoorie, BA; H H Yeoh, BA, Ise Tay

RESIDENTIAL COLLS Domestic Managers H. K. Lam, Mrs. M. Yeow.

STUDENT HEALTH PHYSICIAN E Patrick, MB BS, MRCPed

## GENERAL INFORMATION

The Univ of Malaya was estab'd as the natnl univ of the Fed of Malaya on Jan 1, 1962, by the Univ. of Malaya Act 1961 which at the same time repealed the Univ of Malaya Ordinance 1949 establishing the former Univ of Malaya. The Univ of Malaya is successor to 'Univ. of Malaya in Kuala Lumpur', a div. (estab'd in 1959) of former Univ of Malaya which was itself founded in 1949 by fusion of then existing colls. of higher educn in Singapore: the King Edward VII Coll. of Med (founded 1905) and Raffles Coll. (founded 1929). Full univ teaching was carried on from day of foundation and first degrees to be granted by the univ were conferred at the convocation held in June 1962.

Univ. teaching started in Kuala Lumpur (pop 350,000), capital of Fed of Malaya, in Sept. 1957 with 1st-yr. teaching in all arts subjs conducted in accom. temporarily made available in the Govt Tech. Coll., Gurney Rd. At the same time devel. of the site for the univ at Pantai Valley in Kuala Lumpur was begun. In July 1958 entire dept of engin was transferred to Pantai Valley site from Singapore.

As a result of a report in Nov. 1957 by a commission headed by Sir Robert Aitken, vice-chancellor of Univ of Birmingham, the constitution of former Univ. of Malaya was redrafted to create 2 divs of equal status, 1 in Singapore and the other in Kuala Lumpur, with the univ as supreme governing body of the 2 divs. Ordinances to give effect to these proposals were enacted in Nov. 1958 and came into force on Jan. 15, 1959.

The div. in Kuala Lumpur, known as the Univ of Malaya in Kuala Lumpur, started with facs of arts, engin., and sci. In 1960 a degree course in agric. was instituted. In that same yr the govt of the Fed. of Malaya indicated its intention that the Kuala Lumpur div should become the natnl univ of the fed., the Singapore govt did likewise. Legislation to effect the estab. of these 2 separate univs was enacted in the fed. in Oct. and in Singapore in Dec. 1961. This legisla. came into force on Jan. 1, 1962.

CONSTITUTION The main authorities of the univ are the court, council and senate. Court is widely representative body with only nominal

power. Council is exec. body of univ and exercises all powers of univ except those which are conferred by constitution or by statute on some other authority. Senate is academic body of univ and has control of gen. direction of instructn., exam., res. and award of degrees, dipls and certs.

INCOME (Kuala Lumpur div of Univ of Malaya, for yr ended Dec. 31, 1960) £364,365 approx (govt grants, 87.9 per cent, tuition & other fees, 9.7 per cent; investment income, 0.1 per cent.; rent, 1.4 per cent; misc., 0.8 per cent.)

FACULTIES AND DEANS (1962-63) Arts, Prof. R. B. Le Page (Engl.), engin., Prof. Chan Fung Kee, Jcn., Prof. C. J. Elzezer (maths.). Non-fac. dept.: agric., Prof. G. M. Davies, hd. of dept.

UNIVERSITY PRECINCT The Univ of Malaya is situated in the Pantai Valley which is about 3 miles from the gen. post office, Kuala Lumpur, and as the newly constructed fed. highway linking the fed. capital with the royal town of Klang. The main bldgs. of the univ. are on elevated ground facing a central valley which has been converted into an artificial lake. A ring road affords access to the various bldgs.: 1st residential coll., 2nd residential coll., fac. of engin., fac. of arts, library, fac. of sci., dept. of agric.

LIBRARY Approx. 70,000 vols.

ADMISSION Candidates are ordinarily required to take Camb. overseas higher sch. cert. exam. which is regarded as univ. entrance exam. For admission to 1st-yr. courses, candidates must have obtained at one and the same exam. passes in either 2 subjs. at principal standard or one subj. at principal standard and 2 subjs. at substd. standard. A pass in the gen. paper is also desirable. For sci., engin. and agric. there are sp. fac. requirements to be fulfilled. For exemption from 1st-yr. and admission to 2nd-yr. courses in sci. and agric. candidates must have full cert. with good passes in either 3 subjs. at principal standard or 2 at principal standard and 2 at substd. standard, the subjs. being chosen from a list. A pass in the gen. paper is also desirable.

Non-graduating courses are provided and admission is subject to the approval of the dean (or his, of non-fac. dept.) concerned.

**FIRST DEGREES** BA gen and hon.—3 yrs Gen degree in 2 subjs. Hons degree in 1 subj chosen from econ., Engl., geog., hist., Indian studies, Islamic studies, Malay studies, maths. BSc pass—3 yrs. from admission to 1st yr., 2 yrs. from admission to 2nd yr.; hons.—after 4th yr Pass degree in 2 subjs.; hons degree in 1 subj chosen from bot., chem., geog., geol., math., phys., zool. BSc—4 yrs. BAgSci—pass degree or hons—4 yrs.

**HIGHER DEGREES** Open to gradu. MA, MSc, MAgSci, MEngSci (1 yr's residence), PhD (2 yrs. residence); open to masters or PhDs of 5 yrs. standing—DSc, DLitt. Gradu. of other univs may also be admitted to higher degrees of this univ.

**HONORARY DEGREES** The univ. may confer any degree as an hon. degree.

**RESEARCH.** Facilities for res. available in most depts.

**STUDY LEAVE** Permanent staff eligible for 'study' or 'overseas' leave on full salary at rate of about 6 months for every 3 yrs. service.

**FEES.** Tuition, incl. students' union BA, BSc, BE and BAgSci courses, about £56.50 p a Higher degrees, res. fees, £17 p a depending on degree; exam. fees, MA, MSc, £17.10s., PhD, £23.50; DLitt, DSc, £35.

**ACADEMIC YEAR.** May to Jan. 3 terms, May-July, Aug.-Oct.; Nov.-Jan.

**SCHOLARSHIPS, BURSARIES, ETC.** The univ.

offers annually a number of entrance scholarships on the results of the univ. entrance exam. The govts. of Singapore and the Fed. of Malaya offer bursaries and scholarships to suitable candidates requiring financial aid. Scholarships, also offered by firms, etc.

**APPOINTMENTS** Board registers prospective candidates and vacancies for appointments.

**GRADUATES' ASSOCIATION** There is a Univ. of Malaya soc. to which all gradu. may be admitted.

**STUDENT RESIDENCES** Men & women. 1st residential coll. Men and residential coll. Both colls. are in the univ. precinct.

**STAFF RESIDENCES.** At present, there are 77 units for academic staff. In addition, houses are rented by the univ. to accomm. academic members of staff.

**STUDENT HEALTH SERVICE.** The univ. operates a student health service scheme for students living in the residential colls. for which a student health service fee of \$6 per term is payable. Under this scheme, the univ. provides free med. attention, incl. payment of ward charges in case of hospitalisation, and runs a clinic in the 1st residential coll. under the charge of the student health physician, assisted by a nurse.

**STUDENTS' UNION.** All matriculated students are obliged to be members of the Univ. of Malaya students' union. This union is administered by a students' council consisting of 25 to 30 students elected annually. There is an exec. cmttee, apptd. by the students' council and there are also other standing and special cmttees as well as societies which cater for soc. athletic and other student activities.

**PUBLICATIONS.** *Calendar.*

## THE YEAR 1961\*

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed 40 units of staff housing and vice-chancellor's residence; poultry unit and plant house (dept. of agric.); students' union house. Approaching completion. 3rd residential coll. to accomm. 250.

**NEW DEPARTMENTS AND CHAIRS.** Dept and chair of Chinese studies.

**RETIREDMENTS** Prof. C. S. Pichaimuthu (geol.)

**RESIGNATIONS** Dr G. T. Ward (engin.); Liu Cheng (engin.); Wong Lock Seng (engin.); S. S. Gorda (geol.); M. Rajakannu (Indian studies).

**HONORARY DEGREES.** LL.D.—Tun Abdul Razak bin Hussain, Foo Yin Chew; Tun Haji Mustapha Al-Bakri, Thio Chan Bee, Yap Pheng Geck.

## Statistics

### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	772	—
Women	238	—
Total	1010	—

**Distribution by Faculties.** Agri., 53, arts, 556, engin., 198, sci., 203. Total: 1010

*Included in the figures above are:—*

New admissions, 445.

Students from other countries, 4.

**DEGREES AWARDED (1960-61)** Arts: BA hons., 25, MA, 2. Engin. BE, 23. Sci.: BSc, 7, BSc hons., 2.

\* This information relates to the Kuala Lumpur division of the former University of Malaya



# MALTA

Royal University of Malta (p. 736)

**MALTA**

# ROYAL UNIVERSITY OF MALTA\*

Founded 1592, raised to university status 1769

Postal Address: St. Paul Street, Valletta, Malta

Cables and Telegrams: University, Malta

Telephones: Central 24066-7, 21201-2

PATRON—H.M. THE QUEEN

CHANCELLOR—H.E. THE GOVERNOR OF MALTA

VICE-CHANCELLOR AND RECTOR MAGNIFICUS—J. A. MANCHÉ, CBE, Hon LLD *W.Oxf.*, BSc MD

REGISTERAR—L. M. PACE, BSc(Econ) *Lead.*

BURSAR—P. GALES CURMI

LIBRARIAN—.....

## TEACHING STAFF

(† = Part-Time)

<b>Anatomy and Histology</b>		<b>Economics</b>	
Griffiths, V. G., BSc MD, FRCS	{Prof. Lectr.	Chislo, Rev. R., MSc(Econ) <i>Lead.</i> , BSc(Pol) <i>Leuven</i> , BA DD	Lectr.
2 Demrs.		<b>Engineering, Civil</b>	
<b>Architecture</b>			{Prof.
Colombo, J., BSc BE&A	{Prof.	Fenech, G., BSc(Eng) <i>Lead.</i> (Engn. Drawing)	{Lectr.
<b>Biochemistry, see Physiol. and Biochem.</b>		2 Temp. Lectrs (Bldg. Construcn., Theory of Structures), 1 Demr	
<b>Biology</b>		<b>Engineering, Municipal</b>	
Thomas, O. L., MD ChB NZ, DPhil <i>Oxon.</i>	{Prof. Lectr.	.....	{Prof.
Micallef, H., BSc <i>Lead.</i>	Lectr.	1 Temp. Lectr (Town Planning & Highway Engn.)	
Austin, A. P., BSc PhD <i>Wales</i>	Lectr.	<b>English</b>	
<b>Chemistry</b>		Beck, R. J., PhD <i>St. And.</i> , MA <i>Oxon.</i>	Prof.
Edwards, W. G. H., BSc PhD <i>Lead.</i> , FRIC	{Prof. Lectr.	Sultana, D. E., MA <i>Oxon.</i> , BSc MD (on leave)	Lectr.
Cooke, A. S., BSc PhD <i>Lead.</i>	Lectr.	Fahey-Hills, D. L., MA BLitt <i>Oxon.</i>	Lectr.
Jactarini, A. P., BSc BPharm MD BA <i>Lead.</i>	Lectr.	<b>History</b>	
<b>Classics</b>		Vella, Rev. Fr. A. P., BLitt <i>Oxon.</i> , SThL	Prof.
Coleiro, Most Rev. Mgr. E., PhD <i>Lead.</i> , BA BLitt DD	(Latin) Prof.	McPartlin, J. T., MA <i>St. And.</i>	Asst. Lectr.
Seaton, Rev. G. J., MA <i>Cambr.</i>	(Greek) Prof.	<b>Holy Scripture</b>	
<b>Dental Surgery</b>		.....	{Prof.
Mangion, J. J., BSc MD, FDSRCS	{Prof. Lectr.	1 Temp. Lectr	{Lectr.
.....	(Oper. D.S.)	<b>Law, Civil</b>	
.....	{Lectr.	Ganado, J. M., PhD <i>Lead.</i> , BA LLD	{Prof.
.....	(D. Mechanica) {Lectr.	.....	(Canon L.) {Lectr.
2 Demrs		.....	(Roman L.) {Lectr.
		.....	(Sci. of L.) {Lectr.

\* Member of the Association of Universities of the British Commonwealth

<b>Law, Commercial</b>	
Cremone, F., LL.D.	†Prof.
<b>Law, Criminal</b>	
Cremone, J. J., DLitt <i>Rome</i> , BA <i>Leid.</i> & <i>Malta</i> , PhD <i>Leid.</i> , LL.D., FRHistS	†Prof.
Caruana Curran, M., BA LL.D.	†Lectr.
(Course of Legal Protutor)	†Lectr.
.. ..	(Forensic Med.) †Lectr.
<b>Laws, Public</b>	
Busuttill, E., MA BLitt <i>Oxou.</i> , LL.D. BA	Prof.
(Internat. Law)	†Lectr.
Gullis, W., MA(Admin) <i>Down</i> , DPA <i>Leid.</i> , LL.D. BA BSc	†Lectr.
(Admin. Law)	†Lectr.
Hendling, H., BA LL.D.	†Lectr.
(Hist. of Legals)	†Lectr.
.. ..	(Const. Law) †Lectr.
<b>Maltese and Oriental Languages</b>	
Aquilina, J., PhD <i>Leid.</i> , BA LL.D.	Prof.
<b>Mathematics, Pure and Applied</b>	
Boig Costanza, E. J., MA <i>Oxon</i> , BSc	Prof.
BERA	†Lectr.
Grisewood, D., BSc <i>St. And.</i>	Asst. Lectr.
.. ..	†Lectr.
<b>Medicine, see below</b>	
<b>Modern Languages</b>	
Di Pietro, A., DLitt <i>Sacred Heart (Milan)</i>	(Italian) Prof.
1 Temp. Lectr. (French)	
<b>Oriental Languages, see Maltese and Oriental Langs.</b>	
<b>Philosophy</b>	
Sapiano, Most Rev. Mgr. J., PhD SThD	†Prof.
HatEcL <i>Grog.</i>	Lectr.
1 Temp. Lectr.	
<b>Physics</b>	
Lewis, F., BSc PhD <i>Leid.</i>	Prof.
Zahra-Neumann, C., BSc MD	†Prof.
Aitard, M., BA <i>Oxon</i> , BSc BE&A	Lectr.
.. ..	Lectr.
<b>Physiology and Biochemistry</b>	
Canado, W., BSc <i>Leid.</i> & <i>Malta</i> , MD, MRCP	†Prof.
.. ..	Lectr.
2 Demrs	
<b>Theology, Dogmatic</b>	
Zarb, Very Rev. Fr. S. M., OBE, SThM	†Prof.
SScptsD <i>Grog.</i>	
Bonucci, Most Rev. Mgr. A., HatEcL <i>Grog.</i> , BA BLCan DD	†Prof.
(Hist. of the Church & Christian Archaeol.)	†Prof.
Lupa, Most Rev. Mgr. J., LecD <i>Grog.</i> , BLCan DD (Laurey and Patrology)	†Lectr.
<b>Theology, Moral</b>	
.. ..	†Prof.
.. ..	(Canon Law) †Lectr.
2 Temp. Lectrs.	
<b>MEDICINE</b>	
(for subjects of first 2 yrs.—Anat., etc., see above)	
<b>Materia Medica, Pharmacology and Therapeutics</b>	
Zammit Meneapel, J. V., MD	†Prof.
<b>Medicine</b>	
Debono, J. E., CBE, BSc MD, FRCP	†Prof.
Briffa, R., BSc MD	Lectr.
(Venereal & Dermatol.)	†Lectr.
Coleiro, C., DPH DTM <i>Leu</i> , BSc MD	†Prof.
(Sec & Prev. M.)	†Prof.
Vassallo, V., OBE, MD <i>Naples</i> , DPM <i>Leid.</i>	†Prof.
(Psychiat.)	†Prof.
.. ..	(Child Health) †Lectr.
9 Teachers, 1 Demr.	
<b>Obstetrics and Gynaecology</b>	
Zammit, O., MSc <i>Liv.</i> , MD, FRCOG	†Prof.
1 Teacher, 1 Demr.	Lectr.
<b>Pathology</b>	
Xuereb, G. P., BSc DPhil <i>Oxon</i> , DCP <i>Leid.</i> , BSc MD	Prof.
.. ..	Lectr.
Agus, E., DPH <i>Leu</i> , DipBact <i>Leid.</i> , BSc MD	†Lectr.
(Bacteriol.)	†Lectr.
.. ..	(Forensic Med.) †Lectr.
3 Teachers, 3 Demrs.	
<b>Surgery</b>	
Craig, A. J., OBE, BSc MD, FRCS	†Prof.
.. ..	Lectr.
Amato, V., BSc MD, FRCS (Orthop.)	†Lectr.
D'Amato, F. J., DO <i>Oxon</i> , DOMS <i>Leid.</i> , MD, FRCS	†Lectr.
(Ophthalmol.)	†Lectr.
Podesta, C. H., BSc MD LM <i>Dub.</i> , FFARCS	†Lectr.
(Anesth.)	†Lectr.
Vella, S. L., BSc MD (R.N.T. Dis.)	†Lectr.
10 Teachers, 1 Demr.	

## ADMINISTRATIVE AND OTHER STAFF

Chief Registry Clerk: L. Elia Chief Finance J. A. Montalto. Curator, Bot. Gardens: M. A. Delia.  
 Clerk: E. E. Camilleri Chief Asst. Librarian.

## GENERAL INFORMATION

The univ. began as a Jesuit coll. instituted in 1592 by Pope Clement VIII, who gave it the power of conferring degrees in philos. and in theol. It is still housed in a bldg. erected by the Jesuit Fathers. Its med. fac. originated in a sch. of anat. founded in 1674 by grandmaster Nicola Cottoner in the great hosp. of the order, which accommodated 745 patients. P<sup>re</sup> Emmanuel Pinto de Fonseca, grandmaster of the order of St John of Jerusalem, with authority from Pope Clement XIV, raised the coll. to univ. status in 1769.

**CONSTITUTION.** By ordinance no. XXXII promulgated in 1947, and amended in 1957 and 1961, the univ. is governed by a council consisting of a pres. apptd. by the council, from its own members or otherwise, the vice-chancellor and rector magnificus as vice-pres., a member apptd. by the Inter-Univ. Council for Higher Educat. Overseas, 6 members elected by the legislature of Malta, 6 members (hds. of depts.) elected by the senate, 2 members elected by the guild of grocers, 2 members apptd. by the chancellor in consultation with the vice-chancellor and 1 member apptd. by the metropol. archbishop of Malta. A senate consisting of the vice-chancellor and rector magnificus, all hds. of depts. and reps. of the other teachers was also instituted by the ordinance. The council is the supreme authority of the univ.

**INCOME (1960-61).** Total, £26,425 (govt. grant, £26,000, students' fees, £10,035, other sources, £390).

**LIBRARY** 35,000 vols.

**MUSEUM.** Archaeol. OBSERVATORY, full meteorol. equipment and anemograph. BOTANICAL GARDENS, collection of exotic and Maltese flora, medicinal plants.

**HOSPITALS** available for clinics. Gen. (730 beds), and several special—leprosy (120), mental dis. (800), invalid and old age (1000).

**FACULTIES AND DEANS.** *Arts*, Prof. J. Aquilina (Maltese), *dent. surg.*, Prof. J. J. Mungion; *surg. & archit.*, Prof. J. Colombo (archit.), *laws*, Prof. F. Ciemena (comml. law); *med. & surg.*, Prof. G. P. Xuerob (pathol.); *sci.*, Prof. E. J. Burg Costanza (maths); *theol.*, Prof. F. S. M. Zerb (dogmatic theol.).

**MATRICULATION EXAM.** requires pass in 6 subjs., incl. Engl. (lang. & lit.), Maltese, maths and 3 other subjs. which must incl. a lang., a sci. subj. and another subj. at the choice of the candidates. Latin is obligatory for facs. of arts, laws and theol. The inter. courses in arts and sci. start every yr. All other courses start every 2 yrs., and the next courses commence in Oct. 1964.

**FIRST DEGREE.** BA hon. (in Engl., hist., Latin, Maltese), BA gen., BSc, BPharm—4 yrs.; BArch, BEng—7 yrs.; BChD, BD—6 yrs.; LLB, MD, LL.D—7 yrs.; DD—8 yrs.

**HIGHER DEGREE.** MArch, MEng—open to grads. with at least 7 yrs. practice.

**HONORARY DEGREE.** DD, LL.D, MD, DSc, DLitt.

**DIPLOMAS.** Notary public—6 yrs., legal procurator, pub. admin.—3 yrs., educat.—1 yr.

**FEES (tuition)** £36-£54

**ACADEMIC YEAR.** 1962-63. Oct. 1, 1962-May 31, 1963

**PUBLICATIONS.** *Calendar* (Oct.), 5s., *Annual Report*, 2s. 6d.

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	277	—
Women	22	—
Total	299	—

**Distribution by Faculties.** *Arts*, 104; *dent. surg.*, 5; *surg. & archit.*, 1; *laws*, 8; *med. & surg.*, 33; *sci.*, 100; *theol.*, 48. Total, 299.

*Included in the figures above are:—*

Postgraduate students, nil.

New admissions, 68.

Students from other countries, 2.

**DEGREE AWARDED (1960-61).** *Dent. surg.*: BChD, 7. *Theol.*: DD, 3; LL.D, 3; BD, 19.

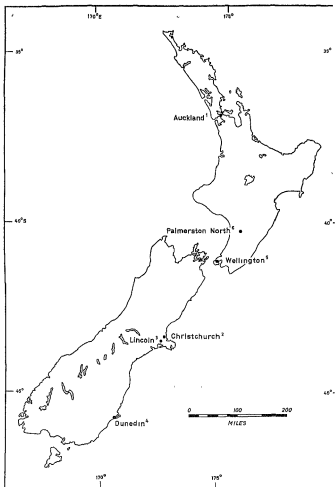
**DIPLOMAS AWARDED (1960-61)** *Arts*: DPA, 6. *Laws*: LP, 8.

# NEW ZEALAND

- 1 University of Auckland (p. 748)
- 2 University of Canterbury (p. 754)
- 3 Lincoln College (p. 759)
- 4 University of Otago (p. 762)
- 5 Victoria University of Wellington (p. 770)
- 6 Massey University College of Manawatu (p. 775)

NEW ZEALAND





*The places named in black type are the seats of the university institutions numbered overleaf*

# UNIVERSITY INSTITUTIONS IN NEW ZEALAND

(Specially revised for this edition by Professor I. D. Campbell, Deputy Vice-Chancellor,  
Victoria University of Wellington)

**HISTORY.** The University of New Zealand was established by act of parliament in 1870 and dissolved by act of parliament in 1961, being succeeded by a number of semi-autonomous university institutions which had previously formed parts of the University of New Zealand.

The University of New Zealand comprised four constituent institutions and two associated colleges. The first of these was established by the Scottish pioneers in 1869 through an ordinance of the provincial council of Otago as the University of Otago at Dunedin. When the concept of one university for New Zealand developed almost immediately, the Scottish settlers, somewhat reluctantly, yielded their right to their own independent university which became in 1874 a constituent college of the University of New Zealand whilst retaining the name of University of Otago. In 1873 Canterbury University College was established, largely through the efforts of the Canterbury Association, at Christchurch. In 1876 the Queen granted a charter to the University of New Zealand. Auckland, the original capital of the colony, established its University College in 1882, and Wellington set up Victoria University College in 1897. Canterbury Agricultural College, Lincoln (a few miles from Christchurch), was established in 1873 and was controlled by the council of Canterbury University College until 1896 when it became more directly associated with the University of New Zealand. Massey Agricultural College, Palmerston North, was established in 1926, becoming the centre of agricultural education in the north island.

In October 1957 the titles of Auckland, Canterbury and Victoria university colleges became 'University of Auckland', 'University of Canterbury' and 'Victoria University of Wellington', respectively. These were changes of title only, and there was no change in the powers of these three institutions.

In August 1958 senate approved the establishment of a university college at Palmerston North as a branch of the Victoria University of Wellington and in April 1959 government approved these proposals and made financial provision for the establishment of the branch in 1960. Tuition was made available at the branch college in certain subjects for internal students and the college was also responsible for extra-mural tuition in these subjects to students from all university districts. In April 1959 government approved the establishment of a university college at Hamilton in 1960 as a branch of the University of Auckland.

The University of New Zealand had a federal

structure and was similar in certain respects to the universities of London and Wales. According to the provisions of the University Act 1968 the principal duty of the university was the conduct of the examinations for the students of the colleges and for many years the scripts were sent to Great Britain to be marked by examiners appointed by the university.

The governing body of the university was the senate, which exercised authority in general academic and administrative matters. It was advised on academic matters by the academic board. Under an act of 1954 the senate delegated to a curriculum committee authority to approve course regulations for the various degree courses taught in the constituent institutions and agricultural colleges. Course regulations approved by the curriculum committee superseded degree statutes of the university and were regulations of the sponsoring institution. Whilst the basic degree structure set out in the various degree statutes of the university was retained in these course regulations, there were variations between constituent institutions in prerequisites, prescriptions, compulsory subjects and matters of detail.

Until the end of 1961, then, the curriculum committee and the academic board worked side by side on academic matters with which the institutions and the university were concerned. Whilst the academic board advised senate, the curriculum committee had executive powers.

Senate was advised on matters relating to university entrance and university scholarship examinations not only by the academic board but by the entrance board. Entrance to the constituent institutions and the agricultural colleges was determined on a national basis by examinations controlled by senate on the advice of the entrance board and the academic board.

The constituent institutions and agricultural colleges were governed by councils and boards of governors respectively which were advised on academic matters by professorial boards which were in turn advised by faculties.

As devolution proceeded, more authority was vested in the councils of the constituent institutions so that ultimately, when independent universities were established, the powers of ordinary university governing bodies would devolve upon them. Senate set up a committee to make recommendations concerning the completion of the devolutionary process and to determine what functions should remain central.

While the question of the future pattern of university education in New Zealand was thus

under discussion a critical situation was developing in regard to staffing and buildings, and serious problems had arisen in relation to university entrance, conditions of study, bursaries and university finance generally. The government decided to appoint a committee to advise on these questions and 'to indicate ways in which the university system should be organized to ensure that the long-term pattern of development is in the best interests of the nation'.

**THE PARRY COMMITTEE** The committee consisted of three members: Sir David Hughes Parry (chairman), then director of the Institute of Advanced Legal Studies, University of London; Dean G. Andrew, then deputy to the president of the University of British Columbia; and Dr R. W. Harman, chairman of the New Zealand Atomic Energy Committee. It began its sittings in September 1959 and reported in January 1960. The report dealt with almost every aspect of university education in New Zealand, including: the role of the university in the New Zealand community; the universities and New Zealand's economic development; the demand for and supply of university graduates; university entrance, part-time and extra-mural study, scholarships, bursaries and other financial assistance to students; salaries and conditions of recruitment and employment; university staffing; buildings and equipment; science and technology; new developments and new institutions; the separate universities; the University Grants Committee; university finance. (Copies of the report may be obtained from the government printer, Wellington, New Zealand).

The committee endorsed the proposed devolution of university administration. It stated that it considered that the point had now been reached 'when each of the four constituent universities (Auckland, Victoria, Canterbury and Otago) has to be granted the status, privileges, powers, duties, and responsibilities commonly enjoyed by a free and separate university'. The recommendations of the committee were, in the main, implemented promptly by the government. A new Universities Act, and other acts relating to the four separate universities, were passed in 1961, dissolving the University of New Zealand and bringing into operation in 1962 a new scheme of university administration.

#### STRUCTURE OF UNIVERSITY ORGANIZATION

Under the legislation of 1961 there are four semi-autonomous universities in New Zealand and two university colleges of agriculture\*. Coordination is secured through a University Grants Committee and other statutory and non-statutory committees, of which the most important are the Vice-Chancellors' Committee, the Curriculum Committee, the Universities Entrance Board, and sub-committees of the University Grants Committee.

The University Grants Committee is the central organization to negotiate with government

the grants necessary to meet the financial needs of university education and research in New Zealand. It has the responsibility of instating and considering, in consultation with the universities and other bodies, 'plans for such balanced university development as may be required to make the universities fully adequate to the needs of New Zealand'. The chairman of the committee is appointed by the governor-general after consultation between the minister of education, the chancellors and vice-chancellors of the universities, and the principals of the university colleges of agriculture. The other members are: four members who are not members of the council of any university and are not professors or teachers or other employees of any university, and three members who are professors or teachers in the universities.

The Vice-Chancellors' Committee consists of the vice-chancellors of the four universities and the principals of the two university colleges of agriculture. The meetings of this committee enable a wide range of common problems to be considered and greatly assist in the formulation of a uniform policy for all university institutions.

The Curriculum Committee, which is a statutory sub-committee of the University Grants Committee, has a vital role in the co-ordination of academic legislation. Each university may propose such course regulations as it thinks fit in respect of the structure and content of the courses for the degrees and diplomas which that university may confer, but these course regulations require the approval of the Curriculum Committee. The control formerly exercised by the academic board and senate of the University of New Zealand is thus continued, though in an attenuated form. The intention is not to impose uniformity and inhibit experimentation, but to attain—for a period at least—a procedure designed to maintain standards and to secure comparative equivalence of courses at the various universities. If a proposed academic development is likely to lead to the need for a special grant to support it, the approval of the University Grants Committee must also be obtained. The Curriculum Committee consists of the chairman of the University Grants Committee, the vice-chancellors and principals of the universities and agricultural colleges, the director of education, and four professors appointed by the University Grants Committee (one from each university district).

The Universities Entrance Board has as its principal function the maintenance of a common educational standard as a prerequisite for entrance to the universities. The board includes five university teachers and five others who are either schoolteachers or officers of the department of education, together with a chairman appointed by the University Grants Committee. The board controls the university entrance examination and the examination for entrance scholarships.

Funds provided by government for university research, which now amount to £100,000 annually,

\* See also footnote to p. 743.

are administered by the Research Committee (a statutory sub-committee of the University Grants Committee).

**THE UNIVERSITY INSTITUTIONS** Within the framework of controls exercised by the University Grants Committee and the other bodies already mentioned each of the four universities has substantial autonomy, with independent status and the power to confer its own degrees. Each university is governed by a council which is advised in academic matters by a professional board (named, at Auckland and Otago, 'the senate'). Lincoln College, previously known as the Canterbury Agricultural College, is now a constituent college of the University of Canterbury. Massey College\*, previously known as the Massey Agricultural College, is now a university college of agriculture in association with the Victoria University of Wellington. The colleges teach for degrees of the University of Canterbury and the Victoria University of Wellington respectively, but they have in addition the right which they have had for some years, to award diplomas and certificates in the fields of study for which they teach.

**RELATIONSHIP TO GOVERNMENT** The universities and the university colleges of agriculture are independent of direct government control in academic matters except in so far as new proposals may require legislation by parliament (which will rarely be necessary) and with the further exception that the procedure for introducing new degrees or diplomas at any university requires government assent.

In financial matters, both with regard to annual grants (which were and are negotiated on a quinquennial basis) and grants for capital items including buildings, the financial needs of the institutions and colleges are put before the Grants Committee by the various councils and boards of governors and these are then sifted and collated by the committee before being presented to the government.

The government has established a University Works Committee, which includes representatives of the grants committee, the department of education, the ministry of works and Treasury. This new committee acts as an expert committee to advise the University Grants Committee. It scrutinizes building proposals referred to it by the latter committee, and presents to the government fully documented recommendations concerning university buildings.

**FINANCE.** The total recurrent income of the universities and the agricultural colleges for the year 1961 was approximately £3,250,000 of which £2,030,000 was from government sources, £270,000 from fees and £50,000 from endowments and other sources.

**PRE-UNIVERSITY EDUCATION** The normal pre-university education is six years at primary school, two years at intermediate school (or, alternatively,

eight years at primary school) followed by four years at post-primary school, at which time the university entrance examination is normally taken. A further year at post-primary school leads to a higher school certificate or to the competitive university entrance scholarship examination. Students who intend to enter the university are strongly encouraged to spend this extra year at school and the majority do so.

To pass the university entrance examination the candidate must pass in English and three other subjects from a fairly wide list.

Candidates for university entrance may either sit the prescribed examination or be accredited by the headmaster of their school. Only certain schools, approved by the universities entrance board, have power to accredit. General liaison is maintained on the many questions relating to entrance, and on the accrediting process in particular schools, by liaison officers. One liaison officer is attached to the staff of each of the universities with the status of senior lecturer.

Adequate provision is made for the recognition of the entrance examinations of other universities.

**ADMISSION** Until recently, all qualified applicants for admission to the university (i.e. those who have passed the university entrance examination or have been accredited by their schools with a pass in this examination, and those who have secured an equivalent overseas qualification) have been accepted without any further selection. It is likely, however, that accommodation problems will require some selection to be made in the near future, particularly in science and engineering courses. Admissions to professional courses in medicine and dentistry are limited and from time to time competitive on the results of the first-year (intermediate medical or dental) university examinations.

*Ad eundem* admission to postgraduate study and research is determined by each university following individual application. It is usual for applicants from Commonwealth and most other countries, who are adequately qualified to proceed to higher degrees in their own universities, to be permitted to register and pursue a course of study leading to a higher degree in the universities of New Zealand.

**STRUCTURE OF DEGREE COURSES.** Each of the four universities provides degree courses in arts, commerce, law, music and science. Courses for various other professions are provided as follows: Auckland—architecture, engineering and fine arts; Canterbury—engineering and fine arts; Otago—dentistry, home science, medicine, mining and physical education; Wellington—political science, public administration and social science. See also p. 747.

Courses for the first degrees of BA, BSc and BCom require a minimum of three years' study and are made up of units. Each unit represents one year's work in a subject, e.g. eight units are

\* With effect from Jan. 1, 1963, Massey College and Palmerston North University College were merged as Massey University College of Manawatu.

required for BSc degree and nine units for BA degree. Honours are awarded for the bachelor's degree in architecture, science, engineering and music. A candidate having graduated with a bachelor's degree may in certain faculties proceed to a course (one or two years), which is partly a lecture course and partly research or other original work, for a master's degree with or without honours, according to the standard of attainment. There is, in addition, a course at the Victoria University of Wellington for BSc honours which is a postgraduate course including written examination papers but not a research thesis.

The minimum number of years of study for other first degrees is as follows: BAgr, three years; BHSc, BAgrSc, BArch, BE (civil, electrical, mechanical, metallurgical, or mining), MuxB, LLB, four years; BE(Chem), BE hon., BDS, BMedSc, five years; MB ChB, six years.

Professional courses in special schools are normally preceded by an intermediate course (one or two years) which may be taken at any of the universities. Courses in agriculture leading to BAgr and BAgrSc may be taken wholly at the agricultural colleges or the first-year intermediate course may be taken at any of the universities. Examinations for bachelor's and master's degrees are taken annually in October/November.

Advanced postgraduate study usually involves original supervised work together with some tutorial and discussion-type instruction. Normally there is no organized lecture course leading to a written examination, although the candidate may be required, if his thesis or dissertation is not wholly acceptable, to subject himself to some further examination.

**TEACHING STAFF** The grades of staff within the universities are: (1) professors, (2) associate professors, who are lecturers of especial personal merit or distinction, (3) senior lecturers, (4) lecturers, (5) assistant or junior lecturers.

The usual teaching method is the formal lecture, but increasingly at all stages seminars, tutorials and informal discussion methods are being introduced. In most departments there is reasonable time available for personal research and study, but the teaching load is generally somewhat greater than in universities in the United Kingdom.

Members of staff (1-4 above) may expect leave for up to one year for travel and study overseas every six or seven years. Conditions of leave vary somewhat from one university to another, but usually provide for full salary, a travel allowance and a maintenance grant dependent on the circumstances.

There is a national scale of salaries for university teachers which is determined by government on the recommendation of the University Grants Committee. Following the publication in January 1960 of the Perry report, government approved the following salary scales as from April 1, 1960: Academic heads of constituent institutions £3300, agricultural colleges £3100, Professors, £2800; associate professors, £2250; senior

lecturers (heads of departments) (2) £100, 1) £50, £1000-£2150, senior lecturers (2) £100, 1) £50, £1750-£2000; lecturers (2) £75, £1250-£1700, assistant lecturers (2) £50, £900-£1100.

Superannuation is available under the NZ government superannuation scheme. There is a limited scheme by which appointees to New Zealand with FSSU rights may have their FSSU premiums paid for them for up to five years. The usual method of appointment is by advertisement, it is not usual for posts to be filled by invitation. Advertisements are normally placed in appropriate newspapers and journals in New Zealand and the United Kingdom and occasionally in other Commonwealth countries. Persons of foreign nationality are considered for appointment, subject to compliance with immigration requirements.

**STUDENTS** Whilst the universities recognise the importance of full-time academic study, this ideal has not been fully realized, particularly in arts, commerce, law and music courses. It is virtually impossible to take degree courses in architecture, dentistry, engineering, home science, medicine, mining or science except as a full-time student. Of some 15,000 internal students, rather less than half are part-time; a further 1400 are external students registered with a university, but permitted to pursue their courses through private study, provided they pass the examinations conducted each year.

Relatively few students live in halls of residence, the proportion being highest in Otago and lowest in Auckland and Wellington. Student corporate life is focused on the students' union controlled by an elected student executive which organizes a full programme of cultural and sporting activities through the various societies and clubs. Student health services exist in most of the universities and there are usually also counsellors or tutors and lodgings officers. There is no appointments board or overseas universities information bureau, but at Wellington steps are being taken to establish a placement service for graduates.

Tuition fees generally range from £15. 15s. to £31. 10s. per subject. Thus, for example, total tuition and examination fees for a BSc course may come to approximately £200. The students' association fee is approximately £4 per annum.

A new system of university bursaries was introduced in 1962. A bursary covering tuition fees only may be awarded to a student who has the university entrance qualification. A bursary covering tuition fees and a cash allowance may be awarded to a student who has obtained a higher school certificate and is pursuing a full-time university course. Bursaries are tenable, in general, for the minimum period required for a full-time student to complete the course. The allowances are: first year, £40; second and third years, £50; fourth or fifth year, £100. Bursaries covering tuition fees and an allowance of £100 may also be awarded for one year to students

taking a full-time course for a master's degree. Bursaries are supplemented by a boarding allowance if the student lives away from home. In general, bursaries are not awarded to overseas students admitted to New Zealand on a study permit. Many students supplement their bursary incomes with vacation employment, some students who for one reason or another are ineligible for bursary awards are able, by working throughout the long vacation, to finance themselves for full-time study during the university session.

The approximate annual cost of study and residence for a full-time student from overseas is as follows: tuition, examination and miscellaneous fees, £600-£800; board (either private or hostel during term and private during vacation), £300; clothes, books, travel, etc., £150-£200.

A very considerable increase in the number of university students is expected in 1962 and subsequent years, this arises partly from immigration, but mainly from the high level of the birth-rate in the 1940s.

**ACADEMIC YEAR AND VACATION COURSES** The academic year consists of three terms of approximately nine, eleven and six teaching weeks with short vacations between first and second and second and third terms. It begins in early March and ends in late November. There are no vacation courses for degree purposes, but engineering and some other students undergo practical training in works or field camps during the vacations.

**EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION** The universities control, through the regional councils for adult education, various extension and other courses for non-university students within their respective districts. The universities also play some part in the activities of the Workers' Educational Association. For this work special grants are paid to the universities from the National Council of Adult Education, a body established under a separate Act of Parliament.

**INTER-UNIVERSITY ORGANIZATIONS** The universities, through their vice-chancellors, maintain liaison with the Australian vice-chancellors. The professors and lecturers are mostly members of the Association of University Teachers (secretary: R. Shepherd, School of Engineering, University of Canterbury, Box 1471, Christchurch 1, New Zealand) which is organized on a regional and national basis. The students' associations in the various centres adhere to the New Zealand University Students' Association (address: P.O. Box 6397, Te Aro, Wellington).

**THE UNIVERSITY TO-DAY** A great increase in student numbers is expected in the next few years, and to cope with this an extensive building programme is under way. In its first phase a dental block at Otago, an engineering school at Canterbury and a science block at Victoria were built and the following buildings are now in course of planning or construction. *Auckland*: a fine arts school under construction, a chemistry,

physics and mathematics block planned, and an arts and library building and engineering school in prospect; *Wellington*: arts and library building under construction; *Canterbury*: science school under construction; *Otago*: arts and library building in the final stages of planning; *Massey*: a veterinary school being planned; *Levin*: science teaching block being planned; *Hamilton*: the first teaching and administration block of about 20,000 sq. ft. being planned.

Apart from mere expansion in size the university system already shows the effects of the autonomy granted to the separate institutions. There are unmistakable signs of diversity and experimentation, and a notable increase in the tempo of research activity. It has also been demonstrated that even unco-ordinated activities at different centres may neatly combine to achieve, in effect, more than was achieved under the previous regime. In regard to music, for example, one well-informed commentator has summed up recent developments in the universities' departments of music by saying that 'almost without knowing it, New Zealand has what has long been wanted, a lively National School of Music'.

In July 1960 and April 1962 reports were made by the Commission on Education in New Zealand. This commission was set up to report on almost all aspects of education other than those directly relating to the universities (which were the subject of the report of the Parry committee). The recommendations in the extremely comprehensive report of this commission, though specifically referring to primary and post-primary education, are of vital concern to the universities, not only because they deal with the education of those who will later enter the universities, but also because of major reorganization which is suggested in regard to the training of teachers. If these proposals are adopted by the government the universities will assume some direct responsibility and will collaborate in the work of new agencies which are to be established for teacher training.

It is expected that legislation will be passed during 1962 to effect the amalgamation of Massey College with Palmerston North University College (see footnote to p. 743).

**INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES** The universities in New Zealand have a dominant role in higher and adult education. Some government departments, however, play a part in giving specialized technological training to employees, as also do some of the larger industrial enterprises. Nurses, dental nurses and teachers are trained by government departments or local authorities, although post-primary teachers, in particular, and many primary as well, also take university courses. Teacher training colleges are established in or near all the university centres. As already mentioned, the Commission on Education has recommended extensive reorganization in this field.

The technical school system, including the education department's technical correspondence

school, offers some professional courses, such as engineering and accountancy. Hitherto, however, the technical schools have been mainly concerned with vocational and apprentice training. But there is a growing development of systematic training for technicians and others occupying a middle place between the university-trained technologist and the tradesman. A significant start was made with the introduction of a New Zealand certificate of engineering for which courses are given at the large technical colleges, and there has since been extremely rapid growth in this direction. There are now separate

polytechnical institutions at Auckland, at Petone (which has a school of pharmacy), and at Wellington.

An independent Council of Legal Education controls the examinations for admission to the legal profession, but the courses provided by the universities are at present accepted by the council for this purpose. Candidates for professional admission take the same examinations as those conducted by the universities for the LLB degrees.

**PUBLICATIONS.** See Appendix VI and the 'Publications' section of the catalogues for the universities and associated institutions, below.

## DIRECTORY TO SUBJECTS OF STUDY

(See also table on p. 747)

The following subjects may be studied, as part of the course leading to a first degree and/or at postgraduate level, at all of the universities in New Zealand: accountancy, botany, chemistry, classics, economics, education, English, French, geography, geology, German, history, law, mathematics, music, philosophy, physics, political science, psychology, zoology.

For details of the agricultural subjects which may be studied at Lincoln College and Massey College, see the college entries on pp. 759-761 and 775-778.

The table on p. 747 shows which of the universities provide facilities for study or research in a number of other subjects. The letter U means that the subject can be studied, at the university indicated, only at the undergraduate stage as part of the course for a first degree, or for a diploma, certificate, etc.; the letter B means that the subject can be studied at the university indicated at undergraduate and postgraduate levels; the letter P means that the subject can be studied at the university indicated only at postgraduate level.

## STATISTICS

### STUDENT NUMBERS, 1961

(as at July 1, 1961)

	Full-Time	Part-Time	External
Men	6585	5247	1098
Women	2153	1533	342
Total	8738	6780	1440

Distribution by Faculties. Agric., 1265; archit., 371; arts, 5634; comm., 2626; dent., 177; div., 51; educ., 178; engin., 88; fine arts, 309; home sci., 186; law, 1107; med., 590; music, 131; phys. educ., 106; physiotherapy, 67; pub. admin., 12; radiol., 10; sci., 3137; soc. sci., 18; technol., 74; other, 28. Total: 16,958.

Included in the figures above are—

Postgraduate students, 1064

New admissions, 4180

Students from other countries, 305. (Countries from which largest numbers came: Pacific area, S.E. Asia).

**DEGREES AWARDED (1961)** Agric.: BAgric, 6; BAgrSci, 54; MAgrSci, 6. Archit.: BArch, 2. Arts.: BA, 547; MA, 192. Comm.: BCom, 88; MCom, 2. Dent.: BDS, 38; MDS, 3. Div.: BD, 2. Engin.: BE, 145; BE(hons.), 38; ME, 8. Home sci.: BHSci, 10. Law: LLB, 86; LL.M., 5. Med.: BMedSci, 1; MB ChB, 80; MD, 7. Music: MusB, 6; MusB(hons.), 5. Sci.: BSc, 260; BSc(hons.), 15; MSc, 105; DSc, 5. PhD (all facs.) 13. Total number of first degrees awarded, 1398.

**DIPLOMAS AWARDED (1961)** DiplBanking, 8; DipEd, 34; DipFineArts, 19; DipFineArts(hons.), 11; DipMusci, 10; DPh, 4; DipMirc, 1.

For Table showing facilities for study and research, see opposite.

NEW ZEALAND DIRECTORY TO SUBJECTS OF STUDY (see p. 746)—TABLE  
SHOWING FACILITIES FOR STUDY AND RESEARCH

Note.—For subjects which can be studied at all of the universities in New Zealand, see p. 746.

For an explanation of the letters U, B, P, see p. 746	Auckland	Canterbury	Otago	Victoria
Ancient History	U	U		
Anthropology	B		U	
Architecture	B			
Asian Studies				B
Biblical History & Literature	B			
Biochemistry			B	B
Biology	U			U
Clinical Psychology		U		
Dentistry			B	
Economic History		U		U
Engineering, Chemical		B		
Civil	B	B		
Electrical	B	B		
Mechanical	B	B		
Fine Arts	U	U		
Hebrew	U		B	
Horn Science			B	
Italian	B			U
Latin Studies	U			
Medicine/Medical Sciences			B	
Microbiology	U		B	
Mining & Metallurgy			B	
New Zealand History	U			U
Obstetrics & Gynaecology	P		B	
Pacific & Asian History		U		
Pharmacy			U	
Physical Education			U	
Physiology			B	
Public Administration				U
Public Health			U	
Religious Studies		U		
Russian	U	B	U	B
Social Science				U
Sociology		U		U
Spanish	U			
Teaching English as second language				U
Theology			B	
Town Planning	U			
Urban Valuation	U			



# UNIVERSITY OF AUCKLAND\*

Founded 1957; previously established as University College, 1882

Postal Address: Box 2175 C.P.O., Auckland, New Zealand

Cables and Telegrams: University, Auckland

Telephone: 30-060

VICEROY—H. E. THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—SIR DOUGLAS ROSS, CMG, BSc MD ChM N.Z., FRCS, Hon. FACS

PRO-CHANCELLOR—W. H. COOPER, MA N.Z.

VICE-CHANCELLOR—K. J. MAIDMENT, MA OXON

REGISTRAR—J. A. KIRKNESS, JP, MCom N.Z.

LIBRARIAN—F. A. SANDALL, BA N.Z., FLA

## TEACHING STAFF

[†=Part-Time]

### Accountancy

.....	Prof
Johnston, T. R., PhD Camb, BCom N.Z., LLM Melb & N.Z., FRANZ	Assoc. Prof.
Lays, W. C. S., MA LLM N.Z.	
(Comm. Law)	Sr. Lectr
Field, J. E., MCom N.Z.	Sr. Lectr
McClew, J. McL., MCom N.Z.	Sr. Lectr
Tabb, J. B., BCom N.Z.	Lectr.
Kennedy, B. A., LLB N.Z.	†Lectr
Twenty, M. K., BCom N.Z.	†Lectr
Davis, A. E., DFC, BCom N.Z.	†Lectr

### Anthropology

Paddington, R. O., PhD Lond., MA Syd.	Prof
Biggs, B. G., PhD Indiana, MA N.Z.	Sr. Lectr
Green, R. C., BA BS New Mexico	Sr. Lectr
Groves, M. C., BA Melb., DipAnthrop	
DPhil Oxon.	(on leave) Sr. Lectr.
Bulmer, R. N. H., BA Camb,	
PhD A.N.U.	Sr. Lectr
Beckett, J., BA Lond., MA A.N.U.	Lectr
Shawcross, F. W., BA Camb	Lectr
Scobie, R. A., MA Lond.	†Lectr.
Taylor, R. S. T., DDS N.Z.	†Lectr

### Architecture

Light, A. C., BA Lond, FRIBA, FNZIA	Prof
Toy, R. H., PhD Dub, BArch N.Z.	
(Design)	Prof.
Woodard, F., MArch N.S.W., FRAIA	
(Construct)	Prof
Marshall, A. C., BArch N.Z.	Sr. Lectr.
Brown, V. A.	Sr. Lectr.
Cutter, C. G.	Sr. Lectr.
Brett, M., DipArch Liv	Sr. Lectr

Muddleton, P., DipArch Nott.	Sr. Lectr
Neal, A. W., BArch N.Z.	Sr. Lectr.
Porsolt, I. V., DipArchEng Prague	Sr. Lectr.
Smith, G., BArch N.Z.	Sr. Lectr.
McClellan, E. C., BArch N.Z.	Sr. Lectr.
Jaine, W. O., BArch N.Z.	Sr. Lectr.
Marshall, A. H., BArch BSc N.Z.	Sr. Lectr.
Rockel, R.	Sr. Lectr
Wallace, H. E., BSc MSc N.Z.	Sr. Lectr.
Noble, F. E. R., DipUrbVnl	†Lectr
Sanders, R. A., LLB Lond. & N.Z.	†Lectr
Mahoney, J. D., DipUrbVnl	†Lectr.

### Botany

Chapman, V. J., MA PhD Camb., FLS	Prof.
Mallener, L. H., PhD Camb., MSc N.Z.	
(Genetics)	Assoc. Prof.
Rattenbury, J. A., PhD Calif., MA Br.Col	
(Genetics)	Sr. Lectr.
Brown, J. M. A., MA PhD Durk.	Sr. Lectr.
Segar, Evelyn C., MSc N.Z.	Lectr.
Quinn, C. J., BSc Tas.	Jr. Lectr

### Chemistry

Llewellyn, D. R., DSc Birm., DPhil Oxon., FRIC, FNZIC	Prof., Dir. of Labs
Briggs, L. H., DPhil Oxon., DSc N.Z., FNZIC, FRSNZ	Prof
Odell, A. L., PhD Lond., MSc N.Z.	Assoc. Prof
Maslen, H., MSc N.Z.	Sr. Lectr
Hall, D., MSc PhD N.Z.	Sr. Lectr.
Seelye, R. N., MSc N.Z., DPhil Oxon.	Sr. Lectr.
Swedlund, B. E., MSc N.Z., PhD Lond	
Turney, T. A., MSc N.Z.	Sr. Lectr

\* Member of the Association of Universities of the British Commonwealth

Oliff, R. W., MSc *N.Z.*  
 Crambo, R. C., MSc PhD *N.Z.*  
 Thomp, J. M., BSc PhD *Land*  
 Waters, T. N. M., MSc PhD *N.Z.*  
 Bishop, Chaimson J., MSc *N.Z.*  
 Davis, B. R., MSc PhD *N.Z.*, DPhil *Oxon*  
 Waters, Miss. Joyce M., MSc PhD *N.Z.*  
 Wright, G. A., DPhil *Oxon*, MSc *N.Z.*  
 Paden, J. E., MSc PhD *Land*  
 Whitt, G. R., MSc *N.Z.*

Lectr. De Bray, B. P. G., MSc *Land*, MIMechE  
 Lectr. (Aeronaut. E) Sr. Lectr.  
 Lectr. Thomass, L. H., BSc BE(Civil) *N.Z.*  
 (Civil E) Sr. Lectr.  
 Glover, J. H., BSc *Land*. (Mech. E) Sr. Lectr.  
 McMullen, J. J., BSc *Land*. (Electr. E) Sr. Lectr.  
 Taylor, P. W., BSc BE *N.Z.* (Civil E) Sr. Lectr.  
 Raudinvi, A. J. (Civil E) Sr. Lectr.  
 Egan, B., BE(Electr.) BA *N.Z.*  
 (Electr. E) Sr. Lectr.  
 Lee, K. C., BE(Civil) *N.Z.* Sr. Lectr.  
 Sr. Lectr.  
 Stephenson, J., BSc *Land*. (Mech. E) Sr. Lectr.  
 Treman, A. C., BSc *Land*.  
 (Electr. E) Sr. Lectr.  
 Callender, R. A., BE(Civil) *N.Z.*  
 (Civil E) Sr. Lectr.  
 Jones, R. A., BE(Civil) (Civil E) Sr. Lectr.  
 Ringier, K. L. M., Dupling *Mech.* (Mech. E) Sr. Lectr.  
 BA  
 Smith, P. D., BSc(Rng) *Land*. (Mech. E) Sr. Lectr.  
 Miller, J. B., MB(Civil) *N.Z.* (Civil E) Jr. Res. Fellow

## Classics

Blacklock, E. M., MA LittD *N.Z.* Prof.  
 Crawley, L. W. A., BA Camb., MA *N.Z.* Assoc. Prof.  
 Harris, B. F., MA *Oxon*, BA BD *N.Z.* Sr. Lectr.  
 Minn, H. R., BD PhD *Land*,  
 MA *Land* & *N.Z.* Sr. Lectr.  
 Richardson, W. F., MA *N.Z.* Lectr.  
 Cowlan, R. G., MA Camb. (Anc. Hist.) Lectr.

## Economics

Simken, C. G. F., DPhil *Oxon*, MA *N.Z.*,  
 Dip SocSci *Well* Prof.  
 Bernaudelli, H., DrPhil *Frank* Assoc. Prof.  
 Lloyd Fichard, Marcel F., MA *Wales*,  
 PhD Camb. Sr. Lectr.  
 Brownlie, A. D., MCom *N.Z.*  
 (on leave) Sr. Lectr.  
 Bease, G. P., DPhil *Oxon*, MCom *N.Z.* Sr. Lectr.  
 Lectr.

## Education

Winterhoun, R., PhD *Land*, MA  
 DipEd *N.Z.* Prof.  
 Cumming, I., PhD *Land*, BA MED *Mob.*,  
 FRHist Sr. Lectr.  
 Minogue, W. J. D., PhD *Oho State*,  
 MA *N.Z.* Sr. Lectr.  
 Barney, W. D., MA DipEd *N.Z.*,  
 PhD *Land* Sr. Lectr.  
 Hare, W. B., MA DipEd *N.Z.* Sr. Lectr.  
 Arvidson, G. L., MA *N.Z.*, PhD *Land* Lectr.  
 Lovegrove, M. N., MA *N.Z.* Lectr.  
 McAlpine, D. M., MA *N.Z.* Lectr.  
 McNaughton, A. H., PhD *Calif.*,  
 MA *Calif.* & *N.Z.*, DipEd *N.Z.* Lectr.  
 Lectr.  
 Clay, Mrs. Marie, MA DipEd *N.Z.* †Lectr.

## Engineering

Monbray, N. A., BE(Civil) *N.Z.*, MICE  
 (Civil E.) Prof.  
 Titbener, A. L., ScD *M.I.T.*, BE(Mining)  
 BSc BE(Mech) *N.Z.* (Mech. E.) Prof.  
 Bogle, A. G., DPhil *Oxon*, BE(Electr.)  
 Mech) *N.Z.*, MICE (Electr. E.) Prof.

## English Language and Literature

Musgrove, S., MA DPhil *Oxon*. Prof.  
 Joseph, M. K., BLat *Oxon*, MA *Oxon* &  
*N.Z.* Assoc. Prof.  
 Reid, J. C., MA DLitt *N.Z.* Assoc. Prof.  
 Sheppard, Elizabeth A., MA PhD *Land* Sr. Lectr.  
 Carnow, T. A. M., BA *N.Z.* Sr. Lectr.  
 Crawford, T., MA *Eds* & *N.Z.* Sr. Lectr.  
 Peerson, W. H., PhD *Land*, MA *N.Z.* Sr. Lectr.  
 Cameron, W. J., MA *N.Z.*, PhD *Rdg.* Sr. Lectr.  
 Stead, C. K., MA *N.Z.*, PhD *Eds* Lectr.  
 Day, P. W., MA *Oxon* & *N.Z.* Lectr.  
 Dame, P., MA *Leic* Lectr.  
 Tampion, R. N. J., BA *Oxon*. Lectr.

## Fine Arts, Elam School of

Readle, P. J. Prof.  
 Kavanagh, J. F. (Sculpture) Sr. Lectr.  
 McLaren, A. W. S.  
 (Painting & Figure Drawing) Sr. Lectr.  
 Ellis, R. W. (Design) Sr. Lectr.  
 von Meier, K. E., BA *Calif.*, MA *Frank*  
 (Hist. & Theory of Fine Arts) Sr. Lectr.  
 White, Anna L. (Painting & Figure Composition) Lectr.  
 Tapper, G. P., DipFineArts *N.Z.* (Painting) Lectr.  
 Saunders, J. D., DipFineArts *N.Z.* (Design) Lectr.  
 Miller, Rachel G., DipFineArts *N.Z.*  
 (Graphic Art) Lectr.  
 Allen, W. R. (Sculpture) Lectr.

## French, see Romance Langs.

## Genetics, see Bot.

**Geography**

Cumberland, K. B., MA Lond, DSc N.Z.	Prof
Fox, J. W., BA Lond	Sr Lectr
Dalrymple, J. N., MSc PhD Lond	Lectr
Faulding, G. J., MA N.Z., PhD Calif	Lectr.
Fraser, A. S., BSc Aberd	Lectr
Gorrie, Averiside M., MA N.Z.	Lectr
Keddie, P. D., MA W.A.	Lectr

**Geology**

Lalile, A. R., MA Camb, DSc Geneva	Prof.
Brothers, R. N., PhD Lond., MSc N.Z., FGS	Assoc Prof
Searle, E. J., DSc N.Z.	Assoc Prof
Bullance, P. F., BSc PhD Lond	Lectr.
Grant-Mackie, J. A., MSc N.Z.	Lectr

**German**

Asher, J. A., MA PhD Berle	
(on leave) Prof., Hd. of Dept	
Marleya, R., BA Oxon., PhD Gött.	Sr Lectr
Dronacher, W. O., MA N.Z.	Lectr
Stanchcombe, J., BA Berle	Lectr
Cassellon, Mrs Alexandra, BA N.Z.	
(Russian) Js. Lectr	
Strauss, Alice, DPhil Prague	† Lectr.

**Hebrew**

Hames, E. W., MA N.Z.	† Lectr
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**History**

Rutherford, J., MA Durh., PhD Mash.	Prof.
Sinclair, K., MA PhD N.Z.	Assoc. Prof.
Chapman, R. M., MA N.Z.	Sr. Lectr.
Pennaby, O. W., DPhil Oxon., BA Mash.	
O'Connor, P. S., BA Oxon. & N.Z.	Sr. Lectr.
O'Dowd, Betty M., MA N.Z.	Sr. Lectr.
Miller, J. O., MA PhD N.Z.	Lectr.
Roy, W. T., MA Lond	Lectr
Kelly, G. M., MA LLB N.Z.	Lectr
McLean, A. C., MA	Jr. Lectr.

**Italian, see Romance Langs****Law**

Davis, A. G., LL.D Lond, LL.B N.Z.	Prof
Northey, J. F., Djar Tor., BA LL.M N.Z.	
(Public L.) Prof	
Sin, P. B. A., LL.M N.Z.	Sr. Lectr
Whelan, D. J., LL.M N.Z.	Sr Lectr
Coote, B., PhD Camb., LL.M N.Z.	Sr Lectr
Hinde, G. W., LL.M N.Z.	Sr Lectr
Vautier, M. H., LL.M N.Z.	† Lectr.
Connell, B. F., LL.B N.Z.	† Lectr

**Mathematics**

Chong, F., MA Camb, PhD Iowa State, MSc Syd	Prof
Segedin, C. M., PhD Camb, MSc N.Z.	Assoc Prof.

Kalman, J. A., MA N.Z., PhD Harv.

	Assoc Prof
Hookings, G. A., MSc Camb. & N.Z.	Sr. Lectr
Segedin, M. G., MSc N.Z., MA Indiana	
	Sr Lectr.
Wilkins, C. A., MSc N.Z.	Sr. Lectr.
Whale, J. F., MSc N.Z.	Lectr.
Hart, E. A., MA N.Z.	Lectr.
Tills, A. W., MSc N.Z.	Lectr
Nield, D. A., BA Camb., MSc N.Z.	Lectr
Rosser, U. S., MSc MusB N.Z.	Lectr

**Medicine**

	(Obstet. & Gynaecol.) Prof.
Green, G. H., BA BSc MB ChB DObet N.Z.	
(Obstet & Gynaecol.) Sr. Lectr.	
Liggins, G. C., MB ChB N.Z., FRCSd,	
FRACS (Obstet & Gynaecol.) Lectr.	
Liley, A. W., PhD A.N.U., BMedSc	
MB ChB N.Z.	Res Office

**Microbiology**

Mathews, R. E. F., PhD Camb, MSc N.Z.	Prof
Ralph, R. K., MSc N.Z., PhD N.S.W.	
	Sr Lectr

**Music**

Nakden, C., MusB Durh., MusD Lond	Prof
Rive, T. N., MusB N.Z.	Sr Lectr
Treman, A. R., DMus Lond,	
MusB N.Z.	Sr Lectr.
Godfrey, P. D. H., MA MusB Camb	Sr Lectr.
	Lectr

**Philosophy**

	Prof.
Pinnum, K. B., MA St And., BLitt Oxon.	
	Sr Lectr
Ardley, G. W. R., BA MSc Melb.	Sr Lectr.
Pearson, C. I., MA PhD Q'nd	Lectr
Ralls, A. E., MA Oxon	Lectr
Foutsman, E. A., MA N.Z.	† Lectr

**Physics**

Brown, D., PhD Brit.	Prof.
Kreiselheimer, K. S., Ding Darvestadt,	
FIP	Assoc. Prof.
Collins, E. R., PhD Burm., MSc N.Z.	
	Assoc Prof
Sager, F. H., MSc N.Z., FIP	Assoc Prof.
Mawson, D. G., MSc N.Z.	Sr. Lectr.
Whale, H. A., MSc N.Z., PhD Camb.	
	Sr. Res Fellow
Titheredge, J. E., MSc N.Z., PhD Camb	
	Sr Res. Fellow
Barnshaw, J. B., BSc Manc. (on leave) Sr. Lectr	
Keam, R. F., BA Camb., MSc N.Z.	Lectr
Schlup, F., BSc N.Z.	Lectr.
Clegg, R. J., MSc N.Z.	Lectr.
Garrett, R., BA MSc N.Z.	Lectr.
Poletti, M. J., MSc N.Z.	Res. Fellow
Naylor, H., MSc N.Z.	Res. Fellow

## Political Studies

## Psychology

Sangson, H. MA B.Sc., PhD McG  
 Anthony, W. S., MA DPhil Otago  
 Tong, J. E., BA BSc, PhD Stgff  
 Quinterman, D., MA N.Z.  
 Bernardelli, Mrs. Betty M., BA Camb.  
 Irwin, R. J., MA N.Z.  
 Corbally, M. C., MSc BA N.Z.

## Romance Languages

Keys, A. C., DUParis, MA N.Z. Prof.  
 West, A. W. H., DUParis, MA N.Z. Sr. Lectr.  
 Holliman, K. J., DUParis, MA N.Z. Sr. Lectr.  
 Bartocci, G., PhD Rome (Italian) Sr. Lectr.  
 Pollard, W. F., MA Dub. Lectr.  
 Butler, A. S. G., DUParis, MA N.Z. Lectr.  
 Schenker, Miss Gabrielle, BA N.Z. Lectr.  
 Higgins, B. H., BA Camb. (Italian)  
 Ross, Adelyn, MA St. And. (Spanish) Lectr.

## Russian, see German

## Town Planning

Kennedy, R. T., CBE Prof.  
 Rosenberg, G. Sr. Lectr.

## Zoology

Prof. Mouton, J. E., DSc PhD Lond., MSc N.Z. Prof.  
 Pendergrast, J. G., PhD Lond., MSc N.Z. Assoc. Prof.  
 Robb, Jean, MSc N.Z. Sr. Lectr.  
 Bergquist, Mrs. Patricia R., MSc (on leave) Lectr.  
 Miller, M., BSc PhD Lond. Lectr.  
 Gilpin-Brown, J. B., BSc PhD Brist. Lectr.  
 Cowley, D. R., MSc N.Z. Lectr.

## ADULT EDUCATION

Morrison, S. R., MA N.Z. Dir.  
 Tutor Organizers  
 McMillan, Sheila G., BHEc DipEd N.Z.  
 Bell, C. A., MA DipEd N.Z.  
 Dellow, R. G., MEd N.Z.  
 Farnett, Mrs. Vera M.  
 Redwood, L. R., MA BSc DipEd N.Z.,  
 PhD Lond.  
 to Han, M., BA  
 James, D. G., BA Otago  
 Metge, A. Joan, MA N.Z., PhD Lond.  
 Bessoff, F., PhD Calif., MA N.Z.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar: Kathleen Alison, JP, BCom  
 N.Z. Asst. Registrars: D. W. Pullar, BCom  
 N.Z. (Academics); A. H. Goerrings, BCom N.Z.  
 (Properties) Univ. Development Officer:  
 C. G. S. Ellis, OBE Liaison Officer with  
 Secondary Schools: K. S. Tutill, MA N.Z.

Asst. Liaison Officer: Ellie M. Boyd, MA DipEd  
 N.Z. Warden of O'Rourke Hall: D. J. Whalan,  
 LL.M. N.Z. Warden of Lazzab House: G. T.  
 Olver. MacLaurin Chaplain to the Univ.: D. G.  
 Summers, MA N.Z., BA Otago, BD Edin.

## GENERAL INFORMATION

Established by act of the N.Z. legislature in 1882.  
 Affiliated as a coll. of the Univ. of N.Z. in 1883,  
 and under ascending legism. in 1957 became the  
 Univ. of Auckland, a constituent instn. of Univ.  
 of N.Z. By further act of legislature in 1961  
 became an autonomous degree-granting univ.  
 The Waikato Branch of the Univ. was established  
 in 1960 at Hamilton, 80 miles from Auckland,  
 and offers a limited range of subjs. within the fac.  
 of arts.

**CONSTITUTION.** Governing body is the council  
 of 21 members, 3 apptd. by gov.-gen., 5 by  
 senate, 6 elected by grads., 1 by governing bodies  
 of secondary schs., 1 by students' assocn., the  
 Mayor of Auckland, and 3 apptd. by council  
 itself, together with the vice-chancellor of the  
 univ. The senate, an academic body consisting  
 entirely of members of staff, controls, under the  
 council, the academic affairs of the univ. The  
 vice-chancellor is, by statute, the chairman of  
 the senate.

**INCOME (1961).** Total, £775,968 (govt. grants,  
 88.5 per cent; fees, 9.3 per cent; endowment,

1 per cent; other sources, 1.6 per cent.)

**FACULTIES AND DEANS.** *Archit.*, Prof. A. C.  
 Light, arts, Prof. S. Musgrove (Engl.); *com.*,  
 Prof. L. W. Holt; *educ.*, Prof. R. Winterbourn;  
*engin.*, Prof. A. G. Bogle; *law*, Prof. A. G. Davis;  
*music*, Prof. C. Nalden; *sci.*, Assoc. Prof. F. H.  
 Sagar (phys.).

**UNIVERSITY PREMISES.** Main bldg. of univ.  
 occupy central site of 48 acres in Auckland (pop.  
 448,500), which is largest city of N.Z., situated  
 between 2 harbours.

**LOCATION.** All depts. on main precinct except  
 sch. of engin., at Ardmore, 20 miles south of  
 Auckland (tel. 597-458), chemist & gynaeol.  
 12 at Natl. Women's Hosp. (tel. 544-699).  
 Waikato branch is at Melville, Hamilton (tel.  
 Hamilton 83-200).

**LIBRARIES.** Approx. 156,000 vols., incl. the  
 separate libra. of the schs. of archt. and engin.,  
 and the Elam sch. of fine arts, the music dept. and  
 various sci. depts., the Waikato branch at Hamil-  
 ton. Bot. and geol. librs. incl. collections of

uncatalogued reprints. Paterson collection of classics and Old Testament hist. Libr. also has loan collection of about 1000 gramophone records, and 1000 art prints.

**LABORATORIES.** Bot., chem., educn., engin., geol., microbiol., obstet. & gynaeol., phys., psychol., zool.

**TEACHING HOSPITAL.** National Women's Hosp., controlled by Auckland Hosp. Bd., some 3 miles from the univ., houses the postgrad. sch. of obstet. & gynaeol.

**ADMISSION.** The N.Z. univ. entrance exam. or a recog. overseas equiv.

**FIRST DEGREE.** BA, BCom, BSc, 3 yrs.; MusB, BE(Civil), BE(Electr.), BE(Mech), 4 yrs.; LLB, BArch, 5 yrs.

**HIGHER DEGREES.** MA, MSc, MCom, LL.M., ME, MArch, 1 or 2 yrs.; PhD, 2 yrs. from master's degree; DLitt, DSc, LLD, MusD, 5 yrs. from lower qualifying degree.

**EXTERNAL STUDY.** Exemption from attendance at lectures in some non-sci. subjs. may be granted to country students resident in Auckland Univ. (geographical) district, and after private study exams can be completed by external study alone.

**DIPLOMAS.** Educn., urban valuation, each 2 yrs. postgrad. or 3 or 4 yrs. undergrad.; obstet., town planning, each 1 yr. postgrad.; educn., psychol., 2 yrs. postgrad.; fine arts, 3 yrs. with addnl. yr. for hon.; music, 3 yrs.; executive music (instrumental and voice trng.), 3 yrs.

**POSTGRADUATE COURSES.** The sch. of obstet. & gynaeol. offers specialist trng. to candidates for the MRCOG and special refresher courses for gen. practitioners. Trng. for specialist educn. counselling and remedial work undertaken in course for dipl. in educn. psychol. Postdoctoral courses offered in dept. of microbiol.

**RESEARCH.** Usual res. facilities available in labs. referred to above. Field work in anthropol. at sites in North Island of N.Z. and in islands of S.W. Pacific, marine biol. res. sta. establd. off

Rangitoto Island in Auckland harbour, field work in geog. and geol. in Auckland volcanic area, radio res., space communications and satellite tracking sta. at Sengrove, near Ardmore engin. sch. *Calendar* (publd. annually) contains lists of staff res. publica. and grad. theses.

**STUDY LEAVE.** Provision is made for periodical refresher leave on salary and sp. travel grants for sr. members of staff.

**FEEs.** Approx. inclusive annual tuition fees: archit., engin., £100; comm., law, £50; arts, £60; fine arts, sci., £70; music, £45.

**ACADEMIC YEAR.** March to Nov. = 3 terms.

**ADULT EDUCATION.** Dept. of adult educn. offers day and evng. extn. courses in most arts and some sci. subjs., also courses in Māori hist. and culture, drama and homecraft. No certs are awarded.

**BURSARIES.** A bursary scheme financed by govt. provides assistance for all N.Z. students and those intending permanent residence in N.Z. if they hold N.Z. entrance exam. or its equivalent.

**GRADUATES' ASSOCIATION.** Promotes interest in and support for univ. devel.

**STUDENT RESIDENCES.** O'Rorke Hall, Symonds St. (tel. 411-111), accomm. 85 m., 75 w. Fees: from £3 15s. 6d. for rooms shared by 3, to £4. 7s. 6d. for single rooms. Lamb House, Ardmore Sch. of Engin., accomm. 180 m. Fees: £3-15s.

**STUDENT HEALTH SERVICE.** Enrolment by students is voluntary. Interviews and exams conducted by pt.-time med. offices (D. B. Gosh, MB ChB N.Z., MRCP).

**STUDENTS' ASSOCIATION.** block is centre of student activities. It provides common rooms, cafeteria. Assocn. organizes a full range of cultural, religious and sporting socs. and clubs.

**PUBLICATIONS.** *Calendar* (Jan.), includes notices, courses and staff publi. lists; *Prospectus* (Feb.) of sp. schs. of engin., archit., fine arts, music, town planning; *Gazette* (quarterly); *Bulletin* (second), student newspaper, *Crosscut*

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. approaching completion: major block comprising studios, lecture theatre, library and admin. quarters for Blum sch. of fine arts.

**"NEW CHAIRS.** Acety., microbiol.; pol. studies.

**RETIREMENTS.** Assoc. Prof. W. G. T. Airey (hist.); Prof. R. P. Anschütz (philos.); C. Dawson (engin.); E. G. Ferriday (archit.); W. N. Jobson (engin.).

**RESIGNATIONS.** V. E. Argy (econ.); H. C. d'E. Bernclough (German); S. Cameron (geog.); R. B. Hollinsdale (music), to further studies in

music at Oxford; D. C. J. Maiden (engin.), apptd. to res. post with Gen. Motors Corp., California; D. J. E. Percy (engin.), apptd. res. engineer to aeron. dept., M.I.T.; D. M. Woolf (Italian).

## Statistics

### STUDENT NUMBERS, 1962

(as at July 1, 1962)

	Full-Time	Part-Time	External
Men	1848	1543	325
Women	574	505	92
Total	2422	2048	417

Distribution by Faculties: *Archit.*, 308, *arts*, 1986; *comm.*, 736; *engin.*, 402, *fine arts*, 100; *law*, 391; *music*, 57; *sci.*, 507. Total: 4887.

Included in the figures above are —

Postgraduate students, 238.

New admissions, 1312 (940 m; 372 w).

Students from other countries, 175. (Countries from which largest numbers came: *Fiji*, 54; *Malaya*, 32; *Tonga*, 16; *Siam*, 10; *Indonesia*, 10).

DEGREES AWARDED (by Univ. of N.Z.) (1961)

*Archit.*: BArch, 5; BArch hon., 3. *Arts*: BA, 130; MA, 20; MA hon., 38. *Comm.*: BCom, 15. *Engn.*: BE, 45; BE hon., 6. *MR*, 4. *Law*: LLB, 25. *Music*: MusB hon., 1. *Sci*: BSc, 76; MSc, 4; MSc hon., 26; PhD, 8; DSc, 1.

DIPLOMAS AWARDED (1961) By Univ. of N.Z.  
DipEd, 13; DipMus, 1; DipBank, 2; DipFine Arts, 5; DipFineArts hon., 3; DipObst, 20; DipTownPlanning, 6. By Univ. of Auckland  
DipArch, 16; DipEdPsych, 5; DipUrbVal, 8; ExecDipMus, 5.

## UNIVERSITY OF CANTERBURY\*

Founded 1873

Postal Address. P.O. Box 1471, Christchurch 1, New Zealand

Telephone. Christchurch 63-819

VISITOR—H. E. THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—C. H. PERKINS, CBE, BCom N.Z., FPANZ

VICE-CHANCELLOR AND RECTOR—L. L. FOWNALL, MA PhD N.Z.

REGISTRAR—G. G. TURBOT, MC, JP, BA BCom N.Z.

LIBRARIAN—C. W. COLLINS, MA N.Z., FLA

## TEACHING STAFF

[†=Part-Time]

## Accountancy

Carrington, A. S., MCom N.Z., FRANZ,  
FCISBattersby, G. B., PhD Lond, MCom N.Z.  
Devonport, F., MCom N.Z.  
Hopkins, R. W., MCom N.Z.Drake, B. J., BA LLB N.Z.  
Frampton, K. W., LLB N.Z.  
Holland, A. D., LLB N.Z.  
Jensen, K. J., BCom N.Z.  
Robertson, J. A., BCom LLB N.Z.  
Scott, L. E., BCom N.Z.  
Stanley, B. L., LLB N.Z.Prof  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
†Lectr.  
†Lectr.  
†Lectr.  
†Lectr.  
†Lectr.  
†Lectr.Christensen, M. T., MSc PhD N.Z. Sr. Lectr.  
Austin, J. M., MSc PhD N.Z. Sr. Lectr.  
Fischer, A., MSc PhD N.Z. Lectr.  
Topecon, R. D., PhD Lond, MSc N.Z. Lectr.  
Fergusson, J. E., PhD Lond, MSc N.Z. Lectr.  
Hartshorn, M. P., BSc Lond, DPhil Oxon. Lectr.  
Kirk, D. N., BSc PhD Lond. Lectr.  
Phillips, L. F., PhD Camb, MSc N.Z. Lectr.  
Wright, G. J., BSc N.Z. Asst. Lectr.

## Classics

Kidd, D. A., MA *Athen.* & *Camb.* Prof.  
Steven, Marion K., MA MII Chb N.Z. Sr. Lectr.  
Sumner, G. V., MA Oxon. Sr. Lectr.  
McGibbon, D. D., MA *St. And.* Lectr.  
Hosker, J. T., MA Oxon. Lectr.  
Hindley, H. N., MA *Camb.* Lectr.

## Botany

Philpott, W. R., BA *Camb.*, PhD Lond.  
(on leave) Prof.  
Arnold, B. C., MSc N.Z. Sr. Lectr.  
Sheat, D. E. G., PhD *Manc.*, MSc N.Z.Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Asst. Lectr.Mayer, Margaret, DSc Zar.  
Browne, G., MSc N.Z.  
Allen, J. D., MSc Edu.  
Barrows, C. J., MSc N.Z.  
Timaran, B. A., MSc N.Z.

## Economics

Danks, A. J., MA N.Z. Prof.  
Rosenberg, W., MCom N.Z., FRANZ.  
(on leave) Sr. Lectr.  
Miller, G. M., BA MCom N.Z. Sr. Lectr.  
Tay, F., BA *W. Aust.* Asst. Lectr.

## Chemistry

Packer, J., DIC, MSc *Melb.*, FRIC,  
FNZICProf.  
Prof.

Williams, C. J., DIC, PhD Lond, MSc N.Z.

Vaughan, J., MSc *Wales*, FNZIC Reader  
Metcalfe, W. S., DPhil Oxon., MSc Reader  
MusB N.Z. Sr. Lectr.  
Penfold, B. R., PhD *Camb.*, MSc N.Z. Sr. Lectr.

## Education

Field, H. E., PhD Lond., MA N.Z. Prof.  
Ford, C. T., MA N.Z. Sr. Lectr.  
Lawrence, P. J., MA PhD N.Z. Sr. Lectr.  
Lenz, E. O., BSc Lond, DipEd *Camb.*,  
MA N.Z. Lectr.  
Small, J. J., PhD Ohio, MA N.Z. Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Engineering, see below****English Language and Literature**

Garett, J. C., MA <i>Alta</i> & <i>Oxon.</i>	Prof
Rhodes, H. W., MA <i>Melb.</i>	Assoc. Prof.
Stockwell, A. W., BLitt <i>Oxon.</i> , MA BSc N Z	St Lectr
Baigent, L. A., MA N Z	Sr Lectr
Spear, C. E., MA N Z	Sr Lectr
Copland, R. A., MA PhD N Z	Sr Lectr
Turner, G. W., MA N Z.	(on leave) Lectr.
Fram, R. G., AM <i>Hon.</i> , PhD <i>Tas.</i> , MA BSc N Z	Lectr
Barrett, C. R., PhD <i>Berns</i> , MLitt <i>Camb.</i>	Lectr
Greenwood, E. B., MA BLitt <i>Oxon.</i>	Asst. Lectr
Ruthven, K. K., MA <i>Manc</i>	Asst. Lectr.

**Fine Arts**

Simpson, H. J.	Prof
Doudney, E. J.	Sr Lectr
Clark, R. S.	Sr Lectr
Burton, W. A., DipFA N Z	Sr Lectr
Askew, M. A.	Sr Lectr.
Oakley, W. J., DipFA N Z	Lectr.
Knight, J. N., DipFA N Z	Lectr.
Akins, Florence E., DipFA N Z	Lectr
Lowell-Smith, R. de B., DipFA N Z	Lectr
Gopes, R.	Lectr
Taylor, T. J., DipFA N Z	Lectr.

**Geography**

Waters, R. S., MA <i>Rdg</i>	Prof
Johnston, W. B., MA N Z	Sr Lectr
McCaskill, M., MA PhD N Z.	Sr Lectr
Soons, Jane M., BA <i>Sheff.</i> , PhD <i>Glas</i>	Lectr
Goulding, R. G., MA N Z.	Lectr
Rayner, J. R., BA <i>Birm.</i> , MSc <i>McG.</i>	Lectr
...	Lectr.

**Geology**

Allan, R. S., PhD <i>Camb.</i> , DSc N Z, FRSNZ, FGS	Prof.
Gage, M., DSc N Z, FRSNZ	Reader
Frost, M. J., BSc PhD <i>W.Aust.</i> , FGS	Lectr
Sevon, W., BA <i>Ohio Wesleyan</i> , MA <i>S.Dakota</i> , PhD <i>Ill</i>	Lectr
Cockburn, A. E., BSc PhD <i>Nott</i>	Lectr.
...	Lectr.

**History**

Phillips, N. C., MA N Z	(on leave) Prof.
Saunders, J. J., MA <i>Lond</i>	Sr Lectr
Gardner, W. J., MA N Z.	Sr Lectr
Parker, G. H. W., MA MLitt <i>Camb.</i>	Lectr
Catanach, I. J., PhD <i>Lond</i> , MA N Z.	Lectr
Adams, S. A. M., MA <i>Oxon.</i>	Lectr
Orange, G. V., BA <i>Hull</i>	Lectr
May, P. R., MA N Z.	Lectr

**Law**

Gray, H. R., LL.M. <i>Lond.</i>	Prof.
.....	Sr. Lectr

Kilbride, P. E., LL.M. N Z.

St. Lectr.

Bowling, R. H., LL.B. N Z.	Lectr
Cunningham, W. G. F., LL.B. N Z	† Lectr
De Golda, R. J.	† Lectr.
Drake, R. J., BA LL.M. N Z	† Lectr
Edgley, R. W., LL.B. N Z	† Lectr
Mount, R. J., BA LL.B. N Z.	† Lectr
Sanderson, G. C. C., LL.M. N Z.	† Lectr
Somers, E. J., BA LL.B. N Z	† Lectr
Wells, R. P., BA LL.M. <i>McCom N.Z.</i>	† Lectr.
Wood, S. H., MLitt <i>Camb.</i> , LL.B. N Z.	† Lectr
Burrows, J. F., LL.B. N Z.	Asst Lectr

**Mathematics**

Lawden, D. F., MA <i>ScD Camb</i>	Prof
Andress, W. R., MA <i>Camb.</i> , BSc <i>Manc.</i>	Prof.
De la Beze, J. C. W., MA <i>Camb.</i>	Sr Lectr.
Long, R. S., BA <i>Camb.</i> , MSc N Z	Asst. Prof
.....	(on leave) Sr. Lectr
Moon, B. A. M., MSc N Z.	Sr. Lectr.
Butcher, J. C., PhD <i>Syd</i> , MSc N Z.	Sr Lectr.
Hastings, W. K., MA PhD <i>Tas.</i>	Sr Lectr.
Harding, F. Mary, PhD <i>Edu.</i> , MA N Z	Lectr.
Robinson, D. F., BSc <i>Lond</i>	Lectr
Bernau, S. J., BA <i>Camb.</i> , MSc N Z.	(on leave) Lectr
Bryant, P. J., BA <i>Camb.</i> , MSc N Z	(on leave) Lectr
.....	Lectr

**Modern Languages**

Sussex, R. T., MA LL.B. <i>Melb.</i> , DU <i>Paris</i>	(on leave) Prof
Caster, T. E., BA <i>Lond</i>	Sr Lectr
Troup, G. S., LL.B. <i>Palmer</i> , MA N Z.	Sr Lectr
De Laberis, E., MA DipEd <i>Vladivostok</i> , LL.B. <i>Paris</i>	Sr. Lectr
Levy, Naim M., MA N Z.	Lectr.
Brooks, A. N., MA N Z	Lectr
O'Neill, K. M., MA <i>Melb.</i>	Lectr
Lojane, A. K., BA <i>Melb.</i>	Lectr.
Poujol, B., LL.B. DipEd <i>ÉtSup Paris</i>	Lectr
Munn, Renate, DrPhil <i>Munich</i>	Lectr.
.....	Lectr
.....	Lectr

**Music**

Ritchie, J. A., MusB N Z.	Prof
Tooroy, M. F., DMus <i>Lond</i>	Sr Lectr
Hawley, W. R., MusB N Z	Lectr.
Till, M. A., MA DipMus N Z, FTCL	† Lectr
Univ Quartet	

**Philosophy**

Shorter, J. M., MA <i>Oxon</i>	Prof.
Zedens, R., MA PhD <i>Melb.</i>	Lectr.
Thornston, J. C., MA N Z	Lectr.
Montgomery, H. A., MSc N Z	Asst Lectr



**Physics**

McLellan, A. G., PhD <i>Edin</i> , MSc <i>N.Z.</i> , FRSNZ	Prof
Ellyett, C. D., PhD <i>Manc</i> , MSc <i>N.Z.</i> , FRSNZ	Reader
Roth, K. W., BA <i>N.Z.</i>	Sr Lectr.
Gregory, J. B., MSc PhD <i>N.Z.</i>	Sr Lectr.
Seed, T. J., MSc <i>N.Z.</i>	Sr Lectr.
Bloor, D., BSc PhD <i>Lond</i>	Lectr.
Keay, C. S. L., MSc <i>N.Z.</i>	Lectr.
Ross, A. W., MA PhD <i>St And</i>	Lectr.
Fraser, G. J., MSc <i>Canb</i> & <i>N.Z.</i>	Lectr.
Neff, S. H., BA <i>Powson</i>	Lectr.
Goode, D. H., MSc <i>N.Z.</i>	Asst. Lectr.

**Political Science**

Pacock, J. G. A., PhD <i>Canb</i> , MA <i>N.Z.</i>	Prof
Fatid, K. Z., BA <i>McG</i> , MA <i>Ter</i>	Lectr.

**Psychology**

Crowther, A., MA PhD <i>Canb</i>	Prof
Thompson, R. H. T., MA <i>N.Z.</i>	Sr Lectr.
Shoulsmith, G. A., MA <i>Edin</i>	Lectr.
Rodda, M., BSc <i>Duch</i>	Lectr.
Mol, J. J., MA PhD <i>Cal</i>	Lectr.
Arthur, A. Z., BA BSc <i>Lond</i>	Lectr.
.....	Lectr.
Follad, J. S., MA <i>N.Z.</i>	Asst Lectr.

**Zoology**

Knox, G. A., BA MSc <i>N.Z.</i>	Prof.
Pilgram, R. L. C., PhD <i>Lond</i> , MSc <i>N.Z.</i> (on leave)	Se Lectr.
Stonehouse, B., BSc <i>Lond</i> , MA DPhil <i>Oxon</i>	Se Lectr.
Nusse, Frances R., MSc <i>N.Z.</i>	Lectr.
Stout, Vida M., PhD <i>Lond</i> , MSc <i>N.Z.</i>	Lectr.
Morgans, J. F. C., MA <i>Canb</i> , PhD <i>Cape T</i>	Lectr.
Bigelow, R. S., BSc PhD <i>McG</i>	Lectr.
.....	Lectr.
Johns, P. M., MSc <i>N.Z.</i>	Asst. Lectr.
Baaze, Vivienne, MSc <i>N.Z.</i>	Asst. Lectr.
Godley, E. J., PhD <i>Canb</i>	Hon Lectr.

**ENGINEERING****Chemical Engineering**

Stimson, S. R., BSc MScApp <i>Q'ld</i> , FNZIC	Prof.
Hagyard, T., BSc PhD <i>Lond</i>	Sr Lectr.
Smith, S. C. J., BE BSc <i>Syd</i> , BD <i>Melb</i>	Lectr.
Keay, R. B., BSc PhD <i>Bern</i>	Lectr.
.....	Lectr.
Pect, N. J., BSc <i>Edin</i>	Asst Lectr.

**Civil Engineering**

Hopkins, H. J., DFC, MA <i>Oxon</i> , BSc BE <i>W Aust</i> , MICE	Prof.
--	-------

Alley, P. J., BE <i>N.Z.</i> , MNZIE	Sr Lectr
Henderson, F. M., MSc BE <i>N.Z.</i>	Sr Lectr
Sampson, A. H., PE <i>T II Delft</i> , BE <i>N.Z.</i>	Sr Lectr

William, A., BSc(Eng) <i>Lond</i> , MScTech <i>Manc</i>	Sr Lectr.
Law, F. P. S., BSc(Eng) <i>Shanghai</i>	Sr Lectr.
Servener, J. C., BSc ME <i>N.Z.</i>	Sr Lectr.
Giddens, E. P., BE <i>N.Z.</i> (on leave)	Lectr.
Shepherd, R., BSc(Eng) <i>Leeds</i>	Lectr.
Yao, K. M., MSc(Eng) <i>N Carolina</i>	Lectr.
Paulay, T., BE <i>N.Z.</i>	Lectr.
Dodd, T. A. H., BE <i>N.Z.</i>	Lectr.
Powell, G. H., BE <i>N.Z.</i>	Lectr.
Glanville, J. I., BSc <i>Brat</i>	Lectr.
Smith, N. A. F., MSc <i>Belf</i>	Lectr.
Cullen, R. M., BE <i>N.Z.</i>	Asst Lectr.
Penwick, R. D., BE <i>N.Z.</i>	Asst Lectr.
Hill, I. K., BE <i>N.Z.</i>	Asst Lectr.

**Electrical Engineering**

MacElwee, N. M., BSc <i>Glas</i> , MIEE	Prof
Neshe, R. D., BE <i>N.Z.</i> , MIEE	Sr Lectr.
Bowen, W. H., BSc(Eng) <i>Lond</i> , MIEE	Sr Lectr.
Withers, B. T.	Sr Lectr.
Woodward, J. L., MAsc <i>Ter</i> , BE <i>N.Z.</i>	Sr Lectr.
.....	Sr Lectr.
Stephen, K., BSc(Eng) <i>Manc</i>	Sr Lectr.
Baeth, A. H., ME <i>N.Z.</i> (on leave)	Lectr.
Currie, C. V., ME <i>N.Z.</i>	Lectr.
.....	Asst Lectr.

**Mechanical Engineering**

Rustick, R. J., BE <i>N.Z.</i> , MIMechE	Prof
Adams, H. F. T., MA <i>Canb</i> (on leave)	Assoc Prof.
Hewitt, N. E., BE <i>N.Z.</i>	Sr Lectr.
Burton, A., BSc(Eng) <i>Manc</i>	Sr Lectr.
Rodger, M., BE <i>N.Z.</i>	Sr Lectr.
Stevenson, D. C., BSc BE <i>N.Z.</i>	Sr Lectr.
Whittle, G., BSc(Eng) <i>Lond</i>	Sr Lectr.
Newstead, W. F.	Lectr.
Fahy, F. W.	Lectr.
Satterthwaite, C. A., BSc(Eng) <i>Lond</i>	Lectr.
Bewley, N. J., BE <i>N.Z.</i>	Lectr.
.....	Lectr.

**ADULT EDUCATION**

Rutherford, D. W., MA <i>N.Z.</i>	Dir
Clark, I. G., BA <i>N.Z.</i>	Tutor
Markwell, D. S., MA <i>N.Z.</i>	Tutor
Williams, B. M., MusB <i>N.Z.</i>	Tutor
.....	Tutor
.....	Tutor

**Specialist Tutors**

Worthington, G. A., BA <i>N.Z.</i>	(Drama)
Robins, Miss Ray T., BHSc <i>N.Z.</i>	(Home Sci)
Borrie, Ann F., DipEd <i>N.Z.</i>	(Home Sci)
Pesch, L. G., MusB <i>N.Z.</i>	(Music)
Weir, Wendy J., DipFA <i>N.Z.</i>	(Arts & Crafts)

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Finance): A. H. H. Martin, JP, BCom LLB N.Z. Asst. Registrar (Academic): Mrs. Heather B. Hewitt, BA N.Z. Asst. Registrar (Bldgs.): W. D. H. Smith, BA BCom N.Z. Liaison Officer with Schs.: E. R. Hounsell, MSc N.Z. Phys. Educn Officers: A. S. Lewis, BA

N.Z., Kathleen W. Guy; G. M. Leek.

STUDENT RESIDENCES: Wardens: Helen Connan Hall (women), Jane M. Soons, BA *Shelf*, PhD *Glas.*; Rolleston House (men), G. A. Shoulsmith, MA Edn., Warwick House (men), I. J. Csanach, PhD Lond., MA N.Z.

## GENERAL INFORMATION

Created by provincial ordinance, 1873; affiliated to Univ. of N.Z., 1874. First permanent bldg. opened June 1877. Legislation enacted in 1961 resulted in new constitution and in the Univ. of Canterbury becoming full degree-conferring univ.

Chief special sch., engin., establd 1890, sch. of art, opened 1888, became a fac. of the univ. 1950, sch. of agric., opened at Lincoln 1880, was administered by the univ. until 1897, when it became a sep. instn. as Canterbury Agric. Coll. In 1962 Canterbury Agric. Coll. became a constituent coll. of the Univ. of Canterbury, to be called Lincoln Coll.

The univ. is situated in Christchurch (pop. 220,500), the largest city in the S. island of N.Z.

CONSTITUTION: The univ. is governed by a council which consists of the vice-chancellor and up to 19 members apptd. or elected: 3 by the govt.-general; up to 3 by the council; 1 by Lincoln Coll. council, 6 by court of convocation, 1 by governing bodies of Canterbury sec. schs.; 3 profs., 1 lectur. rep., and the mayor of Christchurch. A professorial council, set up 1877 and reconstituted as the professorial bd. 1896, includes the vice-chancellor as chairman, all profs. and such lectrs. as are apptd. by the council.

INCOME (1961): Total income, £699,805 (govt. grants, 86 per cent.; fees, 8 per cent., endowments, 3 per cent., misc., 3 per cent.).

FACILITIES AND BLDGS. (1963): *Arts*, Prof. H. E. Field (educn.), *comm.*, Prof. A. S. Carrington (accty.); *engin.*, Prof. R. J. Rastriek (mech. engin.); *law*, Prof. H. R. Gray; *some of fine arts*, Prof. H. J. Simpson (fine arts); *sci.*, Prof. G. A. Knox (zool).

UNIVERSITY PRECINCT. In 1949 the council decided to proceed with the transfer of the univ. to a new site of 137 acres, about 3 mls. from the centre of the city. The siting plan adopted includes bldgs. for facs. of arts, engin., fine arts and sec. and admin. The 1st major bldg., that of sch. of engin., is now occupied and the sch. of art is establd. on the new site. Rection of bldgs. to accomm. bot., chem., geog., geol., maths., philos., phys., psychol. and zool. depts. has commenced (bldgs. will be occupied in 1965).

LIBRARY. Approx. 150,000 vols. The libr. of the Royal Soc. of N.Z., Canterbury branch, as at

present merged with the univ. libr. Macmillan Brown collection, approx. 15,000 vols., specializing in the Pacific ocean, anthropol. and ethiol. Depd. libr.: engin., chem. and several minor collections. About 1500 periodicals.

LABORATORIES: Bot., chem., educn., engin., geol., phys., psychol., zool.

FACILITIES OF SPECIAL INSTITUTIONS: Univ. of Canterbury industrial development dept.—to handle indust. res.

ENTRANCE REQUIREMENTS. As proscribed by the Univ. Grants Cttee. The principal exam. qualifying for matric. is the entrance exam. held in Dec., when the candidate is required to pass in Engl. and in 3 or 4 other subj.s selected from appropriate groups of subj.s. Sp. provision is made for admission to certain courses of students who have reached 21 yrs. and who give evidence of some reasonable educnl. background though they have not passed the entrance exam.

Students from overseas admitted *ad student* at entrance standard at discretion of U.G.C. Courses completed, or partly completed, at any British or other approved univ. or instn. may be accepted *ad student status* at discretion of univ. council.

NON-MEMBERS OF THE UNIVERSITY may attend classes if over 16 yrs. of age.

FIRST DEGREES: BA, BSc pass, 3 yrs. (4th yr. for BSc hon.), BCom, MusB pass, hon., BE (civil, electr., mech., chem.) pass, hon., 4 yrs., LLB, 5 yrs.

BSc pass: 8 units incl. 3 units higher than stage I, 1 at least a stage III unit. BSc hon.: 1 yr. sci. qualifying, then study in subj. of hon. sch. and in 2 or 3 subd. subj.s, 1 a foreign lang. (reading). Subj.s. of hon. sch.: biochem., bot., chem., geog., geol., maths., microbiol., phys. physiol., psychol., zool.

HIGHER DEGREES: MA, MCom, LL.M., 1 yr. from bachelor's degree; MSc, ME (chem.), (electr.), 1 or 2 yrs. from BSc, BE, or 1 yr. from BSc hon., BE hon., PhD, 2 yrs. from master's degree with hon., BSc hon., BE hon., MusB hon. A course of advanced instructn. is provided. The PhD is open to grads. of other univs. who are admitted to status of grad. of univ. with necessary prelim. qualifs. LittD, DSc, 5 yrs. from qualifying

degree and approved publ. work LL.D, 10 yrs. from qualifying degree and approved publ. work

**EXTERNAL DEGREES.** Exemption from attendance at lectures granted only in certain subs. of BA, LLB, BCom, MusB, LL.M, MCom to those residing in Canterbury, West Coast and parts of adjoining provinces

**DIPLOMAS** DipEd, 1 yr. postgrad. or 2 yrs. undergrad., DipMus, 3 yrs DipFA, 4 yrs.; DipFA with hon., 1 yr. from DipFA

**RESEARCH.** Normal res. facilities available in sci. labs. and opportunity for sp. interests in field subs. and meteorol.

**STUDY LEAVE.** Refreshment leave is granted on salary, and normally a sp. travel grant is provided

**INCLUSIVE ANNUAL CLASS FEES** Arts, about £60, comm., about £50, engin., about £95, fine arts, about £60; law, about £65, sci., about £90

**ACADEMIC YEAR.** March to Nov: 3 terms of 10, 11 and 6 weeks.

**ADULT EDUCATION** Town and country groups in north, mid and south Canterbury, Buller, and Westland in soc. and internet studies, fine and practical arts, etc.

**'OPEN' POSTGRADUATE AWARDS.** Lord Rutherford memorial res. fellowship, open to grade. of

any Commonwealth univ. who have resided in NZ for not less than 3 yrs.; offered every 2 and yr., value approx. £500

**STUDENT RESIDENCES.** Controlled by univ. (for wardens, see 'Admin. & Other Staff', above) Rolleston House, Worcester St., Christchurch, C 1 (tel. 79-691) (80 men), Warwick House, Armagh St., Christchurch, C 1 (tel. 79-721) (45 men); Helen Connon Hall, Chester St., Christchurch, C 1 (tel. 79-651) (66 women). Controlled by reps of churches but open to members of all religious denominations. Christchurch College, Rolleston Ave., Christchurch, C 1 (tel. 64-080) (74 men), Bishop Julius Hostel, 10 Cassin St., Christchurch, C 1 (tel. 70-997) (50 women); Rochester Hall, Bealey Ave., Christchurch (tel. 65-210) (34 men); Rosary House, 128 Park Tce (tel. 70-444) (34 women). Fees per week from about £5

**STUDENT HEALTH SERVICE.** Med. der. in attendance; voluntary enrolment by students.

**STUDENTS' UNION.** Students' union bldg., centre of student activities and a 'club-house' available to all students.

**PUBLICATIONS.** *Calendar* (Dec), 5s. Prospectuses of schs. of engin. and art (Feb.), free. Student journal - *Costa*, 13 issues p.a., sub. 5s.; *Gazette*, publ. periodically.

## THE YEAR 1961

**NEW CHAIR.** Fine arts

**RETIREMENTS.** Prof T. V. Griffiths (music).

**RESIGNATIONS.** Dr. W. A. Ruderman (phys.), to Natl. Magnet Lab., M.I.T.; Dr. H. S. Edgell (geol.); Dr. R. E. Valett (psychol.), appd. chief psychologist, Garden Grove elem. schs., California

**DEATHS.** Prof C. Weststrate (econ)

### Statistics

#### STUDENT NUMBERS, 1962

	Full-Time	Part-Time	External
Men	1690	1075	88
Women	452	345	23
Total	2142	1420	111

Distribution by Faculties: Arts, 1261; *engin.*, 542; *engin.*, 716; *law*, 211; *music & fine arts*, 153; *sci.*, 790. Total: 3673.

Included in the figures above are —

Postgraduate students, 253.

New admissions, 913

Students from other countries, 93. (Countries from which largest numbers came: Fed. of Malaya, 33, Vietnam, 15; Fiji, 13).

**DEGREES AWARDED (by Univ. of N.Z.) (1961).** Arts BA, 181; MA, 73. Comm. BCom, 12, MCom, 2. Engin.: BE, 96; BE hon., 32; ME, 7. Law LLB, 16, LL.M, 2. Mus: MusB, 2; MusB hon., 2. Sci.: BSc, 67; BSc hon., 5; MSc, 36. PhD (all facs). i. Total number of first degrees awarded, 413

**DIPLOMAS AWARDED (by Univ. of N.Z.) (1961).** DipBank, 1; DipEd, 6; DipFA hon., 3; Dip FA, 15; DipMus, 1.

## LINCOLN COLLEGE\*

Founded 1878

Postal Address: Lincoln College, Canterbury, New Zealand

Telephone: Christchurch 62-839

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF BOARD OF GOVERNORS—T. D. J. HOLDEN

PRINCIPAL—M. M. BUENS, CBE, MSc PhD *Aberd.*, FNZIC

VICE-PRINCIPAL—J. E. COOP, DPhil Oxon., MSc NZ, FNZIC

REGISTERAR AND TREASURER—H. G. HUNT, BCom NZ, FCIS

LIBRARIAN—J. A. FRAMPTON, BA *Brist.*

## TEACHING AND RESEARCH STAFF

[† = Part-Time]

Agricultural Economics				
Philpott, B. P., MCom MA <i>Leeds</i>	Prof	Hart, D. S., MA <i>Cambr.</i> , PhD NZ	Sr. Lectr	
Ward, J. T., B Litt Oxon., BSc (Econ)		Holland, M. G., MAgSc NZ	Sr. Lectr	
DipAg (Econ) PhD <i>Leeds</i>		Wright, D. E., MSc PhD NZ		
Court, R. H., BA (Econ) BSc NZ	Sr. Lectr		(Biochem.) Sr. Lectr	
Matheson, Mary J.	Res. Officer	Wicken, A. J., BSc PhD BA NZ		
	Res. Asst.		(Biochem.) Lectr	
		Kingsbury, L. R., BAgSc NZ	Asst. Lectr.	
		Clark, V. R.	Tech. Officer	
Agricultural Engineering		Farm Management and Rural Valuation		
Ruddolls, A. W., BE BSc NZ				
	Reader, Hd. of Dept	Flay, A. H., DipAg C.A.C., BSc		
Lindsay, G. G., BSc (Agr) <i>Adg.</i>	Lectr.	MAgSc NZ	Assoc. Prof.	
Baird, W. C.	Sr. Instr.	Garrett, H. E., B Litt Oxon., BA		
King, D. L.	Sr. Instr.	MAgSc NZ	Reader	
Technician		Cooke, M. B., CertAgr DipAg C.A.C.	Sr. Lectr	
Agricultural Law		Stewart, J. D., DipVFM C.A.C., MA		
Wills, E. P., BA LL.M. MCom NZ	† Lectr.	PhD <i>Adg.</i>	Lectr.	
Agricultural Microbiology		Ryde, B. J. P., DipVFM C.A.C.	Lectr.	
Blair, I. D., PhD <i>Leeds</i> , MAgSc NZ		Oldfield, J. H., DipVFM DipAg C.A.C.	Offices 1/6 F.A.S.	
	Reader, Hd. of Dept	Ower, D. K., DipAg M.A.C., DipVFM C.A.C.	Field Officer	
Mulcock, A. P., MSc PhD NZ	Sr. Lectr	Guise, J. W. B., DipAg DipVFM C.A.C.	Field Officer	
Hosn, Mrs. P., BSc NZ	Res. Officer			
	Res. Officer			
Wright, G. M., MSc NZ	† Lectr			
Agricultural Zoology		Horticulture		
Harrison, R. A., DSc NZ	Sr. Lectr	Challenger, S., BSc (Hort) <i>Adg.</i>	Lectr. 1/6	
Williams, G. R., BSc <i>Syd.</i>	Lectr	Thiele, G. F., BAgSc (Hort) NZ	Lectr	
Pottinger, R. P., BSc MAgSc NZ		Craddock, S. A., DipHort C.A.C.	Instn.	
	(on leave) Asst. Lectr.	Technician		
Johns, Mrs. M., BSc NZ		Plant Science		
Animal Husbandry		Langer, R. H. M., BSc (Agric) BSc		
Coop, I. E., DPhil Oxon., MSc NZ, FNZIC	Prof	PhD <i>Durh.</i>	(Plant Sci.) Prof.	
		Iverson, C. E., DipAg C.A.C.,		
		MAgSc NZ	Reader	
		Mottison, T. M., MSc PhD NZ	Sr. Lectr.	

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White, J. G. H., MAgSc N.Z. (on leave) Lectr  
Asst. Lectr

Horn, A. H., MSc N.Z.  
Officer i/c Chem. Services

#### Rural Education

McArthur, A. T. G., BSc Lond.,  
MAgSc N.Z. Sr Lectr  
McSweeney, D. B., MA DipAg C.A.C. Lectr.  
Blackmore, R. C. Visual Aids Officer

#### Soil Science

Walker, T. W., DIC, ARCS, PhD  
DSc Lond., FNZIC Prof  
Adams, A. F. R., MSc N.Z. Sr Lectr  
Elphick, B. L., BSc Lond. Sr Lectr  
(Phys.) Lectr  
Campbell, A. S., MSc N.Z. (Chem.) Lectr  
Douglass, B., MA Oxon, BSc N.Z.  
(S. Conservation) Lectr

#### Veterinary Science

McLean, J. W., BVSc Syd., PhD Calif.,  
MAgSc N.Z. Assoc. Prof.  
Thomson, G. G., BSc(VetSc) Edm. Sr. Lectr  
Hopkirk, C. S. M., DVSc Melb. Res. Officer

#### Wool

Henderson, A. E., PhD Lond., BAgSc N.Z. Prof  
Simpson, J. C. Instr  
Tinnock, B. M. Instr  
Fraser, I. E. B., BSc PhD Leeds  
(on secondment from Wool Res  
Oign) Res. Officer

### ADMINISTRATIVE AND OTHER STAFF

Accountant: E. R. Noonan Master of Halls: B. Douglass, MA Oxon., BSc N.Z.  
Halls Manager & Custodian: E. H. Beedle, DipSocSc Lond.

### GENERAL INFORMATION

In 1872 the provincial council of Canterbury set aside certain lands for the endowment of higher educn., incl. provision for a sch. of agric. Land suitable for the activities of such a sch. was bought at Lincoln in 1877 by the Canterbury Coll. bd., which was administering the endowments, and Lincoln Agric. Coll. was opened in 1880. By the Canterbury Agric. Coll. Act, 1896, control of Lincoln Agric. Coll. was removed from the Canterbury Coll. bd. and vested in a separate bd. of governors, the coll. thenceforth being known as Canterbury Agric. Coll. In 1913 a univ. degree in agric. was instituted and the coll. was recog. as a sch. of agric. by the Univ. of New Zealand. A series of amending acts was passed between 1922 and 1927, and by legislation passed in the latter yr. the coll. became a coll. of the Univ. of New Zealand. On devolution of the latter, the coll.—renamed Lincoln Coll.—became in 1962 a constituent coll. of the Univ. of Canterbury. The coll. is situated nr. the township of Lincoln, about 13 mls. south-west of Christchurch, South Island.

**CONSTITUTION.** The Lincoln Coll. Act 1961 constitutes the present authority of the coll. It is governed by a council consisting of the principal and 16 members elected as follows: 1 by govt. gen. of N.Z., 2 by S. Island members of the house of representatives, 2 by council of Univ. of Canterbury, 2 by Lincoln Coll. council, 4 by fed. farmers of N.Z., 3 by grads., 1 by prof. board and 1 by staff.

**INCOME (1961).** £311,306 (grant, 46 per cent.; fees and donations, 3 per cent.; endowments, 1 per cent.; trading, 50 per cent.).

**LIBRARY.** 15,000 vols. Subscribes to 500 journals.

**LABORATORIES, ETC.** Normal range of bldgs. to provide teaching & res. facilities in agric. econ., agric. engin., farm management & valn., hort., plant & animal sci., soil, vet. sci. and wool res.

The COLLEGE FARMS comprise approx. 2250 acres, 1412 acres being situated at the coll. and 838 acres 8 mls. distant at Ashley Dane farm. Special facilities are available for sheep and plant res. on a field scale. Full facilities are available for teaching hort.

The CROP RESEARCH AND BOTANY DIVISIONS (D.S.I.R.), which are the main centres in N.Z. for plant breeding and bot. study, are sited contiguous to the coll. Both these instns., together with other sub-stns. of D.S.I.R. associated with them, co-operate with the coll. in the provision of material for teaching and res.

The WOOL RESEARCH ORGANIZATION, established on a site beside the coll., collaborates with the coll. on a natl. res. programme.

The TUSOCK GRASSLANDS AND MOUNTAIN LANDS INST., established at the coll. under a separate cttee. of management, is responsible for the investigation of various aspects of management of the tussock grasslands of New Zealand and the

development of techniques to bring about the more protective and stabilizing cover of vegetation and soil conservation. It also facilitates co-ordination of res. and the dissemination of information.

**RESEARCH.** Investigations are proceeding in soil sci., the various major fields of plant sci. and animal sci., agric. econ., farm management & val., and agric. engin. Facilities are available for postgrad. study and res. in these fields. In 1962 a spec. res. unit in agric. econ. sponsored by the D.S.I.R. was established.

**ADMISSION.** Overseas students desiring to be admitted *ad eundem status* to any of the degree courses at the coll. should supply full details of the undergrad. or grad. course already taken. Subsequently, formal appln. must be made to the registrar of the Univ. of Canterbury. Non-members of the univ. may be admitted to the dipl. courses, details of prerequisite qualifs. being obtainable from the coll. registrar.

**FIRST DEGREE** (of Univ. of Canterbury) BAgr, BAgr(Hort)—3 yrs; BAgrSc, BAgrSc(Hort)—4 yrs.

**HIGHER DEGREE** (of Univ. of Canterbury). MAgrSc, MAgrSc(Hort)—normally 1 yr. following the BAgrSc course, PhD—a 2-yr. full-time course open to candidates who have been admitted to a master's degree of Univ. of N.Z. (either by exam. or by admission *ad eundem status*) at the standard of 1st or 2nd class honrs.

**DIPLOMA** Awarded by coll. Valuation & farm management, agric. engin.—advanced courses of 1 yr. which must be taken after appropriate

prerequisite courses, agric, hort—2-yr. courses together with addnl. practical experience. Wool-classing—1 session.

**CERTIFICATE.** Awarded by Univ. of Canterbury. Any matriculated person may take a course in any one or more subjects of the degree courses for Univ. of Canterbury cert. of proficiency in that subject or subjects. Awarded by coll. Wool-classing.

**OTHER COURSES.** Intensive general course in agric.—1 yr. after 3 yrs' practical experience; sp. courses for 2nd-yr. fig. coll. students in agric. and for soil conservators, various short courses in agric. and hort. subjects.

**FEES.** Tuition fees: PhD, £63; master's degrees, £37.10s.; bachelor's degrees, dipl. courses and intensive course in agric., £67.10s.; wool-classing course, £36; short courses, £3 per wk.

**ACADEMIC YEAR.** March to Nov. 3 terms of 9, 10 and 12 wks.

**STUDENT RESIDENCE.** Accomms. for approx. 300 men and women students in 3 residential halls. Fees £4.18s. 6d. per wk.

**STUDENTS' ASSOCIATION.** The assoc. caters for the athletic and social side of the student's life. Normal facilities available for sport.

**PUBLICATIONS.** *Calendar* (3s.); *Annual Review* (7s. 6d.); *Chamber of Commerce Bulletin* (10s. 3d.); *Lincoln Coll. Farmers' Conference Proceedings* (7s. 6d.); *Life and Work at Canterbury Agric. Coll.* (the first 75 yrs. of the agric. coll. at Lincoln), compiled by I. D. Blair (Caxton Press, Christchurch, 1956).

## THE YEAR 1961

**NEW CHAIR.** Wool sci.

**RETIREDMENTS.** J. D. Mackay (warden).

**RESIDUALS.** J. H. Gausebrook (hort.), appd. sc. lect., extra-curricul. hort. educn., Worcester-shire, A. R. Edmunds (soils), awarded wool bd fellowship.

### Statistics

**STUDENT NUMBERS, 1962**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	348	499
Women	12	31
Total	360	530

**Distribution by Faculties.** Agric, 601; hort., 89. Total: 690.

Included in the figures above are:—

Postgraduate students, 31

New admissions, 160

Students from other countries, 54 (Countries from which largest numbers come: Australia, 19; Fed. of Malaya, 12).

**DEGREES AWARDED** (by Univ. of N.Z.) (1961). BAgr(Hort), 1; BAgrSc, 14; MAgrSc, 3; PhD, 1. Total number of first degrees awarded, 19.

**DIPLOMAS AWARDED** (1961) DipVFM, 32; DipAgrEng, 1; DipAgr, 32; DipHort, 5.

**CERTIFICATES AWARDED** (1961) Wool-classing, 10.

# UNIVERSITY OF OTAGO\*

Founded 1869

Postal Address: P.O. Box 56, Dunedin, New Zealand

Cables and Telegrams: University, Dunedin

Telephones: Dunedin 79-561

VISITOR—H. E. THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—REV. H. J. RYMER, CMG, BD U.T.S (N.Y.), MA Oxon. & N.Z., Hon. LLD

VICE-CHANCELLOR—F. G. SOPER, CBE, PhD DSc Wales, FRIC, FRSNZ, FNZIC

PRO-CHANCELLOR—T. K. SIDRY, LL.M. N.Z.

HON. TREASURER—C. V. SMITH, CBE

REGISTERAR—J. W. HAYWARD, BCom N.Z.

LIBRARIAN—W. J. McELDOWNEY, MA N.Z.

## TEACHING STAFF

[†=Part-Time]

<b>Anthropology</b>		Kennedy, A. M., PhD Camb, BSc RE N.Z.	
Gathercole, P. W., BA Camb.	Sr. Lectr.	Malcolm, G. N., PhD Maw., MSc N.Z.	Sr. Lectr.
<b>Biochemistry</b>		Pankhurst, M. H., DPhil Oxon., MSc PhD N.Z.	Sr. Lectr.
Edson, N. L., PhD Camb., BMedSc MB ChB N.Z., FRSNZ, FNZIC	Prof.	Williamson, A. G., PhD R'dg., MSc N.Z.	Lectr.
Batt, R. D., MA DPhil Oxon., MSc PhD N.Z., FRIC	Assoc. Prof.	<b>Classics</b>	
Hunter, G. J. E., MSc N.Z., FRIC	Sr. Lectr.	Manton, G. R., MA Camb.	Prof.
Cousins, F. B., MSc PhD N.Z.	Sr. Lectr.	Hamilton, J. R., MA Edin. & Camb.	Sr. Lectr.
Shaw, D. R. D., DPhil Oxon., MSc PhD N.Z.	Sr. Lectr.	Thornton, Mrs. Agathe H. F., BA Camb. & Land, PhD Edin.	Sr. Lectr.
Exton, J. H., BMedSc MB ChB N.Z.	Asst. Lectr.	Green, J. R., BA Lond.	Lectr.
Midwinter, G. G., MSc	Asst. Lectr.	Long, A. A., BA Lond.	Lectr.
Sooyd, J. G. T., BMedSc MB ChB	Asst. Lectr.	Larke, D. A., MA	Asst. Lectr.
<b>Botany</b>		<b>Commerce</b>	
Baylis, G. T. S., DIC, PhD Lond., MSc N.Z., FRSNZ	Prof.	Cowan, T. K., MCom N.Z.	(Accty.) Prof.
Slade, Brenda F., PhD Camb., MSc N.Z.		Dugli, A., DBA Otago	Sr. Lectr.
Holdsworth, M., DIC, BSc PhD Lond.	Sr. Lectr.	Ficeman, J. M., BCom	Sr. Lectr.
Wylie, Ann P., MSc N.Z.	Sr. Lectr.	Valentine, J. A., BCom N.Z., FPANZ	†Lectr.
Mink, A. F., PhD Duke, MSc N.Z.	Lectr.	Simpson, R. S. M., BA MCom DipSocSc N.Z.	†Lectr.
Scott, G. A. M., BSc Glas., PhD Wales	Asst. Lectr.	Tilly, H. S. J., FPANZ	†Lectr.
<b>Chemistry</b>		Gilkinson, W. S., BCom N.Z., FPANZ	†Lectr.
Parton, H. N., PhD Lond., MSc N.Z., FNZIC	Prof.	Govan, J. E., LLB N.Z.	†Lectr.
Corbett, R. E., PhD Camb., MSc N.Z., FNZIC	Reader	Ross, H. J., BA LLB N.Z.	†Lectr.
Campbell, A. D., MSc PhD N.Z.	Sr. Lectr.	3 Tutors†	
		<b>Dentistry, see below</b>	
		<b>Economics</b>	
		Williams, J. W., PhD Lond., MCom N.Z.	Donald Reid Prof.

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Jones, S., BA *Wales*  
Hudson, M. A., BSc *Syd.*

Sr. Lectr.  
Asst. Lectr.

Gray, Eleanor M., MS *Iowa*, BHSc  
DipEd N.Z.  
Explan, T. (Foods) Sr. Lectr.  
Swindella, Yola E., MHSc N.Z. (Design) Sr. Lectr.

# Education

Mitchell, F. W., MA BSc *Adel.*, PhD *Lond.* Prof.  
Hill, C. G. N., PhD *Lond.*, MA  
DipEd N.Z.  
Adams, R. S., MA DipEd N.Z.  
Melvin, K. H., MA DipEd N.Z.,  
DipSecSc *Woll.*

Sr. Lectr.  
Sr. Lectr.  
Lectr.

Robinson, Mrs. Marion F., PhD *Cambr.*,  
MHSc N.Z. (Nutrition) †Sr. Lectr.  
Macfarlane, Catherine E., BHSc N.Z.  
(Institutional Management) Lectr.  
Shaw, Mrs. Helen M., MHSc N.Z. (Nutrition) †Lectr.

# English Language and Literature

Housman, E. A., MA *Oxon.* & N.Z. Prof.  
Dalziel, E. Margaret, DPhil *Oxon.*,  
MA *Oxon.* & N.Z. Reader  
Cameron, G. M., MA *Lond.* & N.Z. Sr. Lectr.  
Robertson, R. T., MA N.Z. Sr. Lectr.  
Maslen, K. I. D., BSc *Oxon.*, MA N.Z. Sr. Lectr.

Gibson, C. A., MA N.Z. Lectr.  
Harty, Lenora, MA *Oxon.* & N.Z. Lectr.  
Thomson, J. E. P., BA *Oxon.*, MA Asst. Lectr.  
Goodwin, R. E., MA Asst. Lectr.

Wait, Margaret J., MS *Oxon.*, BHSc N.Z. (Clothing) Lectr.  
Entwistle, Evelyn R., PhD *Str. And*  
Brown, J. E. (Textile Chem.) Lectr.  
McIntosh, Esmé M., DipHSc (Design) Lectr.  
(Institutional Management) Asst. Lectr.  
Cook, Jocelyn D., DipHSc

(Clothing) Asst. Lectr.  
Clamett, Miss Helen R., BHSc N.Z. (Nutrition) †Asst. Lectr.  
Holst, Mrs. Alison M., BHSc N.Z. (Foods) Asst. Lectr.

# French, see Mod. Langs.

# Geography

Lister, R. G., BA *Lond.* Sr. Lectr.-in-Charge  
Brookie, W. J., MA *Edin.* Sr. Lectr.  
Fingervall, R. P., MA *Wim.* & N.Z. Sr. Lectr.  
Maudsley, W. J., MSc N.Z. Lectr.  
Forrest, J., MA N.Z. Lectr.  
Schwenfurther, U., PhD *Bonn* Lectr.

# Geology

Coombs, D. S., PhD *Cambr.*, MSc N.Z.,  
FGS Prof.  
Campbell, J. D., MSc N.Z., FGS Sr. Lectr.  
Hodgson, W. A., DIC, BSc PhD *Lond.* Lectr.  
Means, W. D., AB *Harc.*, PhD *Calif.* Lectr.  
Wright, J. B., BSc *Oxon.* Lectr.

# German, see Mod. Langs.

# Hebrew

Geering, Rev. L. G., BD *Melb.*, Div. *Calif.*,  
MA N.Z. Lectr.

# History

Morrill, W. P., DPhil *Oxon.*, MA N.Z. Prof.  
Ross, A., MC & Bar, PhD *Cambr.*,  
MA N.Z. Reader  
Olsson, E. A., MA *Adel.* (Pol. Sci.) Sr. Lectr.  
Parsonson, G. S., BEM, MA N.Z. Sr. Lectr.  
Jackson, K. S., BA *Nott.* Sr. Lectr.  
Mitchell, A. V., MA *Manc.* Lectr.  
Page, Miss Dorothy F., MA N.Z. Asst. Lectr.  
Wood, G. A., MA Asst. Lectr.

# Home Science

Coleman, Patricia D., MS *Texas*, DipHSc Prof.  
Jackson, Phyllis R., MHSc DipEd N.Z. (Methods of Teaching) Sr. Lectr.

# Law

Guest, F. W., MA LL.M. N.Z. Prof.  
Holden, A. C., BA LL.B. *BCom* N.Z. Sr. Lectr.  
Allan, N. W., LL.B. N.Z. (Company L. & Partnership) †Lectr.  
Allon, P. B., MA LL.M. N.Z. (Roman L.) †Lectr.  
More, J. S. D., LL.B. N.Z. (Contracts) †Lectr.  
Muschell, M. M., LL.B. N.Z. (Procedure & Family L.) †Lectr.  
Nevill, P. H. W., LL.B. N.Z. (Equity, Succession) †Lectr.  
Read, W. H., LL.M. N.Z. (Land L.) †Lectr.  
Rosa, H. S., BA LL.B. N.Z. (Criminal L.) †Lectr.  
Johnston, T. N., LL.B. N.Z. (Comm. L.) †Lectr.

Pearce, D., LL.B. (Conveyancing) †Lectr.  
a Tutor

# Marine Biology

Batham, Elizabeth J., PhD *Cambr.*,  
MSc N.Z. Sr. Lectr.

# Mathematics, Pure and Applied

Sawyer, D. B., MA *Cambr.* Prof.  
Möller, M. R., DrEng *Berl.* (Stats.) Prof.  
Stoddart, A. W. J., MSc N.Z. Sr. Lectr.



Wong, W. J., PhD <i>Hawaii</i> , MSc <i>N.Z.</i>	Lectr.	Entwistle, R. F., BSc PhD <i>St. And.</i>	Lectr.
Fisher, G. M., BA <i>Miami</i> , PhD <i>Louisiana</i>	Lectr.	2 Asst. Lectrs.	

**Medicine, see below****Microbiology**

Miles, J. A. R., MA MD BChir <i>Canb.</i> , FRACP, FRSNZ	Prof.
Marples, Mrs. Mary J., MA <i>Oxon.</i> , MD <i>N.Z.</i>	Assoc. Prof.
Markham, N. P., DPhil <i>Oxon.</i> , BSc MB ChB <i>N.Z.</i>	Assoc. Prof.
McNamara, F. N., MA MD <i>Canb.</i>	Sr. Lectr.
Louist, J. S., BSc PhD <i>Adel.</i>	Sr. Lectr.
Fitzgerald, N. W., MSc MD ChB <i>N.Z.</i>	† Lectr.
Howarth, Sheila, BSc PhD <i>Leid.</i>	Lectr.

**Modern Languages**

Herd, E. W., MA <i>Canb.</i>	Prof.
Stone, R. G., DUParrs, MA <i>N.Z.</i>	
Trabing, H. G., (French) BA	Lectr.
Dawson, J. F., MA <i>N.Z.</i> (German)	Lectr.
Edwards, P. M. H., BA <i>Br Col.</i> , AM <i>Col.</i>	Lectr.
& Haro, PhD <i>Penn.</i> (Russian)	Lectr.
Aderseth, M., MA PhD <i>Leid.</i> (French)	Lectr.
Zissermann, N. V., PhD <i>Vienne</i> (Russian)	Lectr.
Beer, Mrs. Jeanette, BA <i>Oxon.</i> , MA	(French) Lectr.
Lelong, D. R. P.	Lecteur

**Music**

Piatt, P., MA BMus BLitt <i>Oxon.</i>	Blair Prof.
Harris, L. P., BA MusB <i>N.Z.</i>	Sr. Lectr.
Steele, H. J., PhD <i>Canb.</i> , MA	Sr. Lectr.
Byars, D. A., MusB <i>N.Z.</i>	Lectr.

**Philosophy and Psychology**

Taylor, D., DipEd <i>W. Aust.</i> , MA <i>W. Aust.</i>	Prof.
& <i>Oxon.</i> , Hon. MA <i>Melb.</i>	
Durrant, R. G., MA <i>N.Z.</i>	Sr. Lectr.
Thornton, Rev. H., MA <i>Edin.</i>	Sr. Lectr.
Fress, W. K., MA <i>Melb.</i>	Lectr.

**Physical Education**

Smithells, P. A., MA <i>Canb.</i>	Assoc. Prof., Dir. of Sch.
Cameron, P. E., MA <i>N.Z.</i>	Sr. Lectr.
Golding, L., Annette, DipPhysEd	Lectr.
Southgate, Winifred A.	Lectr.
4 Asst. Lectrs	

**Physics**

Nimmo, R. R., PhD <i>Canb.</i> , MSc <i>N.Z.</i> , FIP	Prof.
Dodd, J. N., PhD <i>Birm.</i> , MSc <i>N.Z.</i>	Reader
Stack-Forsyth, E. F., BSc PhD DipEd <i>Natal.</i>	Sr. Lectr.
Kelly, F. N., PhD <i>Tor.</i>	Sr. Lectr.
Kennedy, W. L., MSc <i>W. Aust.</i> , PhD <i>Purdue</i>	Sr. Lectr.
Dwyer, K. R., MS <i>M.I.T.</i> , MSc	Lectr.

**Physiology**

Robinson, J. R., MD BChir PhD <i>Canb.</i>	Prof.
Taylor, D. W., MD <i>Aberd.</i>	Sr. Lectr.
Bradley, K., MSc <i>Man.</i>	Sr. Lectr.
Somjen, G. G., MEd <i>Dre. Assat.</i> , MD	Sr. Lectr.
Batt, Mrs. Olga D., MB ChB <i>N.Z.</i>	† Lectr.
3 Asst. Lectrs.	

**Psychology**

...	Prof.
...	Lectr.

**Technology**

Williams, G. J., DIC, PhD <i>Leid.</i> , MSc BE <i>N.Z.</i> , MNZIE	Prof.
Machse, J. B., MSc BE <i>N.Z.</i> , FGS	
(Surveying) Assoc. Prof.	
Buchanan, D. E., BE <i>N.Z.</i> (Engin.)	Sr. Lectr.
Carter, J. J., BMetE <i>Melb.</i> (Metall.)	Sr. Lectr.
Scott, J. B., BSc PhD <i>Leid.</i> (Coal Res.)	Sr. Lectr.
Buckingham, M. H., BE <i>N.Z.</i> (Mineral Engin.)	Sr. Lectr.
Anderson, A. M., BSc <i>Durb.</i>	Sr. Lectr.
Standish, N., BSc <i>N.S.W.</i>	Lectr.

**Theology**

Henderson, Rev. J., MA PhD <i>Edin.</i>	† Lectr.
Allan, Rev. J. A., DD <i>Edin.</i> , MA <i>N.Z.</i>	
(New T.)	† Lectr.
Gearing, Rev. L. G., BD <i>Melb. Div. Coll.</i> , MA <i>N.Z.</i> (Old T.)	† Lectr.
Rex, Rev. H. H., DrTheol <i>Tübingen</i> , MA <i>N.Z.</i> (Church Hist.)	† Lectr.

**Zoology**

Marples, B. J., MA <i>Oxon.</i> , MSc <i>Man.</i> , FRSNZ	Prof.
Brewer, Beryl I., DSc <i>N.Z.</i>	Sr. Lectr.
Scott, D., BSc <i>Aberd.</i> , PhD <i>Man.</i>	Lectr.
Pernyman, Judith C., MSc <i>Lond.</i>	Lectr.
Beer, C. G., DPhil <i>Oxon.</i> , MSc	Lectr.

**DENTISTRY****Basic Dental Sciences**

Shroff, F. R., DDS <i>N.Z.</i>	Assoc. Prof.
Gavin, J. B., BDS <i>N.Z.</i>	Lectr.

**Conservative Dentistry**

Warren, J. Le B., MDSc <i>Melb.</i> , BDS <i>N.Z.</i> , FDSRCSEd	Prof.
Charnside, I. M., DDS <i>N.Z.</i>	Sr. Lectr.
Barr, A. M., BDS <i>N.Z.</i>	Sr. Lectr.

**Medicine**

Chapman, O. W., MB ChB <i>N.Z.</i> , MRCP, FRACP	† Lectr.
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**Oral Medicine and Oral Surgery**

Walsh, Sir John, KBE, MB BS DDS  
Medb., Hon. MDS N U I., FDSRCS,  
FDSRSED, FRSNZ Prof  
Macalister, A. D., DDS N Z Assoc. Prof  
Donaldson, K. I., BDS Syd., FDSRCS Sr Lectr

**Orthodontics**

Gresham, A. H., DDS N Z Sr Lectr.  
Keen, M. R., MDS N Z Lectr.  
Harding, J. F. A., BDS N Z Lectr.

**Periodontia**

Cunningham, W. M., MBE, DDS Tor.,  
BDS N Z Sr Lectr.  
Laws, A. J., MDS Lectr.

**Pharmacology and Therapeutics**

Kilpatrick, J. A., MD N Z., MRCP,  
FRACP †Lectr.

**Preventive, Public Health and  
Children's Dentistry**

Davies, G. N., DDS N Z Assoc. Prof  
King, R. M., MB Medb., BDS N Z. Lectr.

**Prosthetic Dentistry**

Craddock, F. W., MSD Northwestern, DDS  
BA DpEd N Z Prof  
Johnston, J. W., ED, DDS N Z Sr Lectr.  
Stockwell, R. F., BDS N Z Lectr.  
Bloss, H. D., BDS N Z Lectr.

**Surgery**

Fitzgerald, H. W., MB ChB N.Z.,  
FRCSed, FRACS †Lectr

**Dental Hospital Department**

Adams, D. B., MDS N Z., FDSRCS Sr. Dent. Surgeon  
2 Asst. Surgeons

**MEDICINE**

(For subjects (except Anst.) of first a yrs.—  
Biochem., etc., see above)

**Anaesthetics**

Richie, J. R., MB ChB N.Z., FFARCS †Sr Lectr  
Chisholm, D. I., MB ChB N.Z.,  
FFARCS †Lectr  
9 Asst. Lectrs †

**Anatomy**

Adams, W. E., PhD Lond., DSc BMedSc  
MB ChB N Z., FRSNZ Prof  
Trotter, W. D., DPhil Oxon., MB  
ChB N Z Assoc. Prof.  
Robinson, L. R., MD N Z. Sr. Lectr.

Adams-Smith, W. N., MB ChB N.Z. Lectr  
Carmen, J. B., DPhil Oxon., BMedSc MB  
ChB N.Z. Lectr.  
2 Asst. Lectrs., 3 Surgeon Demrs., 4 Grad  
Demrs.

**Biochemistry, see above**

**Diagnostic Radiology**

Begg, A. C., MD N Z., DDR †Sr Lectr  
Jameson, H. D., MSc N Z. (Radiological Phys.) †Lectr.  
3 Asst. Lectrs †

**Ear, Nose and Throat**

Wardale, A., MD MS Lond., FRCS,  
FRACS, MRCP †Sr Lectr.  
Horowitz, S., MD Vienna, FRACS,  
FRFPGlas †Sr Lectr  
3 Asst. Lectrs †

**Gynaecology and Obstetrics**

Wright, J. L., MB ChB N.Z., FRCS,  
FRCOG, FRACS Prof.  
Stewart, Marian, MB ChB N.Z., FRCOG,  
MRCPed (Obstet.) †Sr Lectr.  
Tolley, Mary A., MB ChB, FRCSed Lectr  
Fitzgerald, J. P. B., MB ChB  
BMedSc N Z., MRCPG †Lectr  
Fraser, R. D., MB ChB N.Z., MRCOG †Lectr  
Heron, H. J., MB ChB Res Asst.

**Medical Jurisprudence**

Prof.

**Medicine**

Smirk, Sir Horace, KBE, MD Manc.,  
FRCP, FRACP Res. Prof.  
..... Mary Glendinning Prof.  
Iconado, W., MD Alond (Psychol. M.) Prof.  
Foster, F. N., DPhil Oxon., DSc N Z.,  
FRIC (Pharmacol.) Assoc. Prof  
McQueen, E. G., MB BS Syd., PhD N Z.,  
MRCP, FRACP (Pharmacol.) Sr. Lectr.  
McGeorge, M., BA MD N Z., MRCP,  
FRACP (Fed.) †Sr Lectr  
Wilson, R. F., MB ChB N Z., MRCP,  
FRACP (TB) †Sr Lectr  
Chapman, O. W., MB ChB N Z., MRCP,  
FRACP †Sr Lectr.  
Lewis, L. S. A., BMedSc MD N Z.,  
MRCP, FRACP †Sr Lectr.  
Hunter, J. D., MD ChB N Z., MRCP †Sr Lectr.  
Medlicott, R. W., MB ChB N Z.,  
FRACP (Psychiatry) †Sr Lectr.  
Stranger, H. C. W., PhD DTM&H Edm.,  
MB ChB N Z., MRCPed †Sr Lectr.  
Macleod, E. K., MB ChB N.Z., MRCP †Lectr.  
Bourne, H., MB BS Lond. (Psychiatry) †Lectr.  
Kilpatrick, J. A., MD N Z., MRCP, †Lectr.  
FRACP

Begg, N. C., MB ChB N.Z., MRCP, FRCPed (Paed) †Lectr.  
 Moore, C. S., MB ChB DPM Lond (Psychiatry) †Lectr.  
 Lord, Josephine M., MD Lond, MRCP †Lectr.  
 O'Donnell, T. V., MD BMedSc N.Z., MRCP †Lectr.  
 Renshaw, P. K., MA MB BChir Camb., MRCP †Hon. Lectr.  
 Highton, T. C., MB ChB Liv., MRCP †Hon. Lectr.  
 Woodhouse, F. B. M., MB ChB N.Z., MRCP (Geriatrics) †Lectr.  
 6 Asst Lectrs.]

#### Ophthalmology

Pari, J. C., DOMS Lond., MB ChB N.Z., FRCS †Sr. Lectr.  
 MacDonald, R. G., DOMS Lond., MB ChB N.Z., FRCSed, FRACS †Lectr.  
 1 Asst. Lectr.

#### Pathology

Rodda, R. A., MD N.Z. Prof.  
 Howie, J. B., DPhil Oxon., MB ChB N.Z. Sr. Lectr.  
 Spitzer, R., MD Masst., PhD Cal Tech, Sr. Lectr.  
 Perry, D. J., MD N.Z. Visiting Sr. Lectr.  
 5 Temp Lectrs. †Lectr.

#### Preventive and Social Medicine

Dixon, C. W., DPH MD Lond Prof.  
 Hickling, S., MB BS Durk., DPH N.Z. Sr. Lectr.  
 Emery, G. M., MD DPH †Sr. Lectr.  
 Spears, G. F. S., BA MSc N.Z. (Stats) Lectr.  
 3 Asst Lectrs.†

#### Radio Therapy

Jerram, C. W. S., MB ChB N.Z. †Sr. Lectr.  
 Ramsay, F. W., MB ChB N.Z., FFR †Asst. Lectr.  
 Bell, R. B., MB ChB N.Z. †Asst. Lectr.

#### Stomatology

Walsh, Sir John, KBE, MB BS DDSc, MEd, Hon. MDS N.Z.U.I., FDSRCS, FDSRCSEd, FRSNZ Prof.

#### Surgery

Fraserkel, G. J., MA BM MCh Oxon., FRCS, FRACS Ralph Barnett Prof.  
 Heslop, Barbara E., MD Res. Officer

Zenka, Irmgard M., DrAgri Giessew Res. Asst.  
 Nisbet, N. W., LDS, FRCSed (Orthop. S.) †Assoc Prof.  
 James, J. A., MB BS Melb., FRACS (Neurosurg.) †Sr. Lectr.  
 Pearse, V. T., MC, MB ChB N.Z., FRCS, FRACS †Sr. Lectr.  
 Fitzgerald, H. W., MB ChB N.Z., FRCSed, FRACS (Orthop. S.) †Sr. Lectr.  
 Wilson, S. L., DSO, MB ChB N.Z., FRCS, FRACS †Sr. Lectr.  
 Borrie, J., MBE, MB ChM N.Z., FRCS, FRACS (Thoracic S.) †Sr. Lectr.  
 Robinson, R. G., GM, MB BS Lond., ChM N.Z., FRCS, FRACS (Neurosurg.) †Sr. Lectr.  
 Ludbrook, J., MB ChM BMedSc N.Z., FRCS, FRACS Sr. Lectr.  
 Dawson, E. O., MB ChB N.Z., FRCS, FRCSed, FRACS †Lectr.  
 Alldred, A. J., MB ChB N.Z., FRCS, FRACS (Orthop. S.) †Lectr.  
 Heslop, J. H., MB ChM N.Z., FRCS, FRACS †Lectr.  
 Lichten, L., MB BCh Lond, FRCS Lectr.  
 Shackleton, M. E., MB ChB, FRCS †Lectr.  
 8 Asst Lectrs †

#### Therapeutics

Sayers, E. G., CMG, MD N.Z., FRCP, FRACP, Hon FACP, Hon. FRCPed, FRSNZ Prof.

#### Branch Medical Faculties

Christchurch - Rolleston, G. L., MB ChB (Sub-Dean), with sr. staff members of Christchurch Hosp Wellington. Keeling, J. A., MB ChB, MRCP, FRACP (Sub-Dean), with sr. staff members of Wellington Hosp Auckland. Gilman, A. O. M., MB ChB, MRCP, FRACP (Sub-Dean), with sr. staff members of Auckland Hosp

#### ADULT EDUCATION

Hall, D. O. W., MA Camb Dir.  
 Entwistle, A. R., MA Oxon. Tutor  
 Kennedy, R. E. (Drama) Tutor  
 McKenna, E. D., MusB N.Z. (Music) Tutor  
 Skinner, A. N., BA Lond Tutor  
 Palmer, M., MA N.Z. Tutor  
 Blackmore, H. S., MA N.Z. Tutor

#### Home Science Extension Tutors

Carpenter, Emily E., BHSc N.Z.  
 Du Toit, Mrs Kathleen  
 Howe, Edna J., DipDomSc Lec.  
 King, Judith M., MSc Otago, BHSc N.Z.

### ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Finance). G. M. Broad,  
 BCom N.Z. Asst Registrar (Academic). Jean M.

Riley, MBE, MA N.Z. Accountant: H. L. Gregg, BCom N.Z. Sec. Med Fac: J. H.

Scott, BEM, BA BCom NZ Sec., Dent. Fac.: R. W. Foster, BCom NZ Dep. Librarian; E. Joy Robinson, MA NZ Med. Sch. Librarian; H. D. Kilmer, BA NZ. Sub-Librarians: Agnes L. Henderson, BA NZ; Mrs Gloria M. Struthers, BA NZ; J. F. Donnan, MA NZ; Mary R. W. Daniell, MA; H. M. Gilmore, BA; D. G. Jamieson, BA. Liaison Officer with Schools: E. H. L. Hawthead, BA BSc. Dir., Student Health Service: A. M. Douglas, MB ChB DPH. Accommodation Officer: E. W.

Low, BA NZ. Wardens of Student Hostels: Studholme House, Prof. Patricia D. Coleman, MS Teas, DipHSc; Selwyn College, Rev. Canon D. S. Miller, MA NZ, Knox College, Rev. H. J. Ryburn, CMG, BD UTS (NY), MA Oxon. & NZ, St. Margaret's College, Joan D. Shand; Carrington Hall, Rev. L. H. Jenkins, BE NZ; Arana Hall, Rev. W. C. Somerville, BSc PhD Edu; Doonan Hall, Mother Superior—Mother St. James; Aquinas Hall, Rector—Very Rev. Fr. Prior Fitzgerald.

## GENERAL INFORMATION

Founded by ordinance of the Otago provincial council in 1869, with power to grant degrees in arts, med., law and music, the univ. was opened in 1871. By an agreement effected in 1874, the univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of New Zealand, in which it ranked as one of the four constituent instns. The law fac. originated in 1873, the med. sch. in 1874, the sch. of mines in 1878, the dent. sch. in 1907, accountancy lectures and the sch. of home sci. in 1911, the theol. fac. in 1945 and the sch. of phys. educn. in 1948.

In 1961 the University of New Zealand was disestablished, and the power to confer degrees was restored to the University of Otago by the University of Otago Amendment Act 1961.

**CONSTITUTION** The govt. of the univ. is vested in the council, on which are represented the senate, teaching staff, students' assocn., grads. (convocation) and a number of educational and other bodies; the governor-general-in-council nominates 3 members. The council is advised on academic matters by the senate.

**INCOME** (1961). Total. £1,109,204. Gen. univ. funds, £847,301 (govt. grants, 86 per cent; student fees, 8 per cent; gifts, bequests, 1 per cent; other sources, 5 per cent); res. scholaps and sp. funds, £231,850; allied instns. (adult educn.), £30,053.

**FACULTIES AND DEANS** *Arts & music*, Prof. G. R. Manton (classics); *comm.*, Prof. T. K. Cowan, *dent.*, Prof. Sir John Walsh (oral surg.); *home sci.*, Prof. Patricia D. Coleman; *law*, Prof. F. W. Guest, *med.*, Prof. E. G. Sayers (therapeutics); *sci.*, Prof. D. B. Sawyer (maths.); *theol.*, Prof. G. J. Williams; *theol.*, Rev. Dr. J. Henderson.

*Sch. of phys. educn.*, dir., Assoc. Prof. P. A. Smithells.

**UNIVERSITY PRECINCT** The main bldgs. are on the original univ. site, but the med. sch. has developed so as to be nr. the Dunedin hosp., about 4 ml. from the univ. site. The devel. of new bldgs. is being planned so that a continuous univ. precinct will link these 2 sections, using an existing public reserve on which the Otago museum stands. The whole area is in a residen-

tial district close to the shopping area of the town, and the regional planning authority of the city council has approved the univ. plans and zoned the area accordingly. The univ. district, incl. the city of Dunedin (pop. 105,053), comprises the land districts of Otago and Southland (pop. 270,067), but students in considerable numbers come from all parts of N.Z. to attend the sp. schs.

**LIBRARIES** Main library, incl. deptl. and class libraries, 166,588 vols.; med. library, 40,000 vols., also the Hocken collection of books, pamphlets and a large collection of MSS relating to hist. of N.Z. and the Pacific.

**LABORATORIES, MUSEUMS, FIELD STATIONS** Labs. in all sci., med., dent., mining and home sci. depts. Deptl. museums in art, pathol. and geol. Marine biological lab., Portobello (10 miles from Dunedin).

**TEACHING HOSPITALS** Dunedin Public; Wakari, Queen Mary Maternity; Paradise, Ashburn H. (psychiatric), Senciff Mental; Christchurch Public; Princess Margaret; Cashmere; Burwood; Sunnydale Mental; Wellington Public; Hutt; Auckland Public, and in Auckland city, Cornwall, Glenliffe, Middlemore, National Women's.

**ADMISSION** All those who have qualified for admission by passing the univ. entrance exam. or those who have been accredited by their schs. with a pass in this exam. or those who have secured an equivalent overseas qualif. are accepted without selection excepting for professional classes in med. and dent. and for phys. educn.

*Admission* admission at entrance level is determined by the Universities Entrance Board, P.O. Box 8035, Wellington, following individual application. Special conditions govern entrance to professional classes in the facs. of med. and dent., in which annual admissions are limited to 120 and 60 respectively, and entrance to the sch. of phys. educn., which admits up to 50 students annually. Non-members of the univ. if over 16 yrs. of age, are admissible to most classes.

**FIRST DEGREE** BA, BSc—3 yrs.; BSc hon. (biochem., bot., chem., geol., maths, microbio., phys., physiol., zool.), BCom, MSc, BHEC, LLB,

BE mineral & metall., BPharm—4 yrs., BDS—5 yrs., BMedSc—4 or 5 yrs.; MB ChB—6 yrs.

Courses for first degrees of BA and BSc are made up of units, each of which represents 1 yr.'s work in a subj. A BA course consists of 9 units and must include at least 4 units higher than stage 1, and include at least 1 stage 3 unit. A BSc course consists of 8 units, which must include 4 intermediate subs., 2 units of advanced: level and 1 unit at advanced 2 level.

The BSc honours course normally contains 4 intermediate subs., part 1, 2 and 3 of one of the subs. listed above together with prescribed subadj. subs. Admission to an honours sch. is subject to approval of senate.

HIGHER DEGREES. MA, MCom, MHSoc, LL.M., ME, MDS, MMedSc—1 yr. from corresp. bachelor's degree; MSc—2 yrs. from BSc, BD—2 yrs. from 1st degree (all facs.), PhD—3 yrs. from honours degree (all facs. except dent. and div.). Courses of instrum. provided for these degrees except PhD for which facilities for supervised res. available. A 4 yrs.' course of pt-time study and res. required for members of staff proceeding to PhD. The degrees of ChM, MD, DDS, LL.D., LittD, MusD and DSc may be earned without attendance or res. within the Univ. Grads. of other univs. are accepted as candidates for higher degrees by the univ. if their qualifs. are deemed to be of equivalent standard.

HONORARY DEGREES. LL.D., DSc, LittD, MusD.

EXTERNAL DEGREES. Extra-mural students are accepted only in certain courses (notably arts, comm., div. and law) and must reside within New Zealand.

DIPLOMAS, CERTIFICATES, ETC. DipEd, DPH, DipMirc, DipObst—1 yr.; DipMus—3 yrs.; dipls. in land surveying (3 yrs.), home sci. (3 yrs.), phys. educn. (3 yrs.), course for cert. in statistics (1 yr.), postgrad.: dipl. of diagnostic radiol. (2 yrs.), assoc. of Otago Sch. of Mines (thesis).

SPECIAL RESEARCH FACILITIES. Labs. of the med. res. council of N.Z., the British Empire cancer campaign (N.Z. branch), Empire rheumatism council and Travis trust (tuberculosis res.) are housed in med. and dent. sch. bldgs., and administered through the univ. Sp. coal res. labs. are associated with the fac. of technol. Hydatids res., under grant from the N.Z. govt., is associated with the sch. of med. A list of publications by members of staff and students appears in the annual Univ. Calendar.

STUDY LEAVE. Refresher leave is granted on salary, and normally a special travel grant is provided. In general, the council will regard as eligible for long leave (3 terms) an applicant who has completed 6 yrs.' service before departure, and as eligible for short leave (2 terms) an applicant who departs during or after the last term of the 5th yr. of service.

FEES (approx.) for each yr. of the courses: Arts (3 yrs.), £50 (4th yr. for MA extra, £25); sci. (3 yrs.), £70 (4th yr. for MSc extra, £35); law (5 yrs.), £55, comm. (4 yrs.), £40; mineral & metall. (BE) (4 yrs.), £80; home sci., dipl. (3 yrs.), £95, BHSoc (4 yrs.), £95 (5th yr. for MHSoc extra, £35), med. (5 yrs.), intermediate £30, professional £40, dent. (3 yrs.), intermediate £30, professional £40; phys. educn. (3 yrs.), £35.

Exam. fees (not incl. above) up to £12 per yr.

ACADEMIC YEAR. March to Nov.: 3 terms of 9, 10, 7 weeks.

ADULT EDUCATION. This dept., financed through natl. council of educn., undertakes general tutorial classes in Dunedin and Invercargill, and in country districts throughout the land district of Otago and Southland. Through these, and specialized work carried out by drama, music and home sci. extension tutors, community activities and appreciation of the arts are developed. Special short 'summer schools' in poetry and drama have been held, but no regular vacation courses are offered.

PRINCIPAL 'OPEN' AWARDS. Students who have univ. entrance qualif. qualify for fees bursaries. Those who have qualified for entrance and gained a higher sch. cert. after an additional yr. at sch. are entitled to hold fees and allowances bursaries which include a boarding allowance where applicable. Continuance of bursaries is dependent on exam. results.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS. Commonwealth Scholarships and Fellowships (see Appendix VII), and Research Fellowships. Applicants for awards must be made to the Secretary, University Grants Committee, P.O. Box 8035, Wellington.

GRADUATES' ASSOCIATION. Univ. of Otago graduates' assocn. publishes annually a *Prec-Chancellor's Newsletter to Graduates*.

STUDENT RESIDENCES (for wardens see 'Administrative and Other Staff', above). (Fees: from £4 to £6 per wk.) Selwyn Coll., Castle St., Dunedin, N.1 (tel.: 88-326) (Anglican), 90 men; Knox Coll., Opoho, Dunedin, N.E.1 (tel.: 39-102) (Presbyterian), 111 men; St. Margaret's Coll., Leith St., Dunedin, N.1 (tel.: 77-030) (Presbyterian), 122 women; Arana Hall, 110 Clyde St., Dunedin, N.1 (tel.: 78-135) (inter-denominational), 100 men; Carrington Hall, 57 Heriot Row, Dunedin, N.1 (tel.: 78-512) (inter-denominational), 60 men and 60 women; Dominican Hall, 44 Park St., Dunedin, N.1 (tel.: 70-388) (Catholic), 46 women; Studholme Hall, Clyde St., Dunedin (tel.: 80-791), 116 women; Aquinas Hall, 74 Gladstone Rd., Dunedin (tel.: 39-003) (Catholic), 83 men.

STAFF RESIDENCES. Temp. housing for new members of staff arranged by a sp. cttee. of univ. council.

O.U. MEDICAL COMPANY. Two weeks' annual camp, and day parties each term.

STUDENT INFIRMARY SERVICE. Voluntary enrolment by students allows for periodical health assessments and discussions as well as sickness care.

UNIVERSITY UNION. The Otago Univ. students' assoc. has offices in the union bldg., which contains a union hall, rooms for student societies, common rooms for men and women, lockers, toilets and a canteen. A miniature theatre is located in Allen Hall.

PUBLICATIONS. *Calendar* (Dec), 1961, A

*History of the Univ. of Otago, 1859-1959*, G. E. Thomson, 4/p. *Annals of Univ. of Otago Med. School, 1875-1959*, D. W. Carmalt-Jones, 4/p. *Proceedings of Otago Med. School Research Soc.* (annual); *Fac. Handbooks* (dent., home sci., phys. educ.); *Bulletin* (technol.); *Guide to Portobello Aquarium*; *Studies in the Univ. of Otago*; home sci. extension and adult educ. dept. *Bulletin* (appear irregularly); inaugural and other lectures; student publications—*Crite* (fortnightly), *Review* (annual), *Digest* (medical, annual); *Science Record* (annual); *Dentago* (annual).

UNIV. OF OTAGO PRESS. Founded 1958, publishes include inaugural and other lectures.

## THE YEAR 1961

PRINCIPAL BENEFACTIONS. Addition of £20,000 to McGilivray Brothers Fund for med. res.

MAJOR BUILDING DEVELOPMENTS. *Bldg.* approaching completion. Wellcome Med. Res. Inst.

NEW DEPARTMENTS AND CHAIRS. Med. res.; psychol. med.; stats.; psychol.

RETIREMENTS. AVICE M. Bowbyes (home sci.); Prof. E. Gregory (home sci.); Dr W. E. Henley (sub-dean, med. fac., Auckland); Dr. J. O. Meares (sub-dean, med. fac., Wellington); Dr J. F. Landreth (sub-dean, med. fac., Christchurch); Dr. H. M. S. Thomson (home sci.).

RESIGNATIONS. Dr R. E. Ballantyne (prev. & soc. med.), to private practice; Miss Betty M. Bernadelli (psychol.), apptd. & lectr. in psychol., Auckland; Dr H. Bernadelli (econ.), apptd. assoc. prof. in econ., Auckland; Dr G. Blake-Palmer (mental diseases), apptd. dir. of mental hyg., health dept.; Dr J. E. L. Carter (phys. educn.), apptd. asst. prof. of phys. educn., State Coll. of San Diego; Assoc. Prof. J. E. Caughy (neurol.), apptd. full-time M.R.A. unit; Dr D. V. Connor (educn.), apptd. asst. lectr. in educn. res. unit, N.S.W.; P. Harvard-Williams (librarian), apptd. librarian, Belf.; Dr W. MacBain (mod. langs.), apptd. sr. lectr. in French, Melb.; Prof. A. K. McIntyre (physiol.), apptd. to chair of physiol., Monash; Dr G. H. Satchell (physiol.), apptd. sr. lectr. in scol., Adelaide; Dr D. W. Seda (maths.), apptd. assoc. prof. in maths., Can.; Dr F. C. Stiehl (obstet. & gynaecol.), to private practice; Juliet F. Toussaint (psychol.); Dr N. D. Walker (prev. & soc. med.), to private practice.

DEATHS. Emer. Prof. J. R. Eides (hist.), Rev. Dr. A. L. Haddon (theol.).

HONORARY DEGREES. LL.D.—Dr. R. J. T. Bell, formerly prof. of maths.; Sir Charles Heape, formerly dean, med. fac.; Rev. H. J. Ryburn,

chancellor. Litt.D.—Dr H. D. Skinner, formerly dir. Otago museum. D.Sc.—Dr W. P. Gowland, formerly prof. of anat.

### Statistics

#### STUDENT NUMBERS, 1962

	Full-Time	Part-Time	External
Men	1599	548	169
Women	698	196	35
Total	2297	738	204*

Distribution by Faculties. Arts & music, 842; com., 344; dent., 170; div., 22; home sci., 188; law, 143; med., 608; phys. educn., 125; physiotherapy, 68; radiography, 11; sci. (incl. inter), 699; technical, 39. Total, 3239.

Included in the figures above are—

Postgraduate students, 263

New admissions, 671.

Students from other countries, 96 (Countries from which largest numbers came: Fed. of Malaya, 31; Fiji, 12; Indonesia, 12; Borneo, 9; Thailand, 9).

#### DEGREES AWARDED (by Univ. of N.Z.) (1961)

Arts: BA, 69; MA, 21. Com., B.Com., 20. Dent.: BDS, 38. MDS, 2. DDS, 2. Eng.: B.E., 2. Engin.: B.E., 8. Home sci.: BHS, 10. Law: LL.B., 8. LL.M., 1. LL.D., 1. Med.: BMedSc, 1; MMedSc, 2; MB ChB, 89; PhD, 1; MD, 7. Music: MusB, 1. Sci.: BSc, 35; MSc, 17; PhD, 1; DSc, 2. Total number of first degrees awarded, 279.

#### DIPLOMAS AWARDED (1961) By Univ. of N.Z.

DipEd, 4; DipMuz, 1; DipHist, 1; DPH, 4. By Univ. of Otago: DDR, 1, DipHSc, 34. DipPhysEd, 29.

#### CERTIFICATES AWARDED (1961). Stats., 3

\* Total 59 students receiving extra-mural tuition from the then Palmerston North Univ. Coll. (see pp. 775-778)

# VICTORIA UNIVERSITY OF WELLINGTON\*

Founded 1897

Postal Address: P O. Box 196, Wellington, C.1, New Zealand

Telephone: 46-046

VISITOR—H.E. THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—T. D. M. STOUT, CBE, DSO, ChM, FRCS

PRO-CHANCELLOR—P. P. LYNGE, CBE, Hon. LL.D. N.Z.U., BSc MD N.Z., FRACP

VICE-CHANCELLOR—J. WILLIAMS, PhD Hon. LL.D. Camb., LL.M. N.Z.

REGISTRAR—L. O. DESBOROUGH, BCom N.Z.

LIBRARIAN—H. G. MILLER, MA N.Z.

## TEACHING STAFF

[†=Part-Time]

Accountancy			
Sidebottom, R., BA(Com) <i>Mans</i>	Prof.	Dasent, W. E., MSc N.Z.	Sr. Lectr.
Rodger, W. G., OBE, JP, BCom N.Z., FPANZ, FIANZ, FCIS	Sr. Lectr.	Matheson, R. A., MSc PhD N.Z.	Lectr.
Taylor, D. de P., BCom N.Z.	Sr. Lectr.	Curtis, N. F., MSc PhD N.Z.	Lectr.
Barton, H. D. W., BCom N.Z.	Sr. Lectr.	Segal, W., MSc PhD <i>Melb</i>	Lectr.
Oed, G. V., BCom N.Z., FPANZ	Sr. Lectr.	...	Lectr.
...	Sr. Lectr.	House, D. A., MSc N.Z.	Jr. Lectr.
Roebuck, D., MA <i>Oxon</i>	Lectr.	...	Jr. Lectr.
Vogelberg, G., BCom N.Z.	Jr. Lectr.		
Burton, R. C. C., LL.M. N.Z.	†Lectr.	Classics	
Asian Studies		Murray, H. A., MA <i>Aberd.</i> , BA <i>Camb</i>	Prof.
Palmier, L. H., BSc(Econ) PhD <i>Lond</i>	Assoc. Prof.	Kalfas, Mrs. Denise D. H., MA <i>Syd</i> & Oxon., DipClassArchaeol <i>Oxon.</i>	St. Lectr.
Gupta, B. J., BA <i>Agra</i> , AM <i>Yale</i> , PhD <i>Chic.</i>	Lectr.	Morgan, M. G., PhD BA <i>Ess.</i>	Lectr.
Botany		Longrigg, J., BA <i>DipEd Natal</i> , BLitt <i>Oxon.</i>	†Lectr.
Gordon, H. D., BSc PhD <i>Edin.</i>	Prof.	Calvert, R. L., MA <i>Oxon</i>	Lectr.
Gibbs, J. O., PhD <i>Minn.</i> , MAgSci N.Z.	Sr. Lectr.	Economics	
Johnson, H. W., MSc N.Z.	Sr. Lectr.	Holmes, F. W., MA N.Z.	T. G. MacCarthy Prof.
Dawson, J. W., MA N.Z.	Lectr.	Gould, J. D., BA <i>Lond</i> , MA <i>Brist</i>	St. Lectr.
Sampson, F. B., MSc N.Z.	Jr. Lectr.	Castle, L. V., MA N.Z.	Sr. Lectr.
Chemistry		Jackson, L. F., MA N.Z.	Sr. Lectr.
Slater, S. N., DPhil <i>Oxon.</i> , MSc N.Z., FRIC	Prof., Hd. of Dept.	Sloan, D., MA <i>Edin.</i> , BComSc <i>Belf.</i> , PhD <i>Natal</i>	St. Lectr.
Duncan, J. P., DSc DPhil MA <i>Oxon.</i> , MSc <i>Melb.</i> , FRACI	(Theoret. C.) Prof.	Lloyd, P. J., MA N.Z.	Lectr.
Truscott, R., MSc <i>Lond</i> , PhD <i>Warren</i> (Biochem.)	Assoc. Prof.	McCann, E. B. M., MA N.Z.	Jr. Lectr.
England, B. D., MSc PhD <i>Lond</i>	Sr. Lectr.	Baker, J. V. T., MA MCom N.Z.	†Lectr.
Harvey, W. E., PhD <i>Camb.</i> , MSc N.Z.	Sr. Lectr.	Vautier, C. P. W., MCom BA PhD N.Z.	†Lectr.
Whelan, A. T., PhD <i>Calif.</i> , MSc N.Z.	Sr. Lectr.	Education	
		Bailey, C. L., MA <i>DipEd N.Z.</i>	Prof.

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Fieldhouse, A. E., PhD Lond, MA  
DipEd N.Z.  
Stroobant, R. E., MA N.Z.  
McLaren, I. A., AM Chic, MA N.Z.  
Ma'u'a, Pama'i, PhD Lond, MA N.Z.  
Williams, N., BA DipEd Durk

Assoc. Prof.  
Sr Lectr.  
Sr Lectr.  
Lectr.  
Lectr.  
Lectr.

Vella, P. P., MSc N.Z.  
Kotaka, T.

Lectr.  
Lectr.  
Lectr.

## German, see Mod. Langs.

## History

Wood, F. L. W., MA Oxon., BA Syd.  
Berghele, J. C., CMG, PhD Lond,  
MA N.Z.  
(Colonial H.) Sr. Res. Fellow, Lectr.  
Munz, P., PhD Camb, MA N.Z. Assoc. Prof.  
Oliver, W. H., DPhil Oxon., MA N.Z. Sr. Lectr.  
Boyd, Mrs. Mary B., MA N.Z. Lectr.  
Avey, Margaret E., MA Lond. Lectr.  
Brughele, T. H., BA PhD Camb,  
MA N.Z. Lectr.  
Tylet, W. T. N., MA N.Z. Lectr.  
Miller, H. G., MA N.Z. Hon. Lectr.

## Italian, see Mod. Langs.

## Law, English and New Zealand

Campbell, I. D., LL.M. N.Z. Prof.  
Ingis, B. D., BA LL.D. N.Z., JurDr Chic. Sr. Lectr.  
Balton, G. P., PhD BA LL.M. N.Z. Sr. Lectr.  
Burke, W. R., LL.M. N.Z. Lectr.  
Cann, G., LL.M. N.Z. Lectr.  
Comber, S. A., LL.B. N.Z. Lectr.  
Haidre Boys, M., LL.B. N.Z. Lectr.

Jones, Florence R., MA N.Z. Jr. Lectr.  
Murray, P. J. M., MA N.Z., BA Oxon. Jr. Lectr.  
" " " " Jr. Lectr.  
" " " " Jr. Lectr.

## Law, Jurisprudence

Aikman, C. C., PhD Lond, LL.M. N.Z. Prof.  
Matheson, D. L., LL.B. N.Z., BCL Oxon. Sr. Lectr.  
Keith, K. J., LL.B. N.Z. Jr. Lectr.

## Mathematics

Campbell, J. T., PhD Edin., MA N.Z. Prof.  
Maclean, A. G., MA Edin., BA Camb.  
PhD Str. Adv. (Appl. M.) Prof.  
Seelye, C. J., PhD Edin., MSc N.Z. Assoc. Prof.  
Burns, J. C., BA Camb., PhD Manc. Assoc. Prof.  
MSc N.Z.  
Patterson, D., MA MSc N.Z. Sr. Lectr.  
Havas, D. C., MSc N.Z. Sr. Lectr.  
Malcolm, W. G., MA N.Z., BA Camb. Lectr.  
" " " " Lectr.  
Renner, R. M., MSc N.Z. Jr. Lectr.  
Gallagher, Pauline I., MA N.Z. Jr. Lectr.  
Pearce, C. R. M., MSc N.Z. Jr. Lectr.

## Modern Languages

Noonish, P. J., MA PhD Camb. (French) Prof.  
Huntington, Frances M., MA N.Z. (French) Sr. Lectr.  
Currad, D. B., MA Oxon. (German) Sr. Lectr.  
Somni, A. (Italian) Sr. Lectr.  
Danlow, N., PhD Drjur Vienna, MA N.Z. (Russian) Sr. Lectr.

## English Language and Literature

Gordon, I. A., MA PhD Edin., LL.D. Brnt. Prof., Hd. of Dept.  
Brosmahan, L. F., MA N.Z., DLitt. (E. Lang.) Prof.  
Stevens, Joan, MA Oxon. & N.Z. Assoc. Prof.  
Bertram, J. M., MA Oxon. & N.Z. Sr. Lectr.  
McKenzie, D. F., PhD Camb., MA N.Z. Sr. Lectr.  
Culthord, S. G., DSO, PhD Lond, MA N.Z. Hon. Lectr.  
Wright, J., MA N.Z. Lectr.  
Johnston, S. F. W., MA N.Z. Lectr.  
Ossman, H. W., MA N.Z. Lectr.  
Creedy, A. J., MA Camb., BA Lond. Lectr.  
O'Sullivan, V., MA N.Z. Lectr.  
Savage, R. T., MA Camb. Lectr.  
" " " " Lectr.  
" " " " Jr. Lectr.

## English Language Institute

Pittman, G., BA DipEd W. Aust. Dir.  
Woolston, Mrs. Helene L., MA Harvar. (Linguistics) Lectr.  
Kennedy, G. D., MA N.Z. Jr. Lectr.  
Lawrence, Louise K., BA N.Z. Jr. Lectr.

## French, see Mod. Langs.

## Geography

Buchanan, K. M., BA Brnt. Prof.  
McKenzie, D. W., MSc N.Z. Assoc. Prof.  
Franklin, S. H., BCom Brnt. Sr. Lectr.  
Watters, R. F., MA PhD N.Z. Sr. Lectr.  
Wheeler, R. H., MA N.Z. Lectr.  
Macneil, J. W., MSc Lond, BSc N.Z. Lectr.  
Proebner, J. D. M., BA Oxon. Jr. Lectr.

## Geology

Clark, R. H., PhD Edin., MSc N.Z., FGS. Prof.  
Bradley, J., DipEd DSc Durk. Assoc. Prof.  
Wellman, H. W., DSc N.Z. Sr. Lectr.  
Buggs, M. H., BSc Lond, MS Camb. Sr. Lectr.  
" " " " Sr. Lectr.  
" " " " Sr. Lectr.  
Lauder, W. R., BE MSc N.Z. Lectr.



McArthur, D. G. M., MA N.Z., DUPont (French) Sr Lectr	
Hoffmann, P., PhD Vienna, MA N.Z. (German) Lectr.	
Groomall, M. H., MA N.Z. (French) Lectr	
Piper, Marion V., BA Nott, L&L Lyons (French) Lectr.	
Jameson, Mrs. Madeleine D., L&L Lalle (French) Jr Lectr	

**Music**

Page, F. J., MusB N.Z.	Prof
Lilburn, D. G.	Sr Lectr.
Farquhar, D., BA Camb. & N.Z., MusB N.Z.	Lectr.
Nelson, Margaret A., MA Calif, MusB N.Z.	Jr. Lectr.

**Philosophy**

Hughes, Rev. G. E., MA Glas.	Prof.
Hudson, H., MA DipEd N.Z.	Sr Lectr.
...	Se. Lectr.
Lloyd-Thomas, D. A., MA N.Z.	Lectr.

**Physics**

Walker, D., PhD Birm, MSc N.Z., FIP	Prof
Peddie, G. A., MA N.Z.	Assoc. Prof.
Hooton, D. J., PhD Edu., MSc N.Z. (Theoret. P.)	Se. Lectr.
Christoffel, D. A., MSc N.Z., PhD Nott.	
...	Sr Lectr.
Gould, R. N., MSc Lond., PhD Hall	Se. Lectr.
Mawdsley, J., MSc N.Z. & Camb (Radiophys.)	Sr Lectr.
Nixon, J. E. A., BSc Lond (Appl. Electronics)	Sr Lectr.
Humphrey, R. W., MSc N.Z.	Lectr.
Chapman, N. G., MSc PhD N.Z.	Lectr.
Gelfen, J. W., MSc N.Z.	Lectr.
Shutcliffe, T. G. L., MSc N.Z.	Lectr.
McLachlan, L. A., MSc N.Z.	Jr. Lectr.
Ross, D. I., MSc N.Z.	Jr. Lectr.

**Political Science and Public Administration, School of**

Brookes, R. H., BSc(Econ) Lond	Prof.
Roberts, J. L., LLB DPA N.Z. (Pub. Admin.)	Sr Lectr.
Harrison, R. J., BSc(Econ) Lond, BA De Pauw	Lectr.
Robinson, A. D., MA N.Z.	Lectr.
Murphy, W. E., BA N.Z.	Lectr.

**Psychology**

Beaghehole, E., PhD DLit Lond, MA N.Z., FRSNZ	Prof.
Adcock, C. J., PhD Lond., MA N.Z.	Sr. Lectr.
Ritchie, J. E., MA PhD DipEd N.Z.	Sr. Lectr.
Vaughan, G. M., MA N.Z., PhD	Lectr.
Taylor, A. J. W., MA N.Z., CertSocSci&Adm L.S.E.	Lectr.
...	Lectr.

**Russian, see Mod. Langs****Social Science, School of**

Minn, W. G., MA Camb.	Prof-in-Charge
McCree, J. R., MA N.Z.	Sr Lectr.
Robb, J. H., MA BSc(Econ) PhD Lond.	
...	Sr. Lectr.
VandenBerg, Mrs. Dorothy M., MA N.Z.	Lectr.
Mason, Barry M., CertSocSci&Adm MonHlthCst L.S.F.	Lectr.
Thompson, A. W. S., OBE, MB ChB N.Z., FRCPED	†Lectr.
Taylor, N. R., LLB N.Z.	†Lectr.

**Zoology and Biology**

Richardson, L. R., PhD MSc McG.	Prof.
Fell, H. B., PhD Edu., DSc N.Z.	Assoc. Prof.
Salmon, J. T., DSc N.Z. (Biol.)	Assoc. Prof.
Ralph, Patricia M., DSc N.Z.	Se. Lectr.
...	Sr Lectr.
Garnick, J. A. P., MSc N.Z.	Lectr.
Balham, R. W., MA N.Z., PhD Missou.	Lectr.
Castle, P. H. J., MSc N.Z.	Jr. Lectr.

**ADULT EDUCATION**

Dakin, J. C., MA Oxon, BA N.Z.	Dir.
Cook, W. C., BA MCom N.Z.	Tutor-Organizer
Easterbrook-Smith, W. H. B., BA N.Z.	
...	Tutor-Organizer
Hagg, N. T., BA N.Z.	Tutor-Organizer
Garratt, D., BA N.Z.	Tutor-Organizer
Williams, A. T., BA N.Z.	Tutor-Organizer
Bennett, K. M., BA N.Z.	Tutor-Organizer

**Specialist Tutors**

Martin, Nancy	(Music)
Bryan, Joan M.	(Home Sci.)
Laird, J. D.	(Arts & Crafts)
Brown, Mrs. Joan	(Home Sci.)
Parker, W.	(Mascul Adult Educn.)
Atkinson, June M.	(Music)
Newman, F.	(Drama)

**ADMINISTRATIVE AND OTHER STAFF**

Asst Registrars. W. Summers, JP, BCom  
N.Z., FRANZ, W. D. Dawson, MA N.Z.;  
D. B. Leadbetter, MSc. Asst to Vice-Chancellor.  
S. G. Culliford, DSO, PhD Lond., MA DipEd

N.Z. Liaison Officer with Post-primary Schs.:  
R. Hogg, MA N.Z. Phys Educn. Instr.: W. H.  
Landreth. Warden, Weir House: N. Williams.

## ASSOCIATED COLLEGE

MASSEY UNIVERSITY COLLEGE OF MANAWATU, *see* p. 778.

## GENERAL INFORMATION

Victoria Univ. of Wellington was estab'd in 1957 by an amendment act which reconstituted Victoria Univ. Coll. and declared the univ. to be a constituent instn. of the Univ. of N.Z. The univ. became autonomous in 1962 following dissolution of Univ. of N.Z. The former instn., Victoria Univ. Coll., was the last of the 4 main constituent colls. of the Univ. of N.Z. to be estab'd. It thus completed, apart from special provision for agric. teaching, the general structure of the country's instns. for univ. work. In 1889 Sir Robert Stout, then premier, introduced a bill to found a coll. serving the Wellington, Hawke's Bay and Taranaki districts. It was Stout's hope that the Wellington coll., being at the seat of govt. and of the court of appeal, might specialize in the teaching of law, pol. sci. and hist., as well as in some depts. of sci. The bill passed the house of representatives, but was shelved by the legislative council. A new ministry coming into office in 1888, the matter lapsed for 7 more yrs., in spite of the constant urging of the univ. senate and court of convocation. In 1894 Stout again came forward with a 'Middle District of New Zealand Univ. Coll. Bill'—the Middle District now comprising not merely Wellington, Hawke's Bay and Taranaki, but Nelson, Marlborough and Westland as well. No provision could be made in a private member's bill for the expenditure of money and though the bill was finally passed and the govt. even apptd. certain members of a coll. council, no further action was taken. The final step was taken by Mr Seddon, the premier, on his return from the diamond jubilee celebrations. His Victoria College Act, passed on Dec. 22, 1897, founded the coll. 'in commemoration of the 60th yr. of the reign of H.M. Queen Victoria'. It was to be a liberal foundation, bringing univ. educn. within the reach of the working classes. The coll. was affiliated to the Univ. of N.Z. in 1899. It was endowed by govt. with 4000 acres. Coll. bldgs., towards which govt. gave £31,000, were opened in 1905; addnl. wings for library, etc., and for phys. erected 1921-22; new admin. and hool. blocks erected 1937-39; 3rd storey to hool. block completed in 1954. Six-storey sci. block completed in 1958. Student union bldg. and extra. to admin. bldg. completed 1961.

The govt. approved of a grant to the univ. for the establishment in 1960 of a branch coll. at Palmerston North, a city some 95 miles N. of Wellington, where Massey Coll. was situated. This branch coll. was known as Palmerston North Univ. Coll.

In 1962 the Massey Univ. Coll. of Manawatu

Act was passed merging Palmerston North Univ. Coll. and Massey Coll. into one univ. coll. of that name. This act, which came into force on Jan. 1, 1963, associated the coll. (*see* pp. 775-778) with the Victoria Univ. of Wellington for the purpose of granting degrees.

**CONSTITUTION.** The council, the governing body of the univ., consists of the vice-chancellor (*ex officio*) and 17 other members apptd. or elected as follows: 2 by the governor-in-council, 4 by the court of convocation, 2 by the professional bd., 1 by the teaching staff, 2 by the Wellington city council, 2 by members of educn. bds., 1 by governing bodies of secondary schs., 2 by teachers in primary schs., 1 by teachers in secondary and day technical schs., 1 by the executive of the students' assocn.

**INCOME (1961).** Total income, £527,219 (govt. grant, £476,219; student fees, £50,000; other sources, £1000).

**FACULTIES AND DEANS.** Arts, Prof. F. L. W. Wood (*inst.*), comm., Prof. F. W. Holmes (*econ.*); law, Prof. J. D. Campbell, *sc.*, Prof. H. D. Gordon (*bot.*).

**LIBRARY.** Approx. 107,108 vols. Available to staff, students, grad., and others by arrangement at nominal fee. N.Z. Royal Soc. lib. also housed in univ. bldg. and available to staff and students.

**LABORATORIES.** Bot., chem., educn., geog., geol., phys., psychol., zool.

**ADMISSION.** As prescribed by entrance bd. of Univ. Grants Ctee.

**FIRST DEGREES.** 3 yrs.—BA, BAgr (4th yr. for BAgrSc provided candidate does not graduate BAgr), BAgr(Hort), BFoodTech, BSc pass, home, 4 yrs.—BAgrSc, MusB pass, home, BCom, 5 yrs.—LLB, also 1st yr. of degree courses in dent., engin., home sci., med.

**HIGHER DEGREES.** 1 or 2 yrs.—MA, MSc, MCom, LL.M., MAgrSc, MFoodTech; 2 yrs.—PhD; 5 yrs. 'standing as master and an approved thesis—LL.D., MusD, D.Litt., DSc.

**HONORARY DEGREES.** LL.D., DSc, D.Litt., MusD.

**DIPLOMAS.** Educn., 1 yr. postgrad. or 2 yrs. undergrad.; banking, music, 3 yrs.; pub. admin., soc. sci., 2 yrs.; teaching of Engl. as second lang., 2 yrs.

**FEES.** Arts (3 yrs.), about £165 (MA, £30 addnl.), sci. (3-4 yrs.), about £225 (BSc hon., £33 addnl., MSc, £30 addnl.); law (4-5 yrs.), about £200 (LL.M., £30 addnl.), comm. (4

yas), about £170 (MCoen, £10 addnl). Exact fees vary in accordance with wlys. chosen. Diplo in pub. admin, soc sci, each £63.

**ADULT EDUCATION.** Adult educn. has been provided for since 1915, when the W.E.A., then at the outset of its work in N.Z., establd 3 tutorial classes in Wellington. In 1945 the Adult Education Act was passed, which set up a natnl council and 4 regional councils. Regular classes and discussion groups are now arranged throughout the Middle District.

**RESEARCH SCHOLARSHIPS.** (2) Univ. 122

scholps of £450 p.a. for 2 yrs. Sr. Jacob scholps. for full-time postgrad. res; value and duration determined by the council in each case.

**RESIDENCE.** Weir House, Solamanea Rd., Kelburn, accomm. for about 99 men students. Fees, approx. £5 per wk. (For women, see 'Admin. and Other Staff', above.)

**PUBLICATIONS.** *Calendar*, 32. (Dec.); *Spirs* (students' magazine), normally publd. towards end of each session; *The Middle District*, a publicn. issued to graduates.

## THE YEAR 1961

**NEW CHAIRS.** Appl. maths, bus. admin., Engl. lang., theoret. & inorg. chem., res. chair of nuclear phys.

**RETIREMENTS.** Assoc. Prof. A. B. Cochran (Engl.), Assoc. Prof. H. C. D. Somerset (educn.)

**RESIGNATIONS.** C. B. B. Bull (phys.), appd to res. position, Puler Res. Inst., Ohio State Univ.; E. W. Collings (phys.), appd. sr. res. physicist, Franklin Inst. Lab., Philadelphia.

**DEATHS.** Emer. Prof. H. Belshaw (prof. of econ., 1951-58); Prof. K. J. Scott (prof. of pol. sci., 1961).

### Statistics

STUDENT NUMBERS, 1962  
(as at beginning of the academic year)

	Full-Time	Part-Time
Men	1179	1615
Women	454	336
Total	1633	1951

Distribution by Faculties: Arts, 1378; Comm., 831; Law, 371; Pub. Admin., 12; Sci., 970; Soc. Sci., 22. Total, 3584.

Included in the figures above are:—

Postgraduate students, 270

New admissions, 854

Students from other countries, 119 (Countries from which largest numbers came: Fiji, 30; Samoa, 13; Sarawak, 12; Thailand, 10; North Borneo, 10; Singapore, 9)

**DEGREES AWARDED** (by Univ. of N.Z.) (1961)  
Arts, BA, 154; MA, 33. Comm. BCom, 40.  
Law LLB, 42; LL.M., 2. Music MusB, 5.  
Sci.: BSc, 76; BSc. hon., 8; MSc, 20.

**DIPLOMAS AWARDED** (1961) By Univ. of N.Z.:  
DipEd, 7; DipBank, 5; DipMus, 3. By Victoria Univ. of Wellington: DipSocSci, 6, dipl. in teaching of Engl. as second lang., 33.

# MASSEY UNIVERSITY COLLEGE OF MANAWATU\*

Founded 1963 by merger of Massey College (founded 1926) and Palmerston North Branch  
(founded 1960) of Victoria University of Wellington

Postal Address: Massey College P.O., Palmerston North, New Zealand

Cables and Telegrams: Massey College, New Zealand

Telephone: 80059 Palmerston North

VISITOR—THE HON. THE MINISTER OF EDUCATION

CHAIRMAN OF COUNCIL—

PRINCIPAL—A. STEWART, DPhil Oxon., MAgrSc N.Z.

REGISTRAR—A. J. WEBB, JP, BSc N.Z.

LIBRARIAN—

## TEACHING AND RESEARCH STAFF

[J=Joint member of staffs of the College and Dairy Research Institute, †=Part-Time]

<b>Botany</b>		Wallace, G. M., BSc N.Z., FNZIC	Sr. Lectr.
Yeates, J. S., PhD Camb. & N.Z.,		Larumen, G. W., BE BSc N.Z.	Sr. Lectr.
MSc N.Z.		Haikress, W. L., DipDy M A C	§Lectr.
Campbell, Isla O., MA N.Z.		Le Heron, B. S., DipDy M A C	§Lectr.
Slipworth, J. P., MSc N.Z.			
<b>Chemistry and Biochemistry</b>		<b>Geography</b>	
Hawke, J. C., PhD Camb., MSc N.Z.		Thompson, K. W., MA PhD Wamb.,	
Si. Lectr., Hd. of Dept		BA N.Z.	
Brooks, R. R., BSc Brit., PhD Caps T		Saunders, B. G. R., BA N Staffs, MA	
Sr. Lectr.		DipEd Adel.	
Richards, E. L., PhD Brit., MSc N.Z.		Warr, E. C. R., MSc(Econ) Lond,	
Sr. Lectr.		BA N.Z.	
Greenett, M. R., MSc N.Z.		Hounsell, D. C., BA N.Z.	
Asst. Lectr.		Asst. Lectr.	
<b>Education</b>		<b>History</b>	
Beresford, H. B., MA Camb., BEd Edu.,		Vere-Hodge, F. R., MA Camb.,	
PhD Natal		PhD Geneva	
Si. Lectr.		Owens, J. M. R., MA Oxon	
Bray, D. H., PhD Lond., MA DipEd N.Z.		Lectr.	
Lectr.		Halberstan, Lucie, MA N.Z.	
Cooper, A. W., MA DipEd N.Z.		Lectr.	
Fieyberg, P. S., MA DipJoun DipEd N.Z.		<b>Mathematics</b>	
Lectr.		.....	
<b>English</b>		Whitehead, G. V., MA Camb	
Tye, J. R., MA Oxon		Lectr.	
Sr. Lectr.		Halford, W. D., MSc N.Z.	
Alcock, P. C. M., MA DipJoun N.Z.		Asst. Lectr.	
Lectr.		<b>Modern Languages</b>	
O'Gorman, J. P., MA Oxon		Dunmore, J., BA Lond., MA PhD N.Z.	
Lectr.		Lectr.	
Pepper, C. R. D., MA Montclair		<b>Veterinary Science</b>	
Lectr.		Cunningham, I. J., CBE, PhD Aberd.,	
Tolley, M. J., BA Lond		BVSc Syd., DSc N.Z.	
Lectr.		Prof.	
Gillespie-Nedham, Dulcie N., MA N.Z.		Newhook, J. C.	
Asst. Lectr.		Sr. Lectr.	
<b>Food Technology</b>		Reynolds, B. A.	
Scott, J. K., BE N.Z.		Lectr.	
Logan Campbell Prof.			
Henson, J. H., BAgSc N.Z.			
Sr. Lectr.			
Morris, H. A. L., BSc N.Z.			
Sr. Lectr.			
Sempleton, J. A., BSc BAgSc N.Z.			
§Sr. Lectr.			

\* Associate Member of the Association of Universities of the British Commonwealth

**Zoology**

Garr, L., MSc N.Z.  
 Boshier, D. P., MSc N.Z.  
 Dale, G. P., MSc N.Z.

Sr. Lectr.  
 Lectr.  
 Lectr.

**Physics and Engineering**

McGregor, A. A. D., BE MSc N.Z.  
 Sr. Lectr., Hd. of Dept.  
 Hodgson, E. R., MSc N.Z.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Dickson, A. J.

**AGRICULTURAL AND HORTICULTURAL SCIENCE****Agricultural Economics and Farm Management**

Candler, W. V., PhD Iowa, MAgSc N.Z.  
 Walter Buchanan Prof.  
 Hodgson, J. N., BAgSc N.Z.  
 Sr. Lectr.  
 Rudler, D., BSc(Econ) Lond.,  
 MSc(AgEcon) Ill.  
 Sr. Lectr.  
 Ward, A. B., BSc(Econ) Lond.  
 Sr. Lectr.  
 Watson, N., DipAg DepVFM C.A.C.  
 Sr. Lectr.  
 Hughes, A. H., MS Wis., MAgSc N.Z.  
 Lectr.  
 MacGillivray, P. A., BAgSc N.Z.  
 Lectr.  
 Sargent, E. D., BSc Duss.  
 Lectr.  
 Gilliland, H. B., LLB  
 Lectr.  
 Thompson, P. S., BCom  
 Lectr.

**Dairy Husbandry**

Campbell, I. L., PhD Missouri,  
 BAgSc N.Z.  
 Prof.  
 Flux, D. S., PhD R'dg., MAgSc N.Z.  
 Sr. Lectr.  
 Dunkin, A. C., MSc(Agric) Lond.  
 Sr. Lectr.  
 Davey, A. W. P., BAgSc N.Z.  
 Lectr.  
 Mursford, R. E., MAgSc N.Z.  
 Lectr.  
 Wilson, G. F., MAgSc N.Z.  
 Asst. Lectr.

**Horticulture**

Hockey, K. C.  
 Sr. Lectr., Hd. of Dept.  
 Richards, M., BSc Nott.  
 Sr. Lectr.  
 Fisher, K. J., BAgSc(Hort) N.Z.  
 Asst. Lectr.

**Microbiology**

Sargent, J. D., MSc N.Z.  
 Sr. Lectr., Hd. of Dept.  
 Wenham, H. T., MS Wis., MSc N.Z.  
 Sr. Lectr.  
 Cox, G. A., MSc N.Z.  
 Lectr.

**Plant Science**

Jacques, W. A., BSc Wales  
 Sr. Lectr., Actg. Hd. of Dept.  
 Cross, M. W.  
 Sr. Lectr.  
 Robinson, G. S., MAgSc N.Z.  
 Sr. Lectr.  
 Schwass, R. H., MAgSc N.Z.  
 Sr. Lectr.  
 Eder, A. E., MAgSc N.Z.  
 Lectr.

**Poultry Husbandry**

Patchell, M. R., MAgSc N.Z.  
 Sr. Lectr.

**Sheep Husbandry**

Rae, A. L., PhD Iowa, MAgSc N.Z.  
 Prof.  
 Barton, R. A., DipAg M.A.C.  
 Sr. Lectr.  
 Small, E.  
 Sr. Lectr.  
 Ch'ang, T. S., MAgSc N.Z.  
 Lectr.  
 MacDonald, M. R., MAgSc N.Z.  
 Lectr.  
 Codrere, F. R., MA Camb., PhD N.Z.  
 Res. Officer

**Soil Science**

Pife, C. V., MSc N.Z.  
 Sr. Lectr., Hd. of Dept.  
 Jada, H., DIC, PhD Lond., MAgSc  
 DipEd N.Z.  
 Sr. Lectr.  
 Pollak, J. A., MS Minn., BAgSc N.Z.  
 Lectr.  
 Bowler, D. G., DipAg M.A.C.  
 Lectr.  
 Spedding, D. J., MSc N.Z.  
 (on leave) Asst. Lectr.

**Wool**

Meek, T. A., DipWool M.A.C.  
 Sr. Lectr., Hd. of Dept.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar (Finance) R. L. McEwen,  
 BCom N.Z. Admin. Asst. T. R. S. Bowie,  
 P. D. L. Crump, BA BCom N.Z., A. C. Watts,

JP Sheep Farm Supervisor: W. R. R. Hewitt  
 Dairy Farm Supervisor: I. P. M. McQueen,  
 BSc(Agric) Lond. Poultry Manager: J. Kissling

**GENERAL INFORMATION**

Massey Coll. (named in honour of the Rt. Hon. W. F. Massey, prime minister of New Zealand, 1912-25) was established under the New Zealand Agric. Coll. Act in 1926 as the result of an agreement between Victoria Univ. Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective schools of agric. and to establish the new coll. in the Palmerston North-Marton area. In 1927 an amending statute, the Massey Agric.

Coll. Act, was passed, and the coll. establd. with that title. Further amending and consolidating acts, the Massey Agric. Coll. Act 1952 and the Massey Coll. Act 1961, were subsequently passed.

In recent yrs. tuition in fields other than agric. (incl. food technol., stage 1 units for BSc and, in 1962, vet. sci.) has been offered.

In 1960 a branch of the Victoria Univ. of Wellington was establd. in Palmerston North on

a site 1 mile from Massey Coll. to provide tuition in selected 1st-yr subs. for the degree of BA, particularly for students of the Palmerston North Teachers' Coll., and to provide extra-mural tuition in similar subs. for the whole of New Zealand, and the Pacific Islands. Subsequently the number of subs. offered was increased, and some were developed to stage II level.

In 1962 the Massey Univ. Coll. of Manawatu Act was passed merging these 2 institutions into one univ. coll. of that name. This act, which came into force on Jan. 1, 1963, associates the coll. with the Victoria Univ. of Wellington for the purpose of granting degrees.

**CONSTITUTION.** The coll. is governed by a council consisting of the principal and 14 members elected or appointed as follows: 4 by the governor-general, 1 by council of Victoria Univ. of Wellington, 1 by Palmerston North City Council, 3 by count of convocation, 2 by professional bd., 1 by teaching staff, 1 by students' assoc. and 1 by governing bodies of post-primary schools. Up to 3 additional members may be co-opted by the council itself.

**INCOME (1961).** *Massey Coll.* Total £375,484 (farms, etc., 45% per cent., govt. grants, 44% per cent., fees, 3% per cent., endowments, 0.5 per cent., res. grants, 4.8 per cent.; *man.*, 1.9 per cent.). *Palmerston North branch of Victoria Univ. of Wellington.* Total £55,000 (govt. grants, 89 per cent., fees, 11 per cent.).

**LIBRARY.** \$1,300 vols 306 periodicals.

**FACILITIES.** *Main site* bldg contains lecture rooms, teaching and lab. labs, library, assembly hall, studies, common rooms, etc. Lecture rooms and studies for econ.; hort. and sheep husb. depts. are situated in an adjacent bldg. A vet. clinic comprising lecture room, lab., X-ray room, operating theatre and studies, houses vet. dept. Other bldgs. for wood teaching, engin. and carpentry instruction, stock demonstration, machinery demonstration. On the Hōkōwhatu site the arts bldg. contains library, lecture rooms, etc., while Cooen Bach House provides staff accomm.

**THE COLLEGE FARMS** comprise some 4100 acres, 1250 acres being situated at the coll., 1050 acres 8 miles distant and 1800 acres 60 miles distant. Full facilities are available for teaching hort.

**ADMISSION.** Overseas students desiring to be admitted of *equivalent status* to any of the degree courses at Massey Univ. Coll. of Manawatu should supply full details of the undergrad. or grad. course already taken. Subsequently, formal appln. must be made to the sec., Universities Entrance Bd., Wellington. For other than degree courses, no exam. qualif. is required, but certain pre-course practical experience is called for.

**FIRST DEGREE** (of Victoria Univ. of Wellington) BAgr, BAgr(Hort), BA—3 yrs.; BAgrSc

BAgrSc(Hort), BFoodTech—4 yrs.; BVetSc—5 yrs.

**HIGHER DEGREES** (of Victoria Univ. of Wellington) MAgSc, MAgSc(Hort), MAgSc(Dairy Tech), MFoodTech, MVetSc—normally 1 yr. following the qualifying bachelor's degree. PhD—2-3 yrs. full-time course open to candidates who have been admitted to a master's or hon. degree at 1st or 2nd class level.

**DIPLOMAS.** *Awarded by the coll.* dairy engin., dairy farming, hort., sheep farming, agric. sci. (postgrad.)—1 yr. Dairyeng. (buttermaking, cheesemaking, market milk)—3 winter terms; wool and wool-classing—2 yrs.

**CERTIFICATES.** *Awarded by Victoria Univ. of Wellington* univ. cert. of proficiency (any matriculated student may take a course in any one or more subs. of a degree course for a cert. of proficiency in that sub. or subs.) *Awarded by the coll.* poultry farming, 1 yr.

**OTHER COURSES.** Various short courses available.

**RESEARCH.** Facilities available for postgrad. study or res. in most branches of agric., hort. and food sci.

**FEES.** PhD, £63; master's degrees, £37 10s.; bachelor's degrees (agric., hort., and food technol.), £67 10s. p.a.; arts, £15-18 per sub.; sci., £25-48 per sub.; Diploma in sheep farming, dairy farming, hort., £67 10s. p.a.; wool-classing, £37 10s. p.a.; dairying, £31 10s. p.a.

**ACADEMIC YEAR.** Feb. to Oct. 2 terms of 11 wks. each, one of 7 wks.

**THE DAIRY RESEARCH INSTITUTE AND THE GRASSLANDS DIVISION AND PLANT CHEMISTRY LAB. (D.S.I.R.),** which are the centres for N.Z. for dairy and grasslands res. respectively, are located at the coll. These instns. co-operate with the coll. in the provision of material for teaching and for postgrad. res.

**STUDENT RESIDENCES.** Three men's hostels accommodating 320. One women's hostel accommodating 25. Fees, per week, £4.10s. Postal address: Massey Coll. P.O., Palmerston North.

**STUDENTS' ASSOCIATION** caters for the athletic and social side of the student's life. Excellent facilities available for cricket, tennis, swimming, athletics, hockey, shooting, football, etc.

**PUBLICATIONS.** *Calendar* (Feb.), free; *Postgrad. Courses and Facilities for Res.*, free; *Sheep Farming Annual* (12s. 6d.) and *Dairy Farming Annual* (10s.) (proceedings of annual meetings of sheep farmers and dairy farmers held at the coll.), (Oct.-Dec.). Also a series of tech. publications.

## THE YEAR 1961

(Massey College only)

NEW DEPARTMENTS Fac of vet. sci

NEW CHAIRS Vet sci

REHIREMENTS. Dr. J. H. Tetley (scol)

*Included in the figures above are:—*

Postgraduate students, 38

New admissions, 294

Students from other countries, 88 (Countries from which largest numbers came: Australia, 22, Malaya, 14; India, 10)

## Statistics

## STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . .	576	8
Women .	20	7
Total	596	15

## DEGREES AWARDED (by Univ. of N.Z.) (1961)

BAgr, 5; BAgrSc, 17, BAgrSc(Hort), 6, BAgrSc(DairyTech), 5, MAgrSc, 9; MAgrSc (Hort), 2 Total number of first degrees awarded, 33

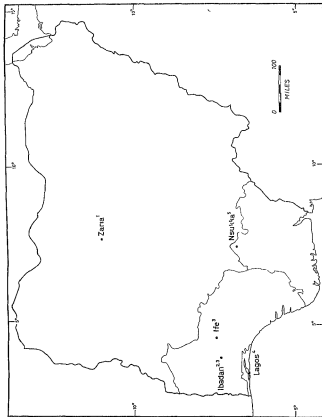
## DIPLOMAS AWARDED (1961)

DipAg, 37, DipHort, 8; DipSheepfarming, 11; DipDairy-farming, 5, DipWool, 28, DipDairy, 25

# NIGERIA

- 1 Ahmadu Bello University (p. 784)
- 2 University College, Ibadan (p. 787)
- 3 University of Ife (p. 794)
- 4 University of Lagos (p. 796)
- 5 University of Nigeria (p. 797)





*The places named in block type are the seats of the university institutions numbered overlaid*

# UNIVERSITY INSTITUTIONS IN NIGERIA

[Contributed by Sir Alexander Carr-Saunders, formerly Director of  
the London School of Economics]

The first institution of university rank to be established in Nigeria was University College, Ibadan, founded in 1948 when teaching began, and it is proposed that the college should become a university in the near future\*. When the college was founded the constitution of Nigeria was unitary, and the college was created by the central government. Under the present constitution Nigeria is a federation comprising three constituent regions, north, east and west, together with the federal territory of Lagos; higher education is on the concurrent legislative list, and it is therefore open to the federal government and the regional governments alike to create universities. The position of the single pre-existing university institution had to be defined under the constitution and it was scheduled as a federal responsibility.

The legislature of the eastern region, making use of its powers under the constitution, created the University of Nigeria in 1955; this university is situated at Nsukka, and teaching began in 1960. The Commission on Post-School Certificate and Higher Education in Nigeria (called the Ashby commission after its chairman, Sir Eric Ashby) reported in 1960 and recommended the foundation of two more universities, one in federal territory at Lagos and one in the northern region at Zaria. Following these recommendations, the university of the northern region (known as Ahmadu Bello University) was set up in 1961 by the government of that region, and the University of Lagos in 1962 by the federal government; moreover in 1961 the government of the western region founded the University of Ife. All these universities have provisional constitutions. Thus three new universities have come into existence, one federal and two regional, which open in the autumn of 1962. The transformation of University College, Ibadan, into a full university will bring the total of Nigerian universities to five.

In 1961 the federal government issued a sessional paper which contemplated a total enrolment of 10,000 students in all Nigerian universities by 1970. The paper stated that 'universities should have autonomy in the management of their affairs' and that 'the overall national interest' would be preserved by the statutory establishment of (1) the National Universities Commission, (2) the Inter-Regional Man-Power Board and (3) the All-Nigeria Academic Council. The first of these bodies will make plans for the balanced development of universities, will examine the financial

needs of the universities, will receive block grants from the federal government and will allocate such grants to the universities in accordance with need. The second body will survey periodically the nation's man-power needs and will formulate programmes for man-power development through university expansion. The third body, whose membership will be drawn from the academic staff of the universities, is 'designed to ensure the maintenance of the highest academic standards'. These proposals thus foreshadow a system under which there will be federal universities, created or taken over by the federal government and wholly financed by it, and universities created by regional governments which will be eligible for financial assistance from the federal government through the National Universities Commission. The sessional paper states that 'the total capital expenditure for the period 1961-1970 is likely to be of the order of £75 million and the total recurrent cost in 1970 of the same order'.

**CONSTITUTION** The constitutions of the University of Nigeria and University College, Ibadan, provide for a council which is the supreme governing body. In the case of the former, the council has nine members: the chancellor, the vice-chancellor, two representatives of the senate and five appointed by the governor-in-council. There is a senate composed of the vice-chancellors, the professors, the deans of faculties, the heads of colleges, the librarians, the director of extra-mural studies and three members of academic staff nominated by senate; it is 'responsible to the university council for the development and supervision of all academic matters', and no degrees or awards can be conferred without its concurrence. Provision is made for seven faculties of which six now exist; the faculties consist of colleges and departments of which 37 are contemplated and 31 now exist. The council of University College, Ibadan, has 24 members of whom seven are members of the academic staff, of the remainder six are nominated by the regions (two by each region), three by the governor-general, two by the Inter-University Council for Higher Education Overseas, one by the visitor and three co-opted, together with the chancellor and the chairman. There is a senate consisting of all the professors and certain other members of the academic staff; it is laid down that the senate 'shall manage the educational affairs of the college and act for the college in all academic matters'. There are five

\* Late 1961: the college received independent university status as the University of Ibadan under an act passed by the Federal parliament of Nigeria in December 1962.

faculties, a department of extra-mural studies, an institute of education, an institute of child health and the Nigerian Institute of Social and Economic Research. When the college becomes a university the constitution will need revision, but the revision needed is slight since, except for the lack of power to grant degrees, the college has all the attributes of a university. The provisional constitutions of the universities of northern Nigeria, Ife and Lagos include councils and senates (or academic boards), and to the latter falls full responsibility for academic matters. The constitutions of all these Nigerian university institutions resemble fairly closely those of the newer British universities; they are all autonomous, and they are also all unitary though the medical school at Lagos is a separate corporation under the university. But, while unitary in constitution, the universities of northern Nigeria, Ife and Nigeria each have centres, situated a long way from the main campus, where certain work will be carried on; the first has a centre at Kano as well as at Zaria, the second a centre at Ibadan as well as at Ife, the third a centre at Enugu as well as at Nsukka.

**PRE-UNIVERSITY EDUCATION.** The school system is organized on the English pattern of primary and secondary schools. Taking the country as a whole a large proportion of the children enter primary schools, but in some areas the percentage of pupils who complete primary education is small; in the northern region the proportion of children of school age who are at school is less than elsewhere. Secondary schools are far less well developed. The Ashby commission found that there were about 650,000 pupils in the first year of primary school but only about 12,300 in the first year of secondary school; moreover there were only 537 pupils in the whole country doing sixth form work in schools. Thus the foundation provided by the secondary schools, on which higher education rests, is slender, but so great is the enthusiasm for education that thousands of Nigerians, after preparation gained outside schools, enter each year for the General Certificate of Education or another similar certificate.

**ADMISSION:** The minimum entrance qualifications normally demanded by University College, Ibadan, are those required by the University of London; students are also admitted at concessional level, that is with five ordinary level passes at a G.C.E. examination, but in that case must spend four years over the degree course. Admission to the University of Nigeria is by way of a West African School Certificate, the G.C.E. at ordinary level with six subjects, or the G.C.E. with two advanced level and three ordinary level subjects. The degree course usually lasts four years, but those with the last entrance qualification can graduate in three years. The universities of Ife and Lagos demand a Higher School Certificate or a G.C.E. with at least two advanced level and three ordinary level subjects. Ahmadu Bello University normally requires, for direct entry to

degree courses, at least two passes at the advanced level in the G.C.E. (or Higher School Certificate equivalent) in selected subjects according to faculty requirements; as a temporary measure, two-year preliminary courses are offered in arts and science, admission being on basis of five credit passes at ordinary level. In all these universities selection is made from among qualified applicants.

**DEGREE COURSES.** University College, Ibadan, is in special relationship with the University of London. Students work for degrees of that university, the university permits extensive modification of the London syllabuses to suit local needs and conditions, but the standard of London degrees is maintained. Members of the staff of the college co-operate with London examiners in setting the papers and marking the scripts, but the final adjudication rests with the London examiners. Courses for the BA are offered leading to a general degree and to honours degrees in classics, English, geography, Greek, history, Latin and mathematics, in the faculty of science there are courses for the BSc leading to an honours (general) degree in science, and to honours degrees in botany, chemistry, geography, mathematics, physics and zoology. Degree courses are also offered in agriculture (BSc(Agric)), divinity (BD), economics (BSc(Econ)) and medicine (MB BS). The course in medicine lasts for six years, all other degree courses take three years (general degrees of BA and BSc, two years). The college offers in addition courses leading to a postgraduate certificate (1 year) and a diploma (1 year) in education, and to diplomas in child study (18 months) and librarianship (2 years). The relation with the University of London will cease as soon as the college becomes a university; it will then provide courses leading to its own degree. The University of Nigeria has stated that, while retaining the traditional subjects of study, its courses are orientated towards 'the day-to-day life of Nigeria and focus upon the social and economic needs of the nation'. The degree course normally lasts four years, and all students attend lectures in the college of general studies which are designed to provide a broad educational basis. There is no distinction between pass and honours courses; honours are awarded for good performance in any degree course. Degrees are awarded on the result of a final examination, but the performance of students in each course is assessed, and those whose performance is poor are not allowed to proceed. Among the degree courses offered, in addition to traditional subjects, are education, fine art, home economics, journalism, physical education and secretarial studies. There are also diploma courses, for example, in secretarial studies which include shorthand and typing. Ahmadu Bello University proposes in due course to offer degrees in agriculture, Arabic and Islamic studies, architecture, engineering, veterinary sciences, and also in the basic arts and sciences. In 1962-63 the University of Ife will offer general and special courses, both with hon-

vars, leading to degrees in agriculture, arts, economics, law and science. During its first session the University of Lagos will provide courses in commerce, law and medicine.

**STAFF.** At the University of Nigeria there are 148 members of the teaching staff, graded as professors, senior lecturers, lecturers and assistant lecturers, some of whom come under a special arrangement from Michigan State University. It is laid down that all vacancies must be advertised. The grading of the academic staff of University College, Ibadan, follows British practice. Vacancies are normally advertised. Salaries are kept generally in line with those obtaining in Great Britain. There is annual home leave and provision for study leave. Teaching methods resemble those in English civic universities, the time available for research is no less than that which falls to the staff of those universities. In 1962 there were 204 members of the teaching staff of the college of whom about a quarter were locally born, about a half came from the United Kingdom, the rest from Commonwealth and elsewhere. The proportion which locally born members of the staff form of the whole staff has been increasing year by year. There are 65 members of the teaching staff (apart from those at the institutes for agricultural research and administration) at Ahmadu Bello University, 44 at the University of Ife, and 30 at the University of Lagos, the grading of these academic staff also follows British practice.

**STUDENTS.** There were 1064 students at the University of Nigeria in 1961-62 distributed between faculties as follows: arts 285, science 230, social studies 339, and technology 270. Most students live in halls of residence of which there are eight; some students are non-residential. The university has an office of student affairs and operates a medical centre. All students must join the students' union. Fees are £80 for tuition, £30 for board and residence and £10 for extras. At University College, Ibadan, there were 1647 students in 1962, all of whom live in one of the five halls or in one of the two hostels, distributed by faculty as follows: agriculture 112, arts (in-

cluding divinity, economics and education) 773, engineering 138, librarianship 10, medicine 260, and science 354. Membership of the students' union is compulsory; a new building for the union was opened in 1960. There is a comprehensive medical service. Total fees for tuition, board, residence and extras vary from £127 (arts) to £426 (medicine). In the case of both institutions there are college scholarships, state scholarships and dons scholarships; there are also awards made by the federal and regional governments. It is estimated that well over 90 per cent of the students are in receipt of some form of award. For their first sessions (1962-63) Ahmadu Bello and Lagos universities expected enrolments of about 500 and 75 students respectively, fees being £150 p.a. including board and tuition.

The ACADEMIC YEAR begins in October and is divided into three terms on the British pattern.

**EXTRA-MURAL STUDIES.** At University College, Ibadan, there is a department of extra-mural studies whose activities extend throughout the federation, but it is likely that the additional universities will in due course take over the work in their areas. The department organizes weekly tutorial courses of which there are over 100 each year, residential courses and week-end schools. The schools are conducted all over the federation; the residential courses are held at the college in vacations.

**OTHER INSTITUTIONS OF HIGHER EDUCATION.** There are four technical institutes in the federation; the seasonal paper of the federal government proposes that facilities for technical education should be greatly increased. The only other type of institution for higher education is the teacher training college; there are more than 300 such colleges, mostly small in size, and of very different standards.

**FURTHER INFORMATION.** The most useful source of information relating to higher education in Nigeria is the report of the commission on post-school certificate and higher education in Nigeria published in 1960 by the Federal Ministry of Education, Lagos, under the title *Investment in Education*.

# AHMADU BELLO UNIVERSITY

Founded 1962

Postal Address: Zaria, Northern Nigeria, West Africa

Telephones: Zaria 03255-7

(London Representative, 2 Little Smith Street, S.W.1. Telephone: Abbey 7730)

VICEROY—SIR KASHEM IBRAHIM, KCMG, CBE, Governor of Northern Nigeria

CHANCELLOR— . . .

PRO-CHANCELLOR— . . .

CHAIRMAN OF COUNCIL—ALHAJI U I SULAIMAN, OBE, Emir of Bedde

VICE-CHANCELLOR—N. S. ALIVANDER, CBE, MSc N.Z., PhD Camb, Hon. DSc Malaya

REGISTRAR—M. DOWUGNA, MBE, MA Oxon, DipEd Lond.

BURSAR— . . .

LIBRARIAN—W J PLUMET, FLA

## TEACHING STAFF

<b>Agriculture</b>		Morgan, R. G., BA <i>Bent.</i> , DipEd Lond	Lectr.
Darling, H. S., BSc MAgr <i>Belf.</i> , PhD Lond.	Prof	Roberts, R. P., BA <i>Mane &amp; Lond.</i> , DipEd Lond	Lectr.
Kowal, J. M. L., MSc Wales	Sr. Res. Fellow	Kapelmaki, F. J., MgrPrav Warsaw	Lectr.
3 Lectrs.		Dada, P. O. A., BA DipEd N.Staffs.	Lectr.
		Pellon, O. M., BA <i>Manr.</i> , MA Lond	Lectr.
		Mulsome, A. A., ATC Lond	(Art) Lectr.
<b>Architecture</b>		Duxbury, H. L., (Phys. Educn.) Temp.	Lectr.
Matthews, D.	Prof	Moyes, F., (Phys. Educn.) Temp.	Lectr.
Greer-Perry, J. R.	Sr. Lectr.	Eloye, A., (Phys. Educn.) Temp.	Lectr.
Moughtin, J. C.	Lectr.	<b>Engineering, Civil</b>	
Hall, J. B.	Lectr.	Foulkes, R. A., MA Camb, MICE	Prof.
Adedapo, O.	Lectr.	Page, Major L. W. F., BA DipEd <i>Bent.</i>	(Surveying) Sr. Lectr.
Adeolu, O.	Lectr.	Adekola, A. O., BSc(Eng) PhD Lond.	Lectr.
		Chikwendu, L. N., BSc(Eng) Lond.	Lectr.
<b>Botany</b>		Nwazaku, C., DIC, BSc W's	Lectr.
Sansome, F. W., BSc PhD <i>Edw.</i> , FLS	Prof	Madu, R. M., BSc PhD <i>S'wan</i>	Lectr.
Sansome, Mrs. Eva, MSc DipEd <i>Durh.</i> , DSc <i>Mow.</i>	Reader	<b>Engineering, Electrical</b>	
Williams, Enid E. A., BA MSc PhD DipEd Wales	Sr. Lectr.	Harris, D. J., BSc(Eng) PhD Lond.	Prof.
		Chyoko, M. O., BSc PhD Lond.	Lectr.
<b>Chemistry</b>		Cookin, J. A., BSc PhD <i>Nott.</i>	Lectr.
Matheson, A. R., MSc <i>Durh.</i> , PhD <i>Nott.</i> , PRIC	Prof.	Bracey, M. F., BSc PhD <i>Sheff.</i>	Lectr.
Sankhala, R. H., BSc <i>Ban.</i> , PhD <i>Ban &amp; Lond.</i>	Sr. Lectr.	Jones, C. L., BSc <i>Bent.</i>	Lectr.
		<b>Engineering, Mechanical</b>	
		Bernst, E. P., MEng <i>Lancs.</i>	Prof.
		Miller, K. J., BSc Lond	Sr. Lectr.
		Ezekwe, G. O., BSc Wales, PhD Lond.	Lectr.
		Ezeilo, C. C. O., BSc PhD <i>Lond.</i>	Lectr.
		Applebyrd, J., BEng	Lectr.
<b>Education</b>			
Watts, I. H., MA Oxon			

<b>English</b>		Abubakar, I., BSc Lond, PhD Camb	Lectr
Dunn, T. A., MA PhD Edin	Prof.	Bashir, Y U., BSc Lond	Lectr
Beale, J. M., MA Glas., PhD Edin	Sr. Lectr	<b>Physics</b>	
Harrison, T. W., BA Leeds	Lectr.	Skinner, N. J., BSc Nott, PhD Lond	Prof
<b>Fine Art</b>		Hutton, V. Rosemary S. MA St And.	Sr. Lectr.
....		Van der Vegt, A., PhysDra Aust	Lectr.
Taylor, E.	Prof	<b>Zoology</b>	
Atkins, A. P.	Sr. Lectr	Mead, A. P., BSc PhD Brst.	Prof
Betts, M.	Lectr.	Pry, C. H., BA Camb	Sr. Lectr.
Leary, A. H.	Lectr.	Sikes, Sylvia K., MA Camb	Lectr
Hope, D. B.	Lectr.	<b>INSTITUTE FOR AGRICULTURAL RESEARCH</b>	
Ashton, P.	Lectr.	Darling, H. S., BSc MAgr Belf., PhD Lond	Dur
Burke, V. I.	Lectr.	The present staff of the res sta., consisting of 1 Principal Res. Officer, 16 Sr. Specialist Officers, 17 Specialist Officers, 9 Specialist Supts. and 11 other officers, will be transferred to the univ at grades and titles to be determined	
Halliday, T.	Lectr.	<b>INSTITUTE OF ADMINISTRATION</b>	
Taylor, M. K.	Lectr.	The present staff, consisting of a Principal and some 80 Sr. Lectrs., Lectrs. and pt-time teachers, will be transferred to the univ at grades and titles to be determined. This staff includes some lectrs in law	
<b>Geography</b>		<b>INSTITUTE OF ADMINISTRATION</b>	
Thorp, M. B., MA Liv	Prof	The present staff, consisting of a Principal and some 80 Sr. Lectrs., Lectrs. and pt-time teachers, will be transferred to the univ at grades and titles to be determined. This staff includes some lectrs in law	
Mortimore, M. J., BA Leeds	Lectr.	<b>INSTITUTE OF ADMINISTRATION</b>	
<b>History</b>		The present staff, consisting of a Principal and some 80 Sr. Lectrs., Lectrs. and pt-time teachers, will be transferred to the univ at grades and titles to be determined. This staff includes some lectrs in law	
Sanderson, G. N., MA Oxon., PhD Lond.	Prof.	<b>INSTITUTE OF ADMINISTRATION</b>	
Smith, H. F. C., BA Camb	Reader	The present staff, consisting of a Principal and some 80 Sr. Lectrs., Lectrs. and pt-time teachers, will be transferred to the univ at grades and titles to be determined. This staff includes some lectrs in law	
....	Lectr	<b>INSTITUTE OF ADMINISTRATION</b>	
<b>Mathematics</b>		The present staff, consisting of a Principal and some 80 Sr. Lectrs., Lectrs. and pt-time teachers, will be transferred to the univ at grades and titles to be determined. This staff includes some lectrs in law	
Hofmeier, D. J., PhysEng Delft,	Prof	<b>INSTITUTE OF ADMINISTRATION</b>	
DSa Bawling	Sr. Lectr	The present staff, consisting of a Principal and some 80 Sr. Lectrs., Lectrs. and pt-time teachers, will be transferred to the univ at grades and titles to be determined. This staff includes some lectrs in law	
Mokona, J. A., MA PhD S.A.	Sr. Lectr	<b>INSTITUTE OF ADMINISTRATION</b>	

## ADMINISTRATIVE AND OTHER STAFF

Dep. Librarian : . . . . Library Cataloguer : Officer : Mrs. Mary A. Dada, Hostel Wardens :  
 Mrs. Jean M. Cooper, BA Lond. Asst. Librarian : men—A. Dewu Mallam, women—Mrs. Dimka.  
 D. H. B. Perera Accountant : F. S. Ouyibobu, London Representative : Mrs. Betty Horner.  
 CA. Med. Officer : Dr. B. Voulooh. Catering

## GENERAL INFORMATION

The Commission on Post-School Cert. and Higher Educn. in Nigeria (Aiyby commission) recommended in 1960 the establishment of a univ. in northern Nigeria, but added that a further commission should advise on its scope and activities. Accordingly a commission of the Inter-University Council (Cair-Saunders commission) reported in April 1961. A provisional council of the Univ of Northern Nigeria was established in April 1961, and a law establishing the Ahmadu Bello Univ and defining its constitution was passed in June 1962. The univ. will open in Oct 1962 with about 500 students.

The univ. will have its main centre at Zaria (capital of Zaria province; a walled city founded in the 16th century; located 200 miles S of the nearest airport at Kano; pop 30,000, 2000 feet above sea level). The univ. will absorb the following instns. —

(a) The Zaria branch of the *Nigerian Coll of Arts, Sci. and Technol* (which is being disbanded).

The existing fac. of engn (which is the fac of engn. of Univ Coll. Ibadan, and in 40 min. with the Univ. of London) and the depts. of archit. and of fine art, which are at present conducting courses of degree standard, will be transferred to the univ. On this site (750 acres, 7 miles N.W. of Zaria), which has residential accomm. for 500 men and 30 women students and housing for 125 ar staff, will be developed the facs. of arts and sci and probably agric.

(b) The *Inst. of Administration*, in Zaria township (100 acres; residential accomm. for 240 students and 24 staff, classroom accomm. for 480). This has at present a large programme of in-service tg. courses, residential and extramural, in pub admin. for govt. and local govt. employees, and also gives introductory courses for Bar exams. The present courses will be continued, a dipl. course in pub. admin. introduced and the fac. of law initially located here.

(c) The *Res. and Special Services Station of the*

*Ministry of Agric* (northern Nigeria), at Samaru (adjoining the Nigerian Coll. site), with an out-stn. at Shika (4 miles from Samaru), and other out-stns. There is a res. staff of 50 with appropriate lab., office and residential accomm. The total area (incl. exper. farm) is 2500 acres at Samaru and 800 at Shika. This stn. will carry out both basic and appl. res., and will work in close co-operation with the ministry of agric. in field trials and extension work.

(d) *The School for Arabic Studies* in Kano. This, at first named Ahmadu Bello Coll. and now re-named Abdullahi Bayero Coll., will be transferred to a new site of about 200 acres, and when bldgs. are erected will house the fac. of Arabic and Islamic studies, and probably the fac. of laws. The only bldgs. on this site at present are 20 houses, but student hostels for 400 and academic bldgs. are being planned.

**CONSTITUTION** The supreme governing body is the council, responsible for gen. policy and finance. It includes lay members, members of senate and of congregation, and has extensive powers of co-optation, which can extend to overseas members. The senate includes all profs. and readers, the dir. of insts., the librarian, and rep. of congregation, and is responsible for all academic matters. For each fac. there is a fac. bd. responsible for details of syllabuses and exams. There is a congregation of all grad. members of staff. The univ. is required by law to appoint external examiners 'of high academic standing' for all degree exams.

The Inst. of Admin. and the Inst. for Agric. Res. (as the res. inst. will become) will be semi-autonomous insts. within the univ., under the control of the council but not directly under the senate. The dir. in each case will have an advisory bd. which has govt. as well as univ. reps., in recognition of the fact that the insts. have the duty of providing certain direct services to govt.

**INCOME.** Details not yet available. Annual recurrent expenditure of the instns. to be absorbed totalled £850,000 in 1961-62.

**FACULTIES** Initially, facs. of agric. & vet. sci., Arabic & Islamic studies, archit., arts, engin., laws, sci.

**LIBRARY** At present, 35,000 vols. at Nigerian Coll., 20,000 at Inst. of Admin., 5000 at Inst. for Agric. Res., and 5000 at Sch. for Arabic Studies.

**LABORATORIES, ETC.** Inst. for Agric. Res. (see p. 785) Fac. of engin., well-equipped teaching labn. and small high-voltage lab. Magnetic observatory. Meteorological stn.

**ADMISSION REQUIREMENTS.** For direct entry to degree courses, at least 2 passes at advanced level of G.C.E. (or Higher Sch. Cert. equivalent) in selected subjects according to fac. requirements, except in archit. and in fine art, where admission is by selection on basis of aptitude tests from candidates with at least 5 credit passes at ordinary level or equivalent.

As a temp. measure 2-yr. prelim. courses are offered in arts and sci., admission being by selection from candidates with 5 credit passes at O level.

**FIRST DEGREES.** Detailed structure not yet fixed. Proposals are for broadly based degrees, with hon. in arts and sci. A 3-subj. degree may include a profess. subj. (educn. or pub. admin.). Specialization will be possible in a 4th yr., possibly leading to MA or MSc. Other degrees: BSc(Eng), 3 yrs., BA(Sci), 5 yrs., degree in fine art, 4 yrs.; BSc(Agric), 3 yrs.; degree in vet. sci., 5 yrs.; LLB, 3 yrs.

**DIPLOMAS.** Pub. admin., 2 yrs.

**CERTIFICATES.** Educn., 1 yr. postgrad.; art teachers, 1 yr.

**HIGHER DEGREES** will be introduced in due course.

**FEES.** £150 p a., incl. bd. and residence.

**ACADEMIC YEAR.** Oct. to June: 3 terms.

**STAFF RESIDENCES.** All members of st. staff are provided with pt.-furnished houses at reduced rent.

**STUDENT HEALTH SERVICE** is being inaugurated, and free med. attention is provided to staff and families. There will be a resident med. officer.

**STUDENT UNION** in gen. charge of student affairs.

**STUDENT NUMBERS** expected for opening session (1962-63) are, by fac.: engin., 175; archit., 100; fine art, 70 (these incl. all yrs. in existing courses being taken over); arts, 70; sci., 40; agric., 10; vet. sci., 10; law, 15; pub. admin., 30. In trg. courses (Inst. of Admin.), 750 residential and 3000 extra-mural in courses of varying lengths.

# UNIVERSITY COLLEGE, IBADAN\* §

Founded 1948

Postal Address: Ibadan, Nigeria, West Africa

Cables and Telegrams: University, Ibadan

Telephones: Ibadan 22841 (5 lines)

(London Representative, 40 Gordon Square, W.C.1. Telephone: Euston 8948)

VICEROY—H E The Rt Hon. N AZIKIWE, MA MSc LL.D DLitt, Governor-General of the Federation of Nigeria

CHAIRMAN OF COUNCIL—O. IKEMANGI, BSc New B., MSc Chic., ScD Mich., MD Tor., Hon. ScD Lincoln(Pa)

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VIC-PRINCIPAL—C. W. L. BEVAN, BSc Wales, PhD Lond., FRIC

REGISTRAR—N. K. ADAMOLEGUN, BA Lond.

BURSAR—G. J. B. ALLPORT, MA Camb., FCA

LIBRARIAN—W. J. HARRIS, BA Oxon.

## TEACHING STAFF

<b>African Studies, Institute of</b>		Upton, M., BSc(Agric) R'dg., DipFarmMan Leeds	Lectr.
Deke, K. O., BA Durh., MA Abad., PhD Lond., Hon. LL.D Abad. & Northwestern		<b>Agriculture</b>	
.. (Archaeol) Prof	Dir		Prof
.. (Linguistics) Prof		Hill, D. H., DVM Tor	
.. (Social) Prof		(Animal Husb. & Health) Assoc. Prof	
Crowder, M., MA Oxon.	Sec.	Medeke, A. N. A., MAggSc PhD N U I	
<b>Agricultural Biology</b>		(Animal Husb.) Sr. Lectr	
.. Prof		Lewis, R. T., BSc(Agric) Wales, MSc Durh	
Caswell, G. H., BSc Lond.		(Agric. Mechanization) Lectr	Lectr.
(Agric. Entomol.) Sr. Lectr			
Hopkins, B., BSc Manc., PhD Lond		<b>Arabic and Islamic Studies</b>	
(Agric. Bot.) Lectr			Prof.
Smith, R. N., BSc PhD Natl		Martin, B. G., MA Harv. & Prin	
(Plant Pathol.) Lectr		PhD Prin	Sr. Lectr.
Chheda, H. R., MSc Gujar., MTech		Hummerick, J. O., BA Lond	Lectr.
Khanagiri, PhD Oklahoma State		El Masri, F. M., BA Lond	Temp Lectr
(Plant Breeding) Lectr.			
<b>Agricultural Chemistry and Soils</b>		<b>Biology</b>	
Mellroy, R. J., MSc N.Z., PhD Biru		Elgodo, J. H., MA Camb.	Assoc Prof
FRIC	Prof	<b>Botany</b>	
Vine, H., AICTA, BSc PhD Lond		..	Prof.
(Soils Sci.) Sr. Lectr.		Cerbie, M. J., BA PhD Camb	Sr. Lectr
.. Sr. Lectr.		Puri, G. S., MSc Punjab (L.), PhD Luck.	& Sr. Lectr.
.. Lectr.		Lond.	Sr. Lectr.
<b>Agricultural Organization</b>		..	Sr. Lectr.
.. Prof.		Jackson, G., BSc Staff., DipAgricSc Camb	Lectr.
Olowuani, H. A., BA Moreshouse, MA		Lawton, J. R. S., BSc Lond	Lectr.
PhD Harv.	Sr. Lectr		

\* Associate Member of the Association of Universities of the British Commonwealth  
 § Life note: the coll. received independent univ. status as the Univ. of Ibadan under an act passed by the fed. parliament of Nigeria in Dec. 1962.



Amobi, C. C., BSc Lond., DipEd R'dg  
 Alasandura, S. O., BSc PhD Lond.

Lectr.  
 Lectr.

Pretty, Mrs. Margaret M., MA Lond.

Temp Lectr.  
 Sowande, O., MBE, BMus Lond., FRCO  
 (Musical) Sp. Res. Fellow

### Chemistry

Bevan, C. W. L., BSc Wales, PhD Lond.,  
 FRIC

Prof.  
 Prof.

Hirst, J., BSc PhD Lond.

Prof.

Ivimey, D. H., BSc Leeds, PhD Camb

Sr Lectr.

Taylor, D. A. H., MA DPhil Oxon.

Sr Lectr.

Goddard, D. R., BSc PhD Lond.

Sr Lectr.

Rees, A. H., MA Camb., PhD Lond.

Sr Lectr.

Akssanya, A., BSc Lond.

Sr Lectr.

de Sousa, J. B., MSc H.K., PhD Syd

Sr Lectr.

Foley, A. J., BA, BSc N.U.I.

Lectr.

Una, S. J., BSc Dub.

Lectr.

Emovon, E. U., BSc PhD Lond.

Lectr.

Beetlestone, J. G., BSc PhD Brist.

Lectr.

Powell, J. W., MA DPhil Oxon.

Lectr.

Redhead, Joyce B., BSc Sheff., PhD Edw.

Lectr.

Ogan, A. U., BSc PhD Lond.

Lectr.

Petel, M. B., BSc Gijon., BPharm Lond.,

Assoc. Res. Fellow

PLS

### Classics

Ferguson, J., MA Camb., BD Lond.

Prof.

White, K. D., MA Camb.

Prof.

(Anc. Hist.) Assoc. Prof.

Gusto, H. F., MA Lond.

Sr Lectr.

Pathmanathan, R. S., BA Ceyl., MA Oxon.

Lectr.

Kemp, J. A., MA Camb.

Lectr.

Thompson, L. A., MA Camb.

Lectr.

Conadine, P., BA Lond. & Oxon.

Lectr.

Bean, S. O., MA Lond.

(on leave) Lectr.

Okepanku, A. A., BA Lond. Temp. Asst. Lectr.

### Economics and Social Studies

Barback, R. H., BSc(Econ) Lond.,

BLitt Oxon.

Prof.

Wrigley, C. C., MA Oxon.

Prof.

(Econ. Hist.) Sr. Lectr.

Brown, C. V., BA Haverford

Sr Lectr.

Onatani, H. M. A., BSc(Econ) Lond.,

Lectr.

MA Yale

Lectr.

Aboyade, O., BSc(Econ) Hull, PhD Camb.

Lectr.

...

Lectr.

...

Asst. Lectr.

### Education, Institute of

Taylor, A., MA DipEd N.Z.

Prof., Dir.

Brown, G. N., MA DPhil Oxon.

Assoc. Prof.

Miller, D. C., BA DipEd Lond.,

Sr Lectr.

MEd Hull

Sr Lectr.

Stone, R. H., BSc Belf., DipEd Lond.

Lectr.

Espie, I., MA Glas.

(on leave) Lectr.

King, A. V., BMus Lond.

Lectr.

Majumdar, J. A., BA Manc., DipEd Lond.

Lectr.

Uka, N., BA Lucan, MA Claremont,

Lectr.

PhD S. Calif.

Lectr.

Yokoye, E. A., BSc DipEd Lond.

Temp Lectr.

### English

Mahood, Molly M., MA Lond. & Oxon.

Sr. Lectr.

Axworthy, G. J., MA Oxon.

Sr Lectr., Dir. of Drama

Rambaran, J. A., MA Lond.

Sr Lectr.

Banham, M. J., MA Lond.

(on leave) Lectr.

Stevenson, W. H., MA Edin., BLitt Oxon.

Lectr.

Ginger, J. W., BA Oxon., DipEd

Lectr.

Peterson, W. M., MA Bronx, BLitt Oxon.

Temp Lectr.

### French, see Mod. Langs.

### Geography

Barboui, K. M., MA BLitt Oxon.

Prof.

Hodder, B. W., MA BLitt Oxon.

Sr Lectr.

Thomas, M. F., MA R'dg.

Lectr.

Mabogunje, A. L., MA PhD Lond.

Lectr.

Ledger, D. C., MA Camb.

Lectr.

...

Asst. Lectr.

### Geology

Warrall, G. A., BA MSc PhD Lond.

Prof.

Oyawoye, M. O., BSc Wash. State,

Sr Lectr.

PhD Durb.

Lectr.

Giant, N. K., BSc PhD Edin.

Lectr.

...

Lectr.

...

Asst. Lectr.

### German, see Mod. Langs.

### Government

Wraith, R. E., CRE, BCom Birm.

Prof.

(Pub. Admin.) Sr. Lectr.

O'Connell, J., MA N.U.I., PhD Lonsan.

Sr Lectr.

Mackintosh, J. P., BA Oxon.,

Sr Lectr.

MA Edin. & Phil.

Sr Lectr.

Post, K. W. J., MA Camb.

Lectr.

Dudley, B. J., BSc Lond., MA Linc.

Lectr.

### History

Anene, J. C., MA PhD DipEd Lond.

Prof.

Mount, R. C., MA Oxon.

Assoc. Prof.

Ajayi, J. F. A., BA PhD Lond.

Sr. Lectr.

Ryder, A. F. C., MA DPhil Oxon.

Sr Lectr.

...

Sr Lectr.

...

Sr Lectr.

Omer-Cooper, J. D., MA Camb. & Rhodes

Lectr.

Hemesia, C. C., BA PhD Lond.

Lectr.

Aderibigbe, A. A. B., BA PhD Lond.

Lectr.

Gavin, R. J., MA PhD Camb.

Lectr.

Awe, Mrs. Bolanle, MA *St And*  
Davis, A. J., PhD

Lectr  
Lectr

Islamic Studies, see Arabic and Islamic  
Studies

Linguistics and Nigerian Languages

Prof.  
Sr. Lectr  
Hoffmann, C., *DisPhil Hawking*  
Dunstan, M., *Elizabeth, MA Edin.*  
Lectr.  
Annan, B., *MA Edin.*  
Lectr.  
Assst. Lectr  
Armstrong, R., AB *Miami, MA Oklahoma,*  
PhD *Chic.* Hon. Visiting Prof

Mathematics

Cofford, Kathleen, MA *Oxon*, MSc *Leid*,  
PhD *Edin.* Prof  
Oluibunmi, A., MA PhD *Durb* Assoc. Prof.  
Baele, J. O. C., MSc *Leid*, PhD *Cam*  
Sr. Lectr  
Hodnett, G. E., BSc *Leid*, DipEd  
(Stats.) Sr. Lectr  
Oyelow, J. O., BSc *Bum*  
Lectr  
Leslie, J. A., BA *Chic*, PhD *Paris*  
Lectr  
Okonjo, C., BSc *Leid*, MSc *Bologna*  
(Stats.) Lectr  
Leslie, Mrs. Margaret P., BSc *Chic*,  
MS *N Carolina* Lectr  
Fagbemi, O. J., BSc *Nott*, PhD *Cam*  
Lectr  
Lectr  
Pretty, J. E., MA *Cam* Temp. Lectr.

Medicine, see below

Modern Languages

Evans, H. G. J., BA PhD *Leid*. (French) Prof.  
Sr. Lectr.  
Barron, Mrs. Elizabeth, BA *Leid*  
Lectr.  
Weckelmann, D., MA *Paris*  
Lectr\*  
Feuser, W., MA *DisPhil Freib.* Lectr\*

Nigerian Languages, see Linguistics and  
Nigerian Languages

Physics

Class. J. A., BSc PhD *Manc*, FIP Prof.  
Lyons, A. J., MA PhD *Edin.* Prof.  
Onwuekechili, C. A., BSc PhD *Leid*,  
Sr. Lectr  
Sr. Lectr  
Agu, B. N. C., BSc *Leid*, PhD *Leid*  
Lectr  
Este, A. I. I., BSc *Leid*  
Lectr.  
Kent, G. S., BA PhD *Cam*  
Lectr.  
Awe, O., BSc *Leid*, PhD *Cam*  
Lectr.  
Morris, R. W., MA PhD *Cam*  
Lectr.  
Sheret, M. A., MSc *Edin.*  
Lectr.  
Lectr.

\*=Attached staff

Religious Studies

Gundry, D. W., MTh BD *Leid*, FRAI Prof  
Gardner, J. A., MA *Edin & Camb.*,  
BD *Edin* Sr. Lectr  
Idowu, E. B., BD PhD *Leid*. Sr. Lectr  
Berrington-Ward, S., MA *Cam* Lectr  
Smith, J. G., MA *Oxon*, BD *Leid* Lectr.

Social Studies, see Econ and Soc. Studies

Sociology

Lloyd, P. C., MA DPhil *Oxon* Se Lectr.  
Apthorpe, R. J., BA *Durb*, DPhil *Oxon* Lectr  
Lectr

Zoology

Behring, N., DSc *Copenhagen* Prof  
Eligood, J. H., MA *Cam*. Assoc. Prof  
Parker, A. H., MSc *Bum*, PhD *Glar* Sr. Lectr  
Hall, Margaret B., BSc PhD *Leid* Lectr  
Olanuoyan, C. I. O., BSc PhD *Leid* Lectr  
Eze, J. C., BSc PhD *Leid*. Lectr.  
Barker, J. F., BSc PhD *Sheff* Lectr  
Muller, R. L. J., BSc PhD *Leid*. Lectr.  
Mead, A. P., BSc *Bum*, PhD *Durb* Lectr  
Mudge, D. B., BSc *Sheff*, PhD *Leid* Lectr

MEDICINE

Anaesthetics

Waters, D. J., BM BCh MA *Oxon*,  
FFARCS Se Lectr  
Good, R. Y., MB BCh *Rand* Sr. Lectr  
Doctor, N. H., MB BS *Bom*, FFA Lectr  
Nweschuku, P. O., MB BS *Leid*, FFA Lectr

Anatomy

Harper, W. F., MD BSc PhD *SLand*. Temp. Prof.  
Grillo, T. A. I., BA PhD *Cam* Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.

Bacteriology

Wilson, A. M. M., BA BM BCh *Oxon*. Prof.  
Casper, S. G., TD, DSc *R'dg*, PhD *Leid*,  
DTM&H *Leid*. (Parasitol.) Assoc. Prof.  
Montefiore, D. G., MA MD *Cam*,  
DipBact *Leid*. Sr. Lectr.  
Clark, Betty M., MB BS DCP *Leid* Lectr.  
Lectr.

Biochemistry

Besser, O., BSc *Leid*, PhD *Leid*, FRIC Prof.  
Sr. Lectr.  
Lectr.  
Mobbs, D. R. A., BSc *Leid* Assst. Lectr.

NIGERIA

<b>Chemical Pathology</b>					Sr Lectr
Edozien, J. C., BSc Lond., MSc MD N.U.I., MRCPEd	Prof.	Patent, J. R., BPharm PhD Lond			Sr Lectr
	Si Lectr				Lectr
Elliott, B. A., MB BCH BAO N U I	Temp Lectr				Lectr
					Asst. Lectr
<b>Child Health, see below</b>		<b>Preventive and Social Medicine</b>			
<b>Medicine</b>					Prof
Brown, A., CBE, MB ChB Edin., FRCPEd	Prof.	Van der Wall, H. M., LMS Ceyl., DPH Lond., TDD Madr			Sr. Lectr
Ogunlesi, T. O., MRCP	Assoc. Prof.	Owen, J. S., MB ChB DPH Burm., DiphEd Lond			Sr Lectr
Kinnara, T. W. G., MBE, MB ChB Edin., FRCPEd	Assoc. Prof.	Lucas, A. O., BSc MB BS Durk., DPH Belf., MRCP			Lectr.
Low, M. D. W., MB ChB Edin., DTM&H Lond., MRCPEd	Sr. Lectr	<b>Radiology</b>			
Monokosso, G. L., MD Lond., MRCPEd	Sr. Lectr.	Cockshott, W. P., MD ChB DMRD Edin.			Assoc. Prof
Ball, P. A. J., MA MD Camb., MRCP (on secondment)	Si. Lectr				Sr Lectr.
Shrank, A. B., MA BM BCH Oxon., MRCP	(Dermatol.) Temp Lectr	Evans, K. T., MB ChB Birm., MRCP, FFR			Temp Lectr
<b>Obstetrics and Gynaecology</b>		<b>Surgery</b>			
Lawson, J. B., MA MB BCHu Camb., FRCOG	Prof	Davey, W. W., MD Belf., FRCSEd, FRCS			Prof
Lester, Una G., MB BS Lond., FRCOG	Sr. Lectr.	Mattinson, F. D., MB ChB Edin., FRCS, FRCSEd			Assoc. Prof
Hendrickse, J. P. de V., MB ChB Cape T	Sr Lectr	Kodlinsky, H. C., MB BS Glas., DO Oxon. (Ophthalmol.)			Assoc. Prof.
Bennettman, R. H. O., MB BS Lond	Sr Lectr.				Sr Lectr
Ojo, O. A., MA MB BS MAO Dub	Lectr	Tempest, M. C., ChM Lond., FRCSEd			Sr Lectr
<b>Pædiatrics</b>					(Orthop.) Si Lectr.
Hendrickse, R. G., MD ChB Cape T.	Prof	Nga, V. A., MB BS Lond., FRCS, FRCSEd			Lectr
Temple, A. B., MD Lond., MRCP	Sr Lectr.	Jaja, M. O. A., MB BS Lond., FRCS			(Orthop.) Lectr.
...	Sr Lectr	<b>EXTRA-MURAL STUDIES</b>			
...	Sr. Lectr	Ogunshye, A., BSc(Econ) Lond. (on leave) Du			Dep Du
...	Lectr	Brown, Lelange J., MA Oxon			Asst. Dir.
<b>Pathology, see also Chem Pathol</b>		Bates, H. U., BA Lond			Si Tutor
Edington, G. M., MBE, MD Glas., DTM&H Lond., MRCP	Prof.	Allanah, S. S., BCom Birm			Tutor
...	Sr Lectr.	Awe, E. O., BA(Econ) Lancaster(Pa.), MA PhD N Y			Tutor
Janota, I., MB BS Lond.	Si Lectr.	Taghivale, E. A., BA Virginia, MA Harv			Tutor
Allan, N. C., MB ChB Edin., MRCPEd (Haematol.)	Lectr.	Dayton, A. D., BA Lond			Tutor
Mainwaring, A. R., MB BS Lond. (Morbid Anat.)	Lectr.	Sonuba, O., MA Glas (Indust Reins.)			Tutor
<b>Pharmacology</b>		...			Tutor
...	Prof	...			Tutor
James, Denah M., MPharm PhD Wales	Assoc. Prof	...			Asst. Tutor
Onuagulu, G. O., BSc Lond., PhD Glas, MRCPEd, FRPSCGlas	Sr. Lectr.	...			Asst Tutor
...	Lectr.	<b>INSTITUTE OF CHILD HEALTH</b>			
<b>Physiology</b>		Collis, W. R. F., MA MD Camb., FRCP, FRCPI			Dir., Hon. Si Res. Fellow
Grayson, J., MSc MD Manc	Prof	Derna, I. S., BSc PhD Lond			(Agric. Nutrition) Res. Fellow
Fernand, V. S. van V., PhD Lond., LMS Ceyl.	(Histol.) Sr Lectr.				

Leah, F. E. A. Med. Res. Fellow  
 Jones, Margaret D., MB BS Lond. Res. Fellow  
 Rees, J. N., MB BCh Camb. (Pzd) Res. Fellow

Buspham, W. M. L., MA Camb. Sc. Rev. Fellow  
 Ardener, E. W., BA Lond. Sc. Res. Fellow  
 Schatz, S. P., BS Penn., MA PhD NY U. Sc. Res. Fellow

#### NIGERIAN INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

Barback, R. H., BSc(Econ) Lond., Blat Oau. Dir.

Adu, S. A., BSc Wales, MSc(Econ) Lond. Res. Fellow  
 Boston, J. S., MA BLitt Oxon. Res. Fellow  
 Olatun, O., BA Duab. Res. Fellow  
 . . . Res. Asst.

#### ADMINISTRATIVE AND OTHER STAFF

Dep. Registrars: H. J. Belmont, BA Lond.  
 Acad. Sec.: A. E. Oadubanya, BA Lond.  
 Asst. Registrars: I. Ogbue, BA(Econ) Durh.;  
 L. A. Ilegbodu (Actg.), Admin. Officers: O.  
 Foteda, BSc(Econ) Lond., E. O. Isakanni, BA  
 Lond., S. J. Okodu, BA Lond. Sec. Inst. of  
 Educn., B. O. Akwukwama, BA Durh. Sec.  
 Inst. of Child Health, S. A. Oduumye, BA Lond.  
 Sec., Nigerian Inst. of Soc. and Econ. Res. W.  
 Musil Kong, Chief Accountant, E. Preston  
 Sr. Accountant, N. C. R. Bourne, BCom Lond.  
 Accountant, J. C. A. Lamikanre, Estate Man-  
 ager, L. T. Chubb, Estate Officer: B. Adeyinka  
 Chief Engineer: A. Williams, BSc Burn. Main-  
 tenance Officer: O. O. Apsampa, Electr.  
 Engineer, I. Ighehon, BEng Staff. Motor  
 Transport Officer: Clerk of Works  
 S. Pearson, Catering Officer: S. T. Soninke  
 Cafeteria Manager, Independence Hall: V. O.  
 Sabunde, Dep. Librarian, J. Packman, BA  
 Lond., DipLib, FLA. Sr. Sub-Librarians:  
 Elizabeth H. Peckler, MA Vunderbilt, BA in LS  
 Ewery, MSLS Cal., B. O. Hood, BA NZ.

DipLib Sub-Librarians: Margaret E. Thompson,  
 BSc Lond., C. C. Momah, BA Lond., K.  
 Mahmud, MA Brand, BLS McG., Aileen  
 Kupus, BA Radcliffe Asst. Librarians: Mrs.  
 Tinuade O. Odeinde, BSc Hull, Mrs. F. Adetoro-  
 wun Ogunsheye, MA Camb., J. O. Depolu,  
 BA Lond.; Mrs. Ngai Ene, BA Lond., S. A.  
 Orlomolaye, BA Lond. Printing Manager: E.  
 Gresty, MEd Officer: K. H. Gillson, MB ChB  
 Edin., FRCS Ed.; Jean C. Taylor, MB ChB  
 Edin., S. O. Ademle, MB BS.

WARDENS OF HALLS OF RESIDENCE: Mellanby  
 Hall: C. C. Ifemesir, BA PhD Lond.; Tedder  
 Hall: C. C. Ameh, BSc Lond., DipLib Rdy.,  
 Kuti Hall: E. U. Enayon, BSc PhD Lond.,  
 Sultan Bello Hall: J. C. Ene, BSc PhD Lond.,  
 Q. Elizabeth Hall (Women): M. Elizabeth  
 Dunstan, MA Edin., Independence Hall:  
 E. C. O. Ifeolu, MA Cal., Chm. Students'  
 Hostel: . . .

LONDON OFFICE London Representative:  
 Marjorie G. Chappell, BA Lond.

#### GENERAL INFORMATION

The coll. was opened in 1948 with a provisional scheme of govt. In 1954 assent was given by the governor on behalf of H.M. the Queen to an ordinance enacted by the legislature of Nigeria, the purpose of which was to reconstitute the coll. on a more permanent basis as a coll. in special relation with Univ. of Lond.\* for whose degrees the coll. presents its students. New legislation is now before the govt., the purpose of which is to establish the coll. as an autonomous univ. offering its own degrees.

**CONSTITUTION.** The coll. council is the supreme governing body and is charged with control of finance. The senate is an academic body which, generally, manages, and where necessary advises the council upon, the educn. affairs of the coll. In respect of each fac. there is a fac. bd. which deals with courses of study and exams and matters of detail concerning the work of the fac. Fac. bds. are required also to deal with matters referred to them by the senate. The coll. is open to all classes and communities 'without any distinction whatsoever'.

**INCOME.** A grant was made under the colonial devel. and welfare act towards the cost of the permanent bldgs. Total of fed. govt. of Nigeria endowment at yr. ending June 3, 1961, was £1,046,000. Nigerian Cocoa Marketing Bd. endowment, £1,175,000, misc., £59,240, interest (1960-61) on endowments, £120,725; on gen. investments, £14,352, student fees, £300,015, rents, etc., £26,511, res. grants, £4591; univ. bookshops, £2599. Fed. govt. subventions (1960-61), £974,980.

**FACULTIES AND DEANS (1962-63).** Agr., Prof. R. J. Mellroy (agrie. chem. & soil), etc., Prof. Kathleen Collard (maths.), econ. & soc. studies, Prof. R. H. Barback (econ.); med., Prof. J. C. Edeson (chem. pathol.), etc., Prof. J. Grayson (physiol.).

**LIBRARY.** 155,000 vols., 2600 current serial publications. Sp. collections incl. W. African hist. and ethiol. (incl. 150 Arabic MSS.), trop. agric. and trop. med. The lib. is the legal depository for all Nigerian publications.

\* For a note on these 'special relationship' arrangements, see p. 287.

† See footnote to p. 287.

**LABORATORIES, FIELD STATIONS, ETC.** The fac. of agric. has its teaching, res. and admin. bldgs. and its own farm on the coll site. On the farm, grassland res., crop and animal prodn. are actively proceeding and small heads of Zebu and Ndama cattle, as well as poultry, swine, sheep and goats, are maintained. A considerable area is under mechanized cultivation. As part of res. into moisture conditions in Nigeria, measurements of evapo-transpiration at 10 installations, covering the Niger delta to the N. frontier, are being made.

**BOTANICAL GARDENS** planned to expand to 80 acres. Mainly indigenous species grown. *Index rerum* published annually.

**UNIVERSITY COLLEGE HOSPITAL** Recog. for clin. teaching for MB BS of the Univ. of London under special relation with the univ. \*

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). Founded 1956, exists to promote res. into W. African educn., to assist its colls. assoc. with the inst. in solving problems with which they may be confronted, and to train teachers. 3 courses are offered, leading to postgrad. cert. in educn. of Univ. of London, coll. dipl. in educn. and univ. dipl. in child study.

**THE NIGERIAN INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH** (see also 'Teaching Staff', above) is sponsored by the Nigerian fed. govt. and by the univ. coll., with which it operates in close assocn. Its functions are to conduct econ. and soc. res. and to provide a centre for indep. res. workers in Nigeria.

**INSTITUTE OF CHILD HEALTH** Founded 1961 with funds from United Africa Co. received through fed. govt. Its aims are to conduct and co-ordinate res. into problems of child health.

**ADMISSION** There are 2 methods of admission: (1) By passing the coll. entrance exam. Candidates are ordinarily eligible if they have passed the Cambridge sch. cert. exam. with passes at credit standard or obtained a gen. cert. of educn. with passes at ord. level in Engl. and 3 other subs. or equivalent. (2) By direct entry. This is exemption from the entrance exam. and may be applied for by candidates who have satisfied the full minimum entry requirements of the Univ. of London together with the addnl. requirements for entry in specific degree subsj.

**FIRST DEGREES** (of Univ. of London). The coll. has been admitted to a sp. relation with the Univ. of London\*, and courses of instructn. are given in preparation for degrees of that univ. The coll. staff co-operate with the Univ. of London in preparing syllabuses and in the exams. 2 yrs.—BA gen., BSc gen.; 3 yrs.—BA hon. (in classics, Engl., geog., Greek, hist., Latin, math.), BSc spec. (in bot., chem., geog., math., phys., zool.), BSc(Agric), BSc(Agric) hon., BSc(Econ), BD; 6 yrs.—MB BS.

\*Teaching for Ibadan degrees of BA, BSc,

BAgric, MB BS, BSc(Econ), BSc(PolSci), BSc(Soc) will begin in the academic session 1962-63. Degree courses other than those in fac. of med. will be of 3 yrs' duration, with hon. in each case. All entrants require full-time residence.

**HIGHER DEGREES** (of Univ. of London). Postgrad. and res. facilities are available in arts, sci. and agric. The coll. has started a 1-yr. course for the degree of MSc(Agric). Full-time members of the teaching staff may register as internal students for the PhD degree of the Univ. of London.

**DIPLOMAS** (of the coll.) 1 yr.—educn., 18 mos.—child study, phonetics (See also 'Librarianship Course', below).

**CERTIFICATE** (of Univ. of London) 1 yr.—postgrad. cert. in educn.

**LIBRARIANSHIP COURSE**, 1 yr., leads to registration exam. of Library Asscn., London, and (2 yrs.) coll. Dipl Lib.

**FEES** for bd. and tuition: Agric., £132-£187 p.a.; arts, £127-£152 p.a.; educn., £180 p.a.; med., £162-£262 p.a.; sci., £132-£162 p.a. Postgrad., £200. All students are resident.

**ACADEMIC YEAR** Oct. to June, 3 terms.

**LANGUAGE OF INSTRUCTION**. English.

**ADULT EDUCATION** The dept. of extra-mural studies arranges classes throughout the 3 regions of Nigeria, the work being financially supported by the fed. and regional govts.

**VACATION COURSES**, involving residence in the coll., are conducted during long vac. by dept. of extra-mural studies.

**SCHOLARSHIPS**, etc. Fees plus £75 p.a. for remainder of course awarded by coll. on prelin. exam. and on sess. exam. for direct entry in any fac., Nigerian fed. govt. awards annually 10-15 state scholrs. covering fees, vacation allowances and allowance of £70 p.a. for prelin. & degree course (£80 clm. med.), Nigerian Cocos Marketing Bd. (open to sons and daughters of cocoa farmers), fees plus £65 p.a. (prelin. students), and £70 p.a. (degree students), and vacation allowances. Fed. and regional govts. award bursaries similar to those of the N.C.M.B., to selected students in any fac., allowances, according to region, from £50 to £70 (prelin. students), £55 to £70 (degree students), £70 to £80 (clm. med. students); John Holt scholr.; 'Cambridge' scholr.; Shell Co. of Nigeria scholr.; Nigerian Tobacco Co. scholr.; United Africa Co. scholr.; Lever scholr.; Shell-B.P. scholr.

**THE GUILD OF GRADUATES** All grads. of the coll. and all grad. members of staff are eligible for membership.

**RESIDENCE**. The coll. is entirely residential. Men: Mellanby Hall (accom. for 208 students), Todder Hall (195), Kuti Hall (207), Sultan Bello Hall (167), Chin. Students' Hostel (148), Old Site (120). Women: Q. Elizabeth Hall (145), New Hostel Block (450).

\* For a note on these 'special relationship' arrangements, see p. 1074.

Partly furnished STAFF RESIDENCES of varying types are provided in the coll. grounds.

STUDENT HEALTH SERVICE under the supervision of the coll. med. officers.

The UNION controls all student athletic and other extra-curricular activities. Student officers elected annually.

PUBLICATIONS *Colours* (annual, 3s. 6d.); Principal's Foundation Day *Address*, *Laboratory Record* (monthly)

The UNIVERSITY BOOKSHOP, a limited co. con-

trolled by the coll., carries a very varied stock ranging from sec. mod level to books required for postgrad. res. and covering most fields of gen. lit. also. It serves the coll., trg. colls., schs., librs. and individuals throughout Nigeria.

UNIVERSITY PRESS Operates under direction of publca. citizee of senate and has its own printing press. It does all official coll. printing and also prints books of scholarship relating to Nigeria and several Nigerian journals of a learned and cultural nature.

## THE YEAR 1961

PRINCIPAL BENEFICIARIES Ford Foundation, \$42,000 for devel. of foreign advisory staff and trg. of African staff; Nat. Sci. Foundation, \$22,000 for phys. res. on equatorial electrolytes; Rockefeller Foundation, \$10,000 for 5 yrs for exchange of profs. in African med. scs.; and \$20,000 for psych. conference on African mental health problems.

(Total value of all benefactions received £57,000).

MAJOR BUILDING DEVELOPMENTS Bldgs completed: Indep. Hall (to accomm. 450), extensions to halls of residence; ann. bldg., inst. of child health. *Approaching completion* mosque.

NEW DEPARTMENTS AND CHAIRS Deps. and chairs of arabic studies, agric. biol., agric. chem. & soils, agric. orgn., geol., govt., linguistics & Nigerian langs., mod. langs., paid. Chairs of biochem. and pharmac.

RESIGNATIONS: O. A. Ajose (prev. & soc. med.), apptd. vice-chancellor, Ife; S. B. Akpana (libr.); R. L. Bates (surg.), apptd. to N.H.S.; Virginia Beowne-Wilkinson (Engg.), M. J. Cole (bot.), P. J. Collier (bacteriol.), apptd. to chair of bacteriol., Monro; D. A. Dorsett (zool.); H. O. W. Egnins (bot.); Irene Fatayi-Williams (admin.); B. J. Garner (geog.), apptd. to chair of geog., Indiana; M. J. Garside (econ.), apptd. res. fellow, L.S.E.; M. A. George (catering), apptd. to Ife; A. R. Hasel (anc. hist.), Mrs. V. Hines (psychol.); V. W. Hogg (N.I.S.E.R.), apptd. to internat. bank, Washington; L. O. Ihekwe (phys.), apptd. to W. Nigerian Radiovision; A. W. Moore (soil scs.), apptd. lectr., Alta.; E. Mphahlele (extra-mural); R. R. Myhill (agric. tech.); Margaret C. Newmark (med. officer); S. C. Nwoye (libr.), apptd. dep. librarian, Nig.; V. O. S. Oluwole (maths.), apptd. lectr., Ife; V. A. Oyenuga (agric.), apptd. to chair of

agric., Ife; J. R. V. Prevett (geog.), apptd. lectr., Melb.; Miss Evelyn E. Sanderson (zool.), apptd. lectr., Westfield Coll., Lond.; H. Schmedden (pharmacol.), apptd. sr. lectr. in neuropharmacol., Nat. Hosp. for Nervous Dis., London; R. Sen (bacteriol.), apptd. to chair of bacteriol., Delhi; O. W. (extra-mural); E. J. M. Weaver (surg.), apptd. to N.H.S.; H. P. White (geog.), apptd. to Roy. Coll. of Adv. Technol., Salford.

### Statistics

#### STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1176*	—
Women	79	—
Total	1255*	—

Distribution by Faculties. *Agric.*, 87; *arts*, 263; *educn.*, 51; *med.*, 236; *sci.*, 291; *res.*, 17. Total: 1045.

Included in the figures above are:—

New admissions, 377 (excluding Zairis).

Postgraduate students, 24.

Students from other countries, 43.

DEGREES AWARDED (1961) Special relation with Univ. of London—*Agric.* BSc(Agric), 6; *negrotat.*, 1. *Arts*: BA, 64; BA hon., 61. *Econ.*: BSc(Econ), 14. *Engn.*: BSc(Eng), 11. *Med.*: MB BS, 26. *Sci.*: BSc, 20; BSc spec., 37. External degrees of Univ. of London—BSc spec., 1. Total number of first degrees awarded, 241.

DIPLOMAS AWARDED (1961) Associateship dipl. in educn., 39.

CERTIFICATES AWARDED (1961). PGCE, 6.

\* Includes 114 engineering students at Nigerian College, Zaria

# UNIVERSITY OF IFE\*

Founded 1961

Postal Address: Ibadan Branch, Ibadan, Nigeria, West Africa

Cables and Telegrams: Ife Varsity

Telephone: Ibadan 22261

(London Representative, 56-60 Hallam Street, W.1 Telephone: Langham 6860)

New York Representative, 800 Second Avenue, New York 16. Telephone: TN 7-0400

CHAIRMAN OF PROVISIONAL COUNCIL—Chief F. R. A. WILLIAMS, QC, MA Camb

VICE-CHANCELLOR—O. A. AJOSI, OBE, JP, MD DPH Glas

PRO-VICE-CHANCELLOR—S. O. BIOBAKU, CMG, MA Camb, PhD Lond.

ACTING REGISTRAR—T. O. SHOTUNDE, BSc(Econ) Lond.

LIBRARIAN—P. A. TOWSEY, BCom Lond

LIBRARIAN—R. S. BURKE, MA Camb

## TEACHING STAFF

<b>Accountancy</b>		Aluko, S. A., BSc(Econ) PhD Lond.	
Beil, W. H.	Lectr	(Econ) Lectr.	
<b>Agriculture</b>		Williams, B. A., BA Wn, MA PhD Ill.	
Oyenuga, V. A., BSc PhD Dwh., FRIC	Prof	(Govt) Lectr	
Fayomi, A. A. A., BSc Oshana, MSc Ill.,		(Govt) Lectr	
PhD Kassar (Crop Husbandry) Sr Lectr		(Govt) Asst Lectr.	
Adegbola, A. A., BSc(Agric) Lond,			
MSc Rutgers (Animal Husbandry) Lectr.			
Ilari, C. O., BSc AgrG., MSA Tai.			
	(A Econ) Lectr		
Jayeko, E. O., BSc(Agric) MSc Lond.			
	(Soil Sci.) Lectr		
Russell, I. A., BScAgr Gresham, MSc Nebraska	(A Econ) Asst Lectr		
<b>Botany</b>		<b>English</b>	
Polunin, N., MA DPhil Oxon, MS Yale,	Prof.	Cornie, R. H., MA PhD St. And	Prof.
FLS		McClelland, Miss E. M., BA PhD Lond	
Herbarium Curator, : Demr.			Sr. Lectr.
<b>Chemistry</b>		Soyinka, W., BA Leeds	Lectr.
Fayiga, T. O., MSc Lond		<b>Geography</b>	
Lectr., Actg. Hd. of Dept.		Ojo, G. J. A., MA N.U.I., DipEd Lond.	Lectr.
<b>Comparative Religion</b>		<b>History</b>	
Davies, H. I., BA Wales, PhD Lond.		Smith, R. S., MA Oxon	Lectr.
Sr. Lectr., Actg. Hd. of Dept		<b>Law</b>	
<b>Economics and Social Studies</b>		Hanbury, H. G., QC, MA DCL Oxon.	Visiting Prof.
Price, J. H., MA Oxon		Marshall, O. R., MA Camb, PhD Lond	Visiting Prof.
(Govt.) Sr Lectr., Actg. Hd. of Dept.		Odumoso, O. I., LL.M PhD Lond.	
		Lectr., Actg. Hd. of Dept.	
		Kasunwa, A. B., LL.B Lond.	Lectr.
		Okuniga, A. A. O., LL.B Qw	Lectr.
		<b>Mathematics</b>	
		Kurth, R., PhD Bonn	Prof.
		Olumloyo, V. O. S., BSc PhD St. And.	Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Pharmacy**

Hardman, R., BPharm BSc PhD Lond. *Sr Lectr.*  
 Walters, V., BPharm Wales, PhD Lond.  
 (Pharmaceutics) *Sr Lectr.*  
 Kulkarni, J. S., BSc BPharm Ban.,  
 PhD Notf. (Pharmacognosy) *Lectr.*  
 Heathcote, Miss J., BPharm Lond.  
 (Pharmaceutical Chem.) *Lectr.*  
 Tella, A., MSc Edin, PhD Lao  
 (Pharmacol) *Lectr.*  
 Rivers, Miss S. M., BSc Manc.  
 (Pharmaceutics) *Lectr.*  
 Ikotubosin, G. O., BPharm PhD Lond.  
 (Pharmaceutical Chem.) *Lectr.*  
 Dance, Miss J. A., BSc Manc.  
 (Pharmacol) *Asst. Lectr.*

**Physics**

Ojo, D. P., BSc PhD Edin  
*Sr Lectr., Actg. Hd. of Dept.*

Brown, Mrs. S. A., BSc Lond., MA Smith  
*Asst. Lectr.*

**Zoology**

Onabesiro, S. D., BSc Manc., PhD Lond. *Prof.*  
 Adesunmola, E. A., BSc Lond. *Lectr.*

**INSTITUTE OF AFRICAN STUDIES**

Biobaku, S. O., CMG, MA Camb.,  
 PhD Lond. *Dir.*  
 Myers, O. H. *Sr Lectr.*  
 Horton, W. R. G., BA Oxon. *Lectr.*  
 Babalola, S. A. O. *Lectr.*  
 Marshall, R. L., BSc LLB Harv.  
*Res. Fellow, & Studio Technician*

**ADMINISTRATIVE AND OTHER STAFF**

Univ. Solicitor: Chief A. M. A. Akintola,  
 LLB Lond. *Asst. Registrar* ... ; J. A.  
 Olanibola, BSc(Econ) Lond.; T. O. Olujoba,  
 MBE. *Catering Manager.* M. A. George.

Adm. Officer: S. O. A. Odukindo.  
 London Representative: J. L. Keith, CBE,  
 MA Oxon. New York Representative: Mrs.  
 Jean Rich.

**GENERAL INFORMATION**

The Univ. is an entirely independent instn governed by a council establd. by Univ. of Ife (Provisional Council) Law, 1961.

The Univ.'s first students are being admitted in Oct. 1962 to its 1st-yr. branch (housed in the Ibadan branch of the former Nigerian Coll. of Arts, Sci. & Technol.).

**CONSTITUTION.** Governing body of Univ. is council, composed of following members apptd. by govt. in council: chairman, vice-chancellor, pro-vice-chancellor, not less than 5 nor more than 9 other members not employed on academic or admin. staff of Univ., and registrar as secretary. There are also 2 members of academic bd. selected by the bd. Academic bd. is empowered to regulate teaching, academic policy and advancement of res. of Univ., and to deal with any other matters assigned to it by council.

**INCOME.** Govt. of western Nigeria allocated initial sum of £1,000,000 from its estimates for 1961-62. It is also envisaged that the Western Region Marketing Bd. will donate a substantial sum for bldg. of Univ.

**FACULTIES.** Agric., arts, econ. & soc. studies, law, sci. Inst. of African Studies. During 1st quinquennium, fcs of engin. and med. will be developed in addition.

**LOCATION.** Ife, which will be the seat of the new Univ., is an ancient town with important historical and archaeological associations. It lies 25 miles N.E. of Ibadan, headquarters of western Nigeria, and 143 miles from Lagos, capital of the fed. of Nigeria. Site of Univ. is about 3 miles

from Ife town and comprises 16,000 acres of good agric. land. There is a branch of the Univ. at Ibadan, which will be devoted mainly to the fcs of engin.

**ADMISSION.** The following are likely to be the minimum qualifs. for entry: (a) Cambridge Higher School Cert. (with 2 subs. at principal level and 3 other subs. at subsidiary level); (b) General Cert. of Education (with 2 subs. at advanced level and 3 other subs. at ordinary level); (c) any other equivalent qualifs.

**FIRST DEGREES.** The Univ. proposes initially to award 2 main types of bachelor's degrees, 'general' with hon. and 'special hon.', each obtainable after 3 yrs. study. Courses (3 yrs. each) leading to following degrees begin in 1962-1963: BA, BSc, BSc(Agric), BSc(Econ), LLB.

**STUDY LEAVE.** On recommendation of academic bd., study leave may be granted to a member of staff for 1 term after he has completed 9 terms of office.

The LANGUAGE OF INSTRUCTION is English.

**ACADEMIC YEAR.** 3 terms: early Oct.-mid-Dec.; early Jan.-end March; mid-April-end June.

**STUDENT RESIDENCES.** Students are to be accommodated in residential student hostels and in lodgings in town.

**STAFF RESIDENCES.** Staff accomm., if provided by Univ., will be at a rental not exceeding 7 per cent. of salary.

**PUBLICATIONS.** Gazette.



# UNIVERSITY OF LAGOS

Founded 1962

Postal Address: Private Mail Bag 2573, Lagos, Nigeria, West Africa

Cable and Telegram: University, Lagos

CHAIRMAN OF PROVISIONAL COUNCIL—E. N. O. SOGGINDE, MBE, MA MD Dab

VICE-CHANCELLOR—E. NJOBU, BA PhD Lond, MSc Manc

REGISTRAR—A. Y. EKE, MA Camb, BSc Lond

## TEACHING STAFF

<b>Biology Research Unit</b>		Awa, E. O., MA PhD N.Y.	Sr Lectr
Njoku, E., BA PhD Lond, MSc Manc.	Prof, Hd of Unit	Adu, A., MSc(Econ) Lond	Lectr.
Orebiye, T. O., BSc Lond	Jr Res Fellow		
<b>Commerce and Business Administration</b>		<b>Law</b>	
Wolf, S. K., BS Louisiana, MS Yale	Prof	Gower, L. C. B., MBE, LL.M Lond.	Prof Lectr
Krust, H. E., BA Northfield, MS PhD N.Y.	Prof	Nwagbaze, B. O., LL.M Lond	Lectr
		Park, A. E. W., BA Oxon	Lectr
		Okoekwe, C. O., LL.B Manc	Asst Lectr

## ADMINISTRATIVE AND OTHER STAFF

Asst Registrar: S. A. Osimulu, MA Northwestern, BA Lond Accountant: S. A. Makunwa, BCom McG

## GENERAL INFORMATION

The Univ. was incorporated by the Univ. of Lagos Act, 1962. There is an autonomous med sch.

The Univ.'s first students (75 in all) are being admitted in Oct. 1962.

**CONSTITUTION.** The provisional council is the supreme governing body. The senate generally manages and where necessary advises the council upon the educn. affairs of the Univ.

The med. sch. is governed by a sep. med. sch. council.

**INCOME.** The Univ. is financed by the govt. of the fed. of Nigeria. A Natnl. Univs. Commission, through which the Univ. will receive its funds, will shortly be establd.

**FACULTIES AND DEANS.** Comm. & bus. admin., Prof. S. K. Wolf; law, Prof. L. C. B. Gower.

ADMISSION will be by direct entry, the min. qualifs. being the same as those of U.K. univs., i.e., at least 2 subjs. at advanced level and 3 other subjs. at ordinary level in the General Cert. of Educn. or equivalent.

**FIRST DEGREE.** 3 yrs.—BCom, LLB.

Fees for bd. & tuition in facs. of comm. & bus. admin. and law, £150 p.a.

**ACADEMIC YEAR.** 1962-63: 15 Oct. 1962-8 June 1963, with summer term 8 July-14 Sept. 1963.

**LANGUAGE OF INSTRUCTION.** English.

**STUDENT RESIDENCE.** The Univ. is ptly. residential. The 1st students' hostel is temporarily located in the precinct of the Baptist Academy, Lagos.

# UNIVERSITY OF NIGERIA\*

Founded 1960 (Statute of Incorporation, 1955)

Postal Address : Nsukka, Nigeria, West Africa

Cables and Telegrams : Nigarsity, Nsukka

Telephone : Nsukka Exchange

(London Representative, 33 Craven Terrace, W.2. Telephone : Paddington 7961)

CHANCELLOR—H.E. The Rt Hon N AZIKWE, MA MSc LL.D D.Litt, Governor-General of the Federation of Nigeria

VICE-CHANCELLOR—G. M. JOHNSON, LL.B JSD Calif

RECTOR—J. W. MONTON, BScEd Virginia State, CSW Howard, MA N.Y.

SECRETARY TO COUNCIL—B. N. CHUKWUDE, MA BSc Oxon

LIBRARIAN—J. MANDOLD, MA Camb

LIBRARIAN—R. V. AFRANDE, BA BSc LL.B PhD Bos., FLA

## TEACHING STAFF

African Studies, College of		Business Administration, College of	
Hansberry, W. L., MA Harv		Okeke, S. A., BA Lincoln,	
LL.D Virginia State, Hon LittD	Prof	MA Atlanta	Lectr.
Agriculture, Cardoso College of		Chemistry	
Lawton, K., BSc Minn., PhD Mich State		Singh, Apar, DIC, PhD Panz & Lond.,	
Visiting Prof, Hd of Coll		MSc Panz	Sr Lectr., Hd of Dept
Henderson, H., MSc Virginia Polytech,		Nagarajiah, H. S., BSc Mys., MSc Ban,	
PhD Mich State	Visiting Prof	PhD Camb	Sr Lectr
Gunkle, W. W., BSc N Dakota,		Lane, C. A., BSc Oklahoma, MSc Yale	Lectr
MSc Iowa State, PhD Mich State		Base, B., MSc PhD Alld	Lectr.
	Visiting Prof	Avraham, M., MSc Jerusalem, DSc Haifa	Lectr.
Oyulu, C., BSc PhD Durk	Lectr	Stewart, Ruth, BA Pennon, MA	
Okigbo, B. N., BSc Wash., MSc		MSc Yale	Asst Lectr
PhD Conn.	Lectr	Economics	
Tewari, G. P., BSc Agric, MSc PhD Minn		Cave-George, N. A., MSc PhD Lond	
	Lectr	Prof., Hd. of Dept	
Egri, B. A. C., MSc Lond	Lectr	Fishela, O., BA Ohio Wesleyan, MA Ill	Lectr.
Njoku, J. R., BSc Mich State, MA N Y	Lectr	Igere, M. O., MA Durk., PhD Prob	Lectr.
Adams, J. W., DVM Conn.	Lectr	Ugoh, S. U., BA New Hampshire,	
Attah, B. U. A., BSc Tuskegee, MSc Iowa		MA Harv	Asst Lectr.
Farm Manager		Education, Harden College of	
Architecture, College of		Heederson, J. P., BA Calif.,	
Dhai, B. K., BA Arch Calif, MA Arch Harv		PhD Maryland	Visiting Prof
Sr. Lectr., Asst Hd of Coll.		Education, Harden College of	
Botany		Fafunwa, A. B., BSc Flor., MA	
Naqvi, S. H. Z., BSc Agric, MSc Alld.,		PhD N.Y.	Sr Lectr., Hd of Coll.
DipSM Ont., PhD Ont		Okala, J. B. C., BA New thwestern,	
	Sr. Lectr., Hd of Dept	MA Yale & Col., MAEd N.Y., EdD Col.	
Moxie, J. O., BSc Howard, MSc McG	Lectr		Sr Lectr.
Okoye, A. A., MSc Purdue	Asst Lectr	Uleje, O., MSc Ohio, MA EdD Col.	Lectr
McKay, Judith, BSc Duke	Asst Lectr.	Ukpab, E. N., BSc Tuskegee, MA Atlanta,	
Martin, E., BSc Tw., MSc PhD Conn.		PhD Bradley	Lectr.
	Visiting Prof		

\* Member of the Association of Universities of the British Commonwealth

- de Turville, J. R. P. D., MA Camb.,  
DipEd Lond. Lectr.
- Anonni, J. O., MA DipEd BEd Edu Lectr.
- Njoku, S. O., BSc *Benedict*,  
MA(Ed) *S'ion* Aast. Lectr.
- Odokarn, E. O., BSc *McPherson*,  
MAEd *Wichita* Aast. Lectr.
- Sindair, W. W., MA *Mich.*,  
PhD *Mich State* Visiting Prof.
- Crook, Catherine, BA *Smith*, MA *Corn*  
Aast. Lectr.
- Education, Physical: Powell College of**
- Hannes, J. E., BA *Morehouse*, MEd  
PhD *Springfield* Visiting Prof., Hd. of Coll.
- Whitfield, M. G., BSc *Los Angeles State*  
Sr. Lectr.
- Iyo, Miss Aashyefofun Lectr.
- Achango, E. Res. Aast.
- Education, Vocational**
- Davis, R. C., MA PhD *Mich State*  
Visiting Prof.
- Agusiobo, O. N., BSc *Obafemi*,  
MSc *IFP* Lectr.
- Fink, F. T., BSc MA *Mich State* Lectr.
- Akumanya, M. O. Res. Aast.
- Engineering, Agbebe College of**
- Zamen, A., MSc *T H Delft*  
(Civil E.) Visiting Prof., Actg. Hd. of Coll.
- Van Albada, P. J., MSc *Ley*, PhD *Utrecht*  
(Maths.) Visiting Prof.
- Chang, J. C. L., BSc *St John's*,  
DSc *Cornwall Tech* (Struct. E.) Visiting Prof.
- Niermans, J. W., MSc *T H Delft*  
(Mech. E.) Visiting Prof.
- Onianwah, P. C., MSc *Dring T H Dresden*  
(Electronics & Communication) Lectr.
- Schot, J. A., BSc *E H Rotterdam*,  
MSc *T H Delft* (Electr. E.) Visiting Prof.
- English**
- Neenan, J. A., MA DPhil *Oxon*  
Visiting Prof., Hd. of Dept.
- Shelton, A. J., Jr., BSc PhD *St Louis* Sr. Lectr.
- Jackson, Mia M. Y., BSc *Tulagee*,  
MA *Iowa*, PhD *Corn* Sr. Lectr.
- Diggs, P. L., BA *Virginia State*,  
LLB *Howard*, MA *Iowa* Sr. Lectr.
- Thomas, P. D., MA *Oxon* Lectr.
- Ekenyong, J. O., BA MEd *Boston*,  
MA *McG.* Lectr.
- Luminski, R. M., MA *S Carolina*,  
PhD *Mich State* Visiting Prof.
- Lawrence, E. P., BA *Kenyon*,  
PhD *W. Reserve* Visiting Prof.
- Echiaro, M. J. C., BA *Lond.* Aast. Lectr.
- Wah, O., BA *Lond* Aast. Lectr.
- Okechi, Miss Inyang E., BA *Virginia Union*,  
BEd *Tor*, MAEd *N Y.* Aast. Lectr.
- Alexander, Elsiebeth, MA *Mich.* Aast. Lectr.
- Blount, Mrs. L. M., BSc *Iowa State* Aast. Lectr.
- Landrum, R. L., BA *Albion*,  
MA *Bowling* Aast. Lectr.
- Schickels, D., BA *Swanlowe* Aast. Lectr.
- Azwothy, G. J., MA *Camb*  
(Dramatics) Sr. Lectr., Dir. of Univ. Theatre
- Finance, College of**
- Usoaga, W. O., BSc *Long Island*,  
MA *Corn*, PhD *Fordham* Lectr.
- Nair, G. R. K., MCom *Alb.* Lectr.
- Rungin, R. S., MCom LLB *Calif* Lectr.
- Fine Art, Enweonwu College of**
- Pfeister, R. J., Jr., BScEd *BFA*  
MA *Ohio State* Sr. Lectr., Hd. of Coll.
- Lasekan, A. Lectr.
- Akayo, I. P. D. Aast. Lectr.
- 2 Teaching Assis.
- General Studies, College of**
- Druze, J. L., BEd *Wis State Teachers*,  
MA *Marquette*, PhD *Cinc*  
Visiting Prof., Actg. Hd. of Coll.
- Zerby, L. K., BSc MA *Ill.*,  
PhD *Iowa State* Visiting Prof.
- Rendazo, A. T., BA *LaSalle*,  
MA *Rutgers* Aast. Lectr.
- Geography**
- Sartar, P. K., MSc *Calif*, PhD *Lond.*  
Sr. Lectr., Hd. of Dept.
- Willmer, J. E., MA *Edu. & Indiana*,  
DipEd *Oxon* Lectr.
- Johnson, J. H. E., MA *Camb.* Lectr.
- Flayd, B. N., MA *Camb. & Miss*,  
PhD *Syr* Visiting Prof.
- Inyang, P. E. B., BA *N U.I.*, MA *Lond*  
Aast. Lectr.
- Foster, G., MA *Mexico City* Res. Fellow
- Geology**
- Mitchell-Thomson, R. C., BSc *Glas*,  
DipMinGeol *Pennsa*, DPhil *Lidge* Prof.
- Orajaka, S., BA *Wesleyan*,  
MSc *Mich Min. Coll* Lectr.
- History**
- Markov, M., PhD *Bonn* Prof.
- Achufusi, M., DipHist PhD *Leip* Sr. Lectr.
- Nwabara, S. N., BA *Kansas Wesleyan*,  
MA *Syr* Lectr.
- Mumford, Fr. C. J., MA *W. Reserve* Lectr.
- Müller, F. F., PhD *Berl.* Lectr.
- Eluwa, G. I. C., MA *St And*, DipEd *Edm.* Aast. Lectr.
- Scheppeler, R. H., BA *Texas* Aast. Lectr.

<b>Home Economics, Osmond College of</b>		Basse, B. E., BSc Lond, MSc Lond	Lectr
Kirkland, Mrs M W., MA EdD Cal.	Prof	Casale, X. F., BSc Rhodes, MSc Lond	
Butcher, Mia H. W., BSc Tuskegee, MSc Ohio State	Lectr	Guobada, A. I., BSc Lond.	Asst. Lectr
Onwosah, Mrs V. I., BSc Howard, MA Cal.	Lectr	Madueme, A. A., BSc Lond	Asst. Lectr.
1 Teaching Asst.			
<b>Journalism, Jackson College of</b>		<b>Political Science</b>	
Roe, E. O., BA Wheaton (Ill.)	Lectr	Blyden, E. W., III, MA Med PhD Harv	
Johnson, Mrs J. H. B., BA Northwestern	Asst. Lectr.	Si Lectr., Hd of Dept.	
Kranzdorf, R. B., MA Penn	Asst. Lectr.	Evora, K., MA Harv, DPhil Oxon	Sr Lectr
		Odonigwe, G. A., BA Atlanta, MA	
<b>Languages, Ward College of</b>		PhD Clark	Lectr.
Bairrett, B. C., MA N U I.	Lectr	Aligwekwa, I. C., MA McG., BA	
Okekefin, C. O., BA Cal., PhD Bow	Lectr	PhD Ohio State	Lectr
Chambers, Joan B., BA Mass	Lectr.	Aligwekwa, Mrs E. C., MA Ohio State,	
Jull, Miss J. M., MA Camb	Lectr	PhD Bryn Mawr	Lectr
Maitie, H. J., BA Bonn	Lectr	Deadles, I. M., BA Harv	Asst. Lectr.
		Eaton, G. T., BA Yale, MA Yale	Asst. Lectr.
<b>Law, Separa-Williams College of</b>		<b>Religion, Crowther College of</b>	
Johnson, G. M., LLB JSD Calif	Hd of Coll	Aderese, Rev S. A., MA BCL	Sr Lectr
Achike, G. A., LLB Brit	Lectr.	DipTh Durk	Lectr
Ogwuoke, C., LL.M PhD Lond	Lectr	Ezeanya, Rev S. N., DD Rome	
Franklin, John, BA LLB Wayne State	Asst. Lectr.		
Gleason, M. J., BSc Drury Loyola	Asst. Lectr.	<b>Secretarial Studies, McEwen College of</b>	
		Ogunbawo, F. A.	Asst. Lectr
<b>Mathematics</b>		Ogunyemi, E. O.	Asst. Lectr.
Chiodhuri, P. C., MSc Cole, PhD Lond	Prof, Hd. of Dept	Kacchela, J. P., BA Mich. State	Asst. Lectr.
Wardle, K. L., MA Camb.	Visiting Prof	Rupp, Helen, BSc St. Joe	Asst. Lectr.
Mitter, O. K., BSc Rangoon, MSc Lond	Si. Lectr	<b>Sociology</b>	
Seth, I. D., BSc Alld & Lond, ARCS,	Lectr	Ndem, E. B., MA DipEd Lond,	
PhD Lond	Lectr	BA Mass	Lectr
Russell, Rev. Fr. B., MSc HDipEd N U I.,	Lectr.	Nugbo, P. O., MA Edus,	
LacSacTheol Greg	Lectr.	MSocSc Inst for Soc Studies (The Hague)	Lectr
Lau-Pook, Rev. Fr. A., BA MSc N U I.	Lectr	Smith, Miss C. A., BA Hunter, MA Cal.,	
Swan, H. S., BA Harv, MA Chic	Lectr	BLitt Oxon	Lectr
Adichie, J. N., BSc Lond	Asst. Lectr	Nkpe, N. K. U., MA Kent State	Asst. Lectr
Longcore, R. J., MSc Mich	Asst. Lectr	Bisont, R. C., MSc Iowa State	Asst. Lectr
<b>Music, Sowande College of</b>		<b>Surveying, College of</b>	
Smith, Miss E. M., MM Manhattan Sch.,	Lectr	Lewis, A. V., MA Camb	Sr Lectr. Hd of Coll.
MA PhD Cal.	Lectr	Noailles, C. B., MSc	Lectr
Nutting, G. H., BA Durh., DipTheol Oxon	Lectr	<b>Zoology</b>	
Echezona, W. W. C.	Lectr	Sharma, H. L., MSc Agrs, PhD Ray	Prof
		Okpala, I., BSc Virginia Union,	
<b>Physics</b>		MSc Howard, PhD Sy.	Lectr.
Brancher, A. V., BSc Brint, MSc	Prof	Akpabio, I. U., BSc Boston, PhD Ott.	Lectr
PhD Brint	Prof		
Mitra, S. C., MSc Decca, DPhil Cole	Sr Lectr	<b>CONTINUING EDUCATION CENTRE</b>	
Mathias, G., PhD Lep	Sr Lectr	Svenson, E. V., MA EdD Calif	Visiting Prof

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY COUNCIL. Asst. Sec.: J. J. A. Aduha, BA Lond

OFFICE OF CHANCELLOR: London Representative of Univ. Col. E. C. Alderton, CMG, BA Camb.

OFFICE OF VICE-CHANCELLOR Visiting Prof : J. M. Bain, BSc MA, S Dakota, PhD Missouri. Executive Asst. : Mrs. Mary Tibbs. Co-ordinator, Univ of Nigerian Programme, Michigan State Univ., E Lansing : G. H. Axinn, BSc Chem, MSc PhD Wm. Assoc Co-ordinator, Univ. of Nigerian Programme, Michigan State Univ., E Lansing : S. Cherney, BA Arizona, MA Wayne State, PhD S Calif. Peace Corps Dir. D. L. Grummon, BA DePaul, MA Ohio State, PhD Chic.

OFFICE OF REGISTRAR. Dep Registrar : V. C. Ika, BA Lond. Asst Registrar : E. J. Usoro, BA Wala. S. Green, BA Boston, MA Cal.

OFFICE OF BURSAR. Chief Accountant : J. B. Fleming. Dep Chief Accountant : J. H. Bessey. Accountant : N. A. A. Hylton.

LIBRARY. Dep Librarian : S. C. Nwoye, BA Dip Lib Lond. Cataloguer : N. Amasikwe. Asst. Cataloguer : O. O. Ogunlipo. Asst Librarians : Mrs. Dorothy S. Ohi, BA Berea, MSc Cal., Miss A. O. Ike, BA Lond.

OFFICE OF STUDENT AFFAIRS. Dean of Students : B. L. Perry, BSc Flor, MSc Iowa State, PhD. Core Students' Psychological Testing Officer : J. O. Anyegbumam, BA MSc C.C.N.Y. Mental Hygiene Counsellor : Mrs. V. S. Scheppler, BSc Niagara, MSc Buffalo.

UNIVERSITY HEALTH CENTRE. Sr. Resident Med. Officer : V. D. Lagros, MD St Thomas (Mamfa). Resident Med. Officer : O. L. Ekpechi, MB BS Lond, DTM&H Lib., DCH N.U.I.

UNIVERSITY ENGINEER. O. Asika, BSc Lond. CATERING MANAGER : Miss R. A. Ibanya.

## GENERAL INFORMATION

The Univ. is an independent instn. governed by a council established by the Univ. of Nigeria Law 1961.

The first undergrads came into residence in Oct 1962.

CONSTITUTION. The paramount governing body of the Univ. is the council which is composed of the chancellor, vice-chancellor, 5 persons apptd by the governor-in-council and 2 persons representing the senate. The senate, which deals with academic matters, consists of the vice-chancellor, the deans of the several facs., the hds. of the several colls, the profs. of the Univ., the librarian, the dir. of extra-mural studies and 3 members of the academic staff nominated by senate.

INCOME. The income of the Univ. is derived from a 'Univ. of Nigeria Fund' which formerly consisted of an annual grant of half a million pounds from the Eastern Regional Marketing Bd. — a statutory corporation created by the govt. of eastern Nigeria; the grant to the Univ. is now made direct by the govt. of eastern Nigeria. The fund, which was set up as a result of an eastern regional directive of 1953, totalled £2,500,000 at Dec. 31, 1959, and in 1962 stands at £4,225,000. An addnl. source of income is expected from the Natnl. Univs. Commission.

FACILITIES. Arts, law, res., sci., soc. studies, technol.

LOCATION. The Univ. is located in Nsukka, a town 40 miles from Enugu, the admin. capital of eastern Nigeria. A total area of 3000 acres of land has been acquired for use by the Univ. and a further 15,000 acres is contemplated for use by the Univ. as agric. and commercial sites.

LIBRARY. 38,000 vols.

MICHIGAN STATE UNIV. has contributed members of staff for both admin. and teaching purposes. The Agency for Internat. Devel. will contribute to the construction of a continuing education centre and to the devel. of the agric. teaching &

res. centre. The Commonwealth Relations Office (U.K.) and the Peace Corps organisation (U.S.A.) are also contributing to the teaching staff. A yr. Univ. advisory cttee consisting of reps. of the Univ. of Nigeria, Michigan State Univ. and the Univ. of London has been formed; this cttee will report to the Univ. council annually on a wide range of Univ. activities.

ADMISSION. Candidates for admission to a 1st degree course must possess at least one of the following: (a) W. African School Cert (grade 1 or 2) or the old London matric. cert; (b) General Cert. of Educn. at ordinary level in 6 subjs. incl. Engl. lang. and maths. or a sci. subj., all subjs. must have been passed at the same sitting; (c) passes in 2 relevant subjs. at advanced level in the G.C.E. plus passes in 3 other subjs. at ordinary level. (An applicant with passes in 3 relevant subjs. at advanced level requires only one other subj. at ordinary level, an applicant with passes in 4 or more subjs. at advanced level does not need addnl. passes at ordinary level. The subjs. need not have been passed at one sitting); (d) the Higher School Cert. with passes at principal standard in at least 2 relevant subjs. (incl. gen. paper); (e) post-secondary qualifs. above the levels of (a)-(d); (f) qualifs. obtained in other countries and recognized by the Univ. as equivalent to those listed above. Applicants with qualifs. listed under (a) and (b) above must sit a Univ. entrance exam., the results of which will determine whether or not they will be admitted.

No person under the age of 17 yrs. can be admitted to the Univ. as a student.

FIRST DEGREES. The Univ. will award its own degrees. It is proposed that most degree courses will take 4 yrs. Students with good Higher School Cert. (principal standard) or General Cert. of Educn. (advanced level) results in relevant subjs. may be exempted from appropriate 1st yr. courses; in some cases, the total exemption

granted may make it possible for students to graduate in 3 yrs.

Each student must have a major sub- or area of specialization and some minor sub- In addn., all students must attend lectures of the coll. of general studies in humanities, lang and communication, natural sci., and soc. sci.

There is a system of credits, each course being allotted a number of 'credit hours'.

Bachelor's degrees are at present offered in *arts* (Engl., hist., journalism, langs [incl. Eflit, French, German, Hausa, Igbo, Russian, Spanish, Yoruba]), *law*, *sci* (agric., bot., chem., geog., geol., maths, phys., zool.), *sec studies* (accountancy, econ., educn., pol. sci., sociol., theol., vocational educn.), *technol* (engin., fine art, home econ., music, phys. educn., secretarial studies).

**HIGHER DEGREES** The coll. of African studies comes into existence at the beginning of 1962-63. The groundwork is being prepared for master's and doctor's degrees of the univ. There are at present no postgraduate students.

**HONORARY DEGREES** DLit, LL.D., DD, DLit, DSc.

**DIPLOMAS** 2 yrs.—educn.; 3 yrs.—secretarial studies.

**FEES** Inclusive fee for tuition and residence for undergrads: £160 per academic yr.

**ACADEMIC YEAR** Oct to June 3 terms of 10 wks. each.

**LANGUAGE OF INSTRUCTION** English.

**SCHOLARSHIPS** At present many students hold scholps. awarded by the various regional govts. and the fed. gov. of Nigeria. Scholps. have also

been awarded by local gov. and voluntary agencies in various pts. of the country. The univ. awards loan bursaries to deserving students.

**STUDENT RESIDENCE** The majority of students are accommodated in the univ. There are 8 hostels, 6 for men and 2 for women.

**STAFF RESIDENCES** Staff accomm. is provided by the univ. at a rental not exceeding 7.7 per cent. of salary.

**UNIVERSITY HEALTH CENTRE** A health service for staff and students is in operation, under the direction of 2 full-time med. officers. There is provision for in-patients.

**STUDENTS' UNION** There is a students' union to which all students must belong on payment of £2 p.a. Temp. union bldg. includes canteen, offices and games rooms. The OFFICE OF STUDENT AFFAIRS, in co-operation with the union, helps to provide for the social, cultural and recreational devel. of each student.

**STAIR SCHOOL** A univ. primary sch. has been establd. It is proposed that a univ. sec. school will be built in the near future.

**UNIVERSITY BOOKSHOP** The Univ. Bookshop (Nigeria) Ltd., Ibadan (see p. 793), at present runs a branch bookshop in the univ. Plans are almost complete to register the Univ. of Nigeria Press, Ltd., which would undertake the printing, buying and selling of books, together with binding and publishing.

**PUBLICATIONS** *Souvenir Brochure*, *Installation of Chancellor, 1961*; *Handbook for Prospective Students* (28), annual; *Prospectus*, annual.

## THE YEAR 1961

The installation of the 1st life chancellor, H.E. the Rt. Hon. Dr. N. Azikwe, governor-general of the Fed. of Nigeria, took place in the Sir Francis Ihum stadium in Dec. 1961.

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed: admin. block; central kitchen & dining rooms; block of lecture rooms; sci. block, library block; 9 coll. blocks, univ. engineer's block; 115 or staff quarters; 60 p. staff quarters, mod. sewage farm; temp. students' union, temp. health centre; playing fields for soccer, cricket, hockey, athletics and 12 lawn tennis courts.

**HONORARY DEGREES** DLit—H.E. the Rt. Hon. N. Azikwe, governor-general of Fed. of Nigeria, chancellor of Univ. of Nigeria, Dr. W. L. Hansberry, assoc. prof., dept. of hist., Howard Univ., LL.D.—Dr. M. I. Okpara, premier of eastern Nigeria, natl. pres. of Natl. Council of Nigeria and Cameroons; Sir Ahmadu Bello, Sardauna of Sokoto, premier of northern Nigeria, natl. leader of Northern Peoples Congress, Chief the Hon. O. Awolowo, leader of opposition in fed. legislature, natl. leader of Action Group

Party; Dr. M. J. Gordon, regional dir. for Africa and Europe, Internat. Co-operation Admin., DD—Rt. Rev. S. O. Odutola, anglican bishop of Ibadan, DLit—Bishop J. C. Ayoagba, roman catholic auxiliary bishop in archdiocese of Onitsha, DSc—Dr. J. Harcourt, pres., Mich. State, Sir Eric Ashby, master, Cline Coll., Camb., Dr. J. W. Cook, vice-chancellor, Ede.

### Statistics

STUDENT NUMBERS, 1961-62		
	Full-Time	Part-Time
Men	982	—
Women	82	—
Total	1064	—

Distribution by Faculties. *Arts*, 225; *sci*, 230; *sec. studies*, 339; *technol*, 270. Total: 1064.

Included in the figures above are:—

Postgraduate students, nil

New admissions, 630

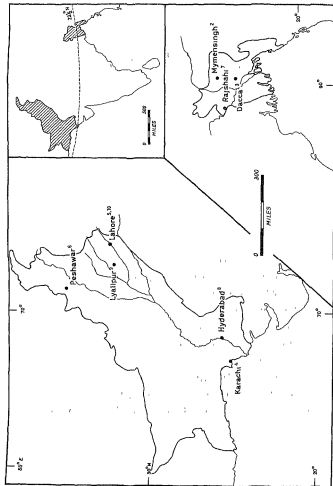
Students from other countries, 17.



# PAKISTAN

- 1 University of Dacca (p. 811)
- 2 East Pakistan Agricultural University (p. 818)
- 3 East Pakistan University of Engineering and Technology (p. 820)
- 4 University of Karachi (p. 822)
- 5 University of the Panjab (p. 827)
- 6 University of Peshawar (p. 835)
- 7 University of Rajshahi (p. 840)
- 8 University of Sind (p. 844)
- 9 West Pakistan Agricultural University (p. 848)
- 10 West Pakistan University of Engineering and Technology (p. 850)





*The places named in block type are the seats of the university institutions numbered overlaid*

# THE UNIVERSITIES OF PAKISTAN

[Specially contributed for this edition by Dr. I. H. Qureshi, Vice-Chancellor, University of Karachi]

**HISTORY.** One of the earliest civilizations in history blossomed in the Indus valley, which has remained a centre of culture throughout the ages. There is no record, however, of the development of colleges until the second century. Archaeological remains point to the development of a system of colleges for the education of monks—and, perhaps, of some selected sections of the laity as well—attached to the Buddhist monasteries. A group of such colleges existed near and around Takshashila (better known as Taxila), which became a famous centre of learning and maintained its pre-eminence up to the fifth century of the Christian era. The tradition of colleges attached to monasteries, however, continued right up to the conquest of Sind by the Arabs in the beginning of the eighth century. The Arabs built townships with schools and colleges, and Sind produced some noted scholars during Arab rule. The Arab rule was subverted by the Islamites under whom Multan rose to be a famous seat of learning. It maintained its reputation but its famous colleges declined under Sikh rule in the nineteenth century. The establishment of the Ghaznavid dynasty in the eleventh century at Lahore made it even more famous than Multan. Under Mongol pressure in the thirteenth century Lahore lost considerably its importance. It, however, began to revive with the conversion of the Mongols to Islam and the cessation of their raids. Under the Moghuls Lahore once again became famous for its learning.

With the establishment of Sikh rule, Muslim learning began to decay and it languished under the British for want of encouragement and also because a knowledge of English was considered necessary for employment by the government. The East India Company did not pay much attention to higher education in the sub-continent and it was not until 1857 that universities were established at Calcutta, Madras and Bombay. The influence of Calcutta was slow to permeate the hinterland of East Bengal (now East Pakistan) except among the élite of Hindu landlords who had prospered under the permanent settlement of Bengal (1793). Within the territories now constituting Pakistan the first university was established by the British in 1882 at Lahore, followed by another at Dacca in 1921. The University of Sind received its charter in 1927 and was in the process of organisation when Pakistan came into existence. With independence came a new consciousness of the importance of education so that new universities came to be established. To-day,

apart from the universities of the Punjab (at Lahore), Dacca and Sind (at Hyderabad), the country possesses the universities of Peshawar (established in 1950), Karachi (1959), Rajshahi (1953), the West Pakistan Agricultural University at Lyallpur (1961), the West Pakistan University of Engineering and Technology at Lahore (1961), the East Pakistan Agricultural University of Mymensingh (1961) and the East Pakistan University of Engineering and Technology at Dacca (1961).

**STRUCTURE.** When the universities were first established under British rule they were of an affiliating type. A vast sub-continent, even though higher education was only thinly spread, could not be adequately served by three universities. Therefore a number of colleges were established in scattered towns which taught up to the university standard. The main function of the universities was to maintain a uniform standard in the areas under their respective jurisdictions through common syllabuses and examinations. All colleges in that area were affiliated to a university which laid down the courses of study and conducted the examinations. In fact the earlier universities were little more than examining bodies. Pakistan universities have still not been able to shed the exaggerated importance attached to examinations. The next development was that the universities began to develop their own teaching departments; in particular, Dacca was originally established as a teaching university. To-day, but for the two agricultural and two engineering universities, which are purely teaching universities, all universities in Pakistan are both teaching and affiliating bodies. The structure, however, varies considerably. All honours and postgraduate teaching at Karachi is, for instance, concentrated in the university departments of instruction but professional and pass teaching is done by affiliated colleges. This, however, is by no means a common feature, because Peshawar imparts education in professional subjects through its constituent colleges and postgraduate instruction through its teaching departments. As a matter of fact, because of the complexity of the structure of Pakistani universities, a new terminology has developed. Apart from their own departments under the direct control of the university, each university has some institutes, which are financed by the university, but have separate boards of governors, with a certain measure of autonomy. Then there are constituent colleges which are really combinations

of certain cognate departments. Each unit is under an administrative head, called a principal, and is run like a college but is nevertheless under the full financial, administrative and academic control of the university. An affiliated college is run either by the government or some philanthropic body, and the university is concerned only with the maintenance of standards through the prescription of the syllabuses and the organization of a common examination. The university also ensures that adequate facilities in the way of qualified teaching staff, buildings, libraries and laboratories are available. The university can disaffiliate a college if it feels that standards are not maintained, and because degrees awarded by unauthorized bodies are not recognized this vests universities with effective authority. There is a tendency on the part of the government to delegate its control over government colleges to boards of governors of which the vice-chancellor is invariably a member and sometimes the chairman so that the control of the university is now being felt even in the internal affairs of some colleges. Universities send teams of inspection to keep themselves informed about conditions in affiliated colleges and sometimes appoint representatives on their boards of governors.

**RELATIONSHIP TO GOVERNMENT.** The Punjab University was established in 1882 by an act of the imperial legislative council. Karachi University was established by an act of the central legislature. All other universities were established by acts of provincial legislatures. In view of the sweeping changes in the educational structure recommended by the Commission on National Education in 1959 it was considered necessary to change the acts incorporating the universities on a more or less uniform basis. Except for Karachi, whose constitution was amended by the central government, the other acts were amended by the provincial governments. This was done by ordinances because at that time legislatures were not functioning. All universities are corporate autonomous bodies. All statutes framed by the universities are, however, subject to sanction by the provincial government. Ordinances are subject to sanction by the chancellor.

**FINANCE.** The annual grants made by provincial governments through their education departments constitute the main source of income of all the universities. University accounts are strictly audited by the accountants-general of the provincial governments. During the last few years, the government of Pakistan have accepted the principle of making direct grants for various schemes submitted to them by the universities from time to time. The ratio of government grant to total budget varies from one university to another, but the general pattern seems to be that government grants amount to more than one-half of the total annual income, the remaining income coming from such other sources as tuition fees, examination fees and fees for the registration of graduates.

**CONSTITUTION.** Every department of study has a departmental committee, comprising senior teaching staff and a few external experts chosen from amongst scholars of reputation in the subjects. The affiliated and constituent colleges are represented on these committees. The most senior teacher is the head of the department. In some universities there are faculties to co-ordinate the work of various departments. The faculties headed by their respective deans consist of the heads of departments, professors and readers in the subjects which constitute the faculty, and a few scholars who are not on the teaching staff of the university. Generally the faculty is headed by a dean. Some universities have dispensed with the institution of faculties and deans. The highest academic body is the academic council, which consists of all professors, readers, some principals of affiliated colleges and a few distinguished scholars in various fields. The executive authority of the university vests in a syndicate or executive council, representing senior teachers, registered graduates and some other distinguished persons. The chairman of the academic council and the syndicate or the executive council is the vice-chancellor, who is the real academic and executive head of the university. The vice-chancellor is appointed for a period of four years and there is no bar against his re-appointment. The provincial governor is the chancellor. In addition there are certain other bodies which have an advisory capacity as, for instance, the finance committee, which draws up the budget for consideration by the syndicate. Proposals having financial implications are first examined by the finance committee before they go to the syndicate. All proposals for new departments and buildings go to the planning and development committee. The teaching staff is appointed by the syndicate on the recommendation of a selection board. If the selection board and syndicate do not agree on the suitability of a candidate the matter is referred to the chancellor for final decision.

**ADMISSION, STRUCTURE OF DEGREE COURSES, ETC.** Students are admitted to university classes after they have passed their higher secondary or intermediate examination, which is held after twelve years of post-kindergarten teaching. The BA or BSc degree (both pass and honours) can be taken after three years of study in a university or an affiliated college. The bachelor's course is divided into three parts and examination for each part has to be taken separately with a minimum period of one year intervening between one examination and another. An honours graduate can take the master's degree in one year. Pass graduates, however, have to spend an additional year and take a previous examination before they can proceed to the final examination for the master's degree. The PhD course lasts generally for two to three years after a good master's degree. The period for taking professional degrees varies from one subject to another. A bachelor's degree

in engineering generally takes four years, and in medicine five years after admission for which the minimum requisite is intermediate science. A bachelor's degree in education (BT or BEd) takes one year after a bachelor's or master's degree in arts or science and a master's degree takes two years after bachelor in education. A bachelor's degree in law takes two years after a bachelor's degree in arts, science or commerce.

English is the medium of instruction in all universities and colleges. There is, however, an Urdu College affiliated to the University of Karachi which teaches all subjects up to the bachelor's level through the medium of Urdu. A few other colleges teach humanities and social sciences through this medium.

**TEACHING STAFF.** The teaching staff is divided into the categories of professors, readers and lecturers. The University of Karachi has a category of instructors as well. Most universities also have demonstrators where laboratory work is needed. The scales of pay vary, but not much, from university to university. Professors are paid in the scale of Rs. 800/600-90-1250-EB-1300-75-1750. Readers begin at Rs. 600 and go up to Rs. 1150, senior lecturers between Rs. 300 and Rs. 350 rising to Rs. 840 and Rs. 970; junior lecturers, instructors and demonstrators Rs. 250 rising to Rs. 400 or Rs. 450 per month. Vacant teaching posts are filled by advertisement in newspapers in Pakistan and abroad, if necessary. Candidates for appointment are chosen by a selection board consisting of nominees of the academic council, the syndicate and the chancellor, which is required to consult experts whose list is previously approved by the chancellor. The syndicate makes all appointments. Teachers of foreign nationality can be appointed. However, their number is extremely small. Most teachers possess research degrees, and now some universities insist that applicants for posts of lecturers must possess a research degree. Many teachers have higher degrees from Europe, the United Kingdom or the United States of America. The retiring age in most universities is 60 years. After retirement teachers do not get a pension, but contribution by the teacher as well as the university to a provident fund is compulsory. Teachers are often granted study leave for a period of two to three years. Teaching is done through lectures, seminars, tutorials, laboratory work and field surveys, but lectures predominate, especially in the arts subjects. The report of the Commission on National Education has laid marked emphasis upon research by individual university teachers.

**STUDENTS.** In recent years the number of applicants for admission to university courses has increased several fold, but because of the inadequacy of staff and equipment and accommodation, not all of them can be accommodated. So candidates are selected chiefly on merit, but distinction in sports and extra-curricular activities

are also taken into consideration. The pressure of students in the professional colleges is especially heavy. The total number of undergraduate students in the academic year 1960-61 was 32,128, and the total enrolment 49,023. Postgraduate students in arts, science and commerce during 1960-61 totalled 3979, students registered for M.Litt and PhD courses were 24 and 90 respectively; the figures for professional and diploma courses were 12,184 and 775 respectively. About 150 foreign students were registered in the Pakistan universities in 1960-61, mainly at Panjab and Karachi.

Most students enter the university when they are 17 or 18 years old. All the degree courses at the universities and most of the diploma courses are full-time courses, requiring registration and regular attendance, but some colleges and university departments also offer evening courses, mainly in languages, law, commerce, business administration and library science. The general level of fees is almost uniform and amounts to approximately £15 a year. Decca, Karachi, Panjab and Peshawar have halls of residence, but Rajshahi and Sind also run a few hostels. The percentage of students residing at university hostels varies from place to place. Decca has the highest (approximately 50 per cent) and Rajshahi the lowest (8 per cent); the figures for other universities are: Panjab 32 per cent, Sind 27 per cent and Karachi and Peshawar 10 per cent each. The cost of residence is about £50 per academic year.

Many universities provide student health service and counselling. Some universities have advisors to overseas students. The residential halls are under provost and resident tutors or wardens. Some universities have placement or information bureaux through which they advise their students in seeking employment or admission to foreign universities. On an average universities give 'freeships' to 10 per cent. of the students on their rolls and also give merit or other scholarships from their own resources. The governments also provide a number of scholarships which are awarded on the recommendations of the universities. Some philanthropists also subscribe to the scholarship funds of the universities. There is hardly any vacation employment. Students' unions and societies for extra-curricular activities exist in all universities and colleges.

**ACADEMIC YEAR.** Because of marked differences in the climate of the different parts of the country, the terms and vacations vary from university to university. At Decca and Rajshahi, the academic year begins in July, at Karachi and Sind in the middle of August, and in the Panjab and Peshawar in the beginning of September. The academic year is split into three terms in all the universities, the first and second, and the second and third terms being separated by a recess of fifteen days. The long vacation generally comprises three months and immediately precedes the academic year. Summer courses are not offered anywhere,

but teachers' seminars are organized during the summer vacations.

**INTER-UNIVERSITY ORGANIZATIONS** The Inter-University Board of Pakistan, constituted in 1948 by the Ministry of Education, Government of Pakistan, consists of three members from each university, one being the vice-chancellor and the other two nominees of the syndicate or the executive council (one of these nominees must be the principal of an affiliated college or the head of a teaching department). The chairman and the secretary of the board for 1963 are respectively Mohammad Ali, BA LLB, Vice-Chancellor, University of Peshawar, and Professor K. M. Hossain, MA Abg, BA Oxon (42 W, P.E.C.H.S., Block 6, Karachi 29, West Pakistan).

There is also a Standing Committee of Vice-Chancellors with well-defined powers. All the vice-chancellors are members *ex officio* of the Inter-University Board; the two other nominees of each university retire annually and are replaced by new nominees. The educational adviser to the government of Pakistan has the right to attend meetings of the board, but has no power to vote.

The Inter-University Board created in 1953 an Inter-University Sports and Athletic Board which is responsible for organizing sports and athletics on a national basis.

The Inter-University Board has set up a seminar organization which organizes seminars and discussions for six weeks every year during the vacations. The seminar has a number of conductors who are senior teachers in the various disciplines and a number of participants who are generally younger teachers in those subjects. The intention is to provide a forum where the younger teachers may benefit from the knowledge and experience of senior teachers. A number of conductors are invited from foreign countries.

A National Union of Students was formed in 1958.

**COMMISSION ON NATIONAL EDUCATION** The government of Pakistan appointed a Commission on National Education in 1958. Its report, presented in 1959, was accepted *in toto* by the government and an implementation unit was set up to ensure the implementation of the commission's recommendations. In pursuance of these recommendations, the intermediate classes were taken out of the control of the universities and handed over to boards of higher secondary and intermediate education, thus raising school education from ten to twelve years of post-kindergarten schooling. A programme of putting up new buildings to effect bifurcation has been undertaken and is well under way. Where physical bifurcation has yet not been possible, a separation of the administrative and teaching staff has taken place and special efforts are being made to improve standards of teaching and encourage research. The beneficial nature of the reforms is beginning to be felt though it will take some time before it has full impact upon higher education in Pakistan.

**THE UNIVERSITIES TO-DAY.** As a result of the recommendations of the Commission on National Education which have been accepted by the government of Pakistan (see above), a greater uniformity has been achieved in the organization and standards of the universities in Pakistan. An internal evaluation system has been introduced, by which tutorials and terminal examinations are given one-fourth weightage in the assessment of the final grade of the student. The establishment of two technical universities and two agricultural universities indicates a new approach to technical education. Some of the other universities, however, still maintain their departments or colleges for technology and agriculture. The total expenditure on education has gone up steadily from Rs. 226,728,000 in 1959-60 to Rs. 264,206,000 in 1960-61. It was further raised to Rs. 625,200,000 in the year 1962-63.

The universities are secular, teachers and students pursue their studies and research in an atmosphere of academic freedom unrestricted by any political or theological restriction.

**INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES.** In addition to the universities there are learned bodies like research organizations and professional associations which carry on programmes of research. The Central Institute of Islamic Research, the Pakistan Historical Society, the Institute of Development Economics, the Pakistan Institute of International Affairs, Pakistan Association for the Advancement of Science, the Scientific and Industrial Research Laboratories, the Atomic Energy Commission, Urdu Development Board, Bengali Academy, Iqbal Academy and various other bodies are engaged in research in their respective fields. Some of these recruit young men with master's degrees and train them in techniques of research. They are, however, not degree-giving institutions.

**FURTHER INFORMATION** (see also the 'Publications' section in each university entry below). Apart from the *Commonwealth Universities Yearbook*, the following handbook and official reports may be consulted.

*Handbook of the Universities of Pakistan, 1955-56* (Inter-University Board of Pakistan, 1956).  
*Report of the Commission on National Education* (Government of Pakistan Press, Karachi, 1960).

Other publications of the government of Pakistan:

*The First Five Year Plan (1955-60)*. Education & Training (1956).

*The Second Five Year Plan (1960-65)*.

*The Six-Year National Plan of Educational Development of Pakistan*, Part I (1961).

*Proceedings of the Pakistan Educational Conference held on November 27, 1947, at Karachi*.

*Minutes of the Council of Technical Education for Pakistan, 1948*.

*Report of the Agriculture and Veterinary Education Committee, 1950.*  
*Proceedings of the Advisory Board of Education for*

*Pakistan* (published from time to time by the Ministry of Education, Government of Pakistan).

## DIRECTORY TO SUBJECTS OF STUDY

The following subjects in arts, commerce and science may be studied at the universities of Dacca, Karachi, Panjab, Peshawar, Rajshahi and Sind in the affiliated colleges for first degrees and in the university departments for honours, master's and research degrees—

**Arts** Arabic, Bengali, economics, English, general history, geography, Islamic history, Islamic studies or Islamism, mathematics, Persian, philosophy, political science, psychology, theology and Urdu.

**Commerce** (except Peshawar) BCom and MCom degrees are awarded by Dacca, Panjab, Rajshahi and Sind; Karachi awards a BCom and an MBA. These courses include the following subjects: accounting, advertising, banking, business administration, business finance, industrial management, industrial relations, cost accounting, sales promotion, statistics and transportation.

**Science** Biology, botany, chemistry, mathematics, physics and zoology.

The following *Research Degrees* are awarded in accordance with the ordinances of the universities: Dacca: Ph.D. in arts or science, DLitt, DSc. Karachi: M.Litt, Ph.D. in arts or science. Panjab: Ph.D. in arts or science, DSc, DLitt, DOL. Peshawar: Ph.D. in arts or science. Rajshahi: Ph.D. in arts. Sind: DPhil, DEd.

The following subjects cannot be studied at all the universities and the existing provisions for their teaching are outlined below—

**Agriculture** E. Pakistan Agricultural University, Peshawar, Sind, W. Pakistan Agricultural University. The two agricultural universities, and Sind also, offer postgraduate degree courses.

**Animal Husbandry.** Dacca, E. Pakistan Agricultural University and Panjab award a BSc in animal husbandry. See also 'Veterinary Science', below.

**Antonomy** A BSc pass and honours is awarded by Panjab.

**Basic Medical Sciences.** A master's degree is awarded by Karachi.

**Biochemistry.** Dacca awards an MSc.

**Business Administration** Karachi awards the degree of master of business administration.

**Chemical Technology.** Panjab awards a BSc and MSc honours.

**Dentistry** is taught as a part of the MB BS course at most universities. Panjab offers special courses in dentistry leading to BDS and MDS.

**Education** Dacca, Peshawar and Sind award a bachelor of teaching, Karachi and Panjab a bachelor of education and Rajshahi a diploma in education. The MEd is awarded by Dacca, Karachi, Panjab and Sind. Sind also awards a DEd.

**Engineering and Applied Sciences** Karachi and Peshawar and the two engineering universities provide courses leading to degrees in civil, electrical and mechanical engineering. In addition, diploma courses are provided by W. Pakistan Engineering University and Karachi.

**Fine Arts** Panjab awards an MA.

**Physics** Sind awards an MSc.

**Foreign Languages.** Certificate and diplomas in French and German are awarded by the universities of Dacca and Panjab, a diploma in Russian by Panjab, and certificates in French, German, Spanish and Italian by Karachi.

**Forestry.** Peshawar awards a BSc with hon.

**Geology** Dacca, Karachi and Panjab award honours and master's degrees.

**Home Economics.** Karachi, Panjab and Peshawar award a bachelor's degree. An MSc is awarded by Panjab. Karachi awards an MHE.

**International Relations.** An MA in international relations is awarded by Dacca and Karachi while Panjab offers a postgraduate diploma in the subject.

**Journalism** Karachi and Panjab award an MA.

**Law.** An LLB is awarded by Dacca, Karachi, Panjab, Peshawar, Rajshahi and Sind. Panjab also awards an LL.M and LL.D.

**Library Sciences.** Dacca and Karachi award an MA, and Panjab a diploma in library science.

**Medicine** An MB BS is awarded by Dacca, Karachi, Panjab, Peshawar, Rajshahi and Sind. Panjab provides special courses leading to diplomas in public health, medical radiology and electrology, anaesthesia, DLO (diploma in laryngology and otology) and TDD (diploma in tuberculous diseases). Panjab also awards a

master of surgery (MS) and doctor of medicine (MD). A condensed MB BS course is offered by Karachi.

*Microbiology.* An MSc is awarded by Karachi.

*Mining.* A BSc in mining engineering is awarded by the W Pakistan University of Engineering and Technology.

*Oriental Learning.* Punjab awards a BOL, MOL and DOL in oriental learning.

*Pharmacy.* Punjab awards a bachelor's degree.

*Social Work.* Karachi and Punjab award an MA. Dacca awards an MA in social welfare.

*Sociology.* An MA is awarded by Dacca, Karachi and Punjab.

*Soci Science.* Dacca awards honours and MSc degrees.

*Statistics.* An MA is awarded by Dacca and Punjab.

*Veterinary Science.* Dacca awards an LVS (licentiate in veterinary science), and E. Pakistan Agricultural University a BSc(VetSc). *See also* 'Animal Husbandry', *above*.

# UNIVERSITY OF DACCA\*

Founded 1921

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VISITOR—THE PRESIDENT OF THE REPUBLIC OF PAKISTAN (*ex officio*)  
CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (*ex officio*)  
VICE-CHANCELLOR—M. HUBAIN, PhD *Head*.  
TREASURER—S. M. ALI, BSc  
REGISTRAR—A. H. TALUKDAR, MA *Lead* & *Dacca*  
DEPUTY REGISTRAR—N. AHMAD, BA  
LIBRARIAN—M. S. KHAN, MA BL, FRHistS

## TEACHING STAFF

(† = Part-Time)

### Arabic and Islamic Studies

Haque, S., MA PhD *Lead*.  
.....  
Rahim, S. A., MA BE BT  
Isaquo, M., MA PhD  
Rahman, K. M. A., MA BT  
Hasan, M. S., MA DPhil Oxon. (on leave)  
Sadeque, Mrs. S. Fatima, MA PhD *Lead*  
.....  
Rahmans, A. A., MA  
Ahmed, Z., MA

Jamil, S. A., MSc  
Elkannoddeullah, MSc

Fellow  
Fellow

### Botany

Ahmed, M., MSc PhD *Camb.*  
Huq, A., MSc PhD *Lead*.  
Islam, A. K. M. N., PhD *Shih*, MSc  
Khan, M. S., MSc *Alg* (on leave)  
Ismail, M., MSc  
Khan, S. A., MSc *Lead*.  
Khan, Md. A. A., MSc (on leave)  
Jalaluddin, Md., MSc  
Ahmed, N., MSc  
Rahman, A., MSc  
1 Lab. Asst.

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Bengali and Sanskrit

.....  
Hse, M. A., MA *Lead* & *Dacca*  
Muhammad, K. D., PhD *Lead*, MA  
Choudhury, A. N. M. M., MA *Haru* & *Dacca*  
.....  
Chowdhury, M. H., MA  
Sharif, A., MA  
Ibrahim, Mrs. Nilima, MA PhD  
Tagore, R. G., MA  
Kantha, S., MA  
Amuzman, A. T. M., MA PhD  
Bachspati, K.  
Chakrabarty, B.

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Chemistry

Khundkar, M. H., MSc PhD *Lead*.  
Ahmad, M., MSc PhD *Pass*  
Hyder, S. Z., PhD *Lead*, MSc  
De, S. C., DSc  
Bhuyan, A. M., MSc  
Bhuyan, A. S. M. N. H., MSc  
Nawab, A., PhD *McG*, MSc  
Rahman, A., PhD *Lead*, MSc  
Haque, M., PhD *McG*, MSc  
Nabe, S. N., MSc PhD *Camb.*  
Khorasani, G. S. M., MSc  
Haque, K. E., MSc  
Zaman, A. K. H. A., MSc  
Mahmood, A. J., MSc  
Iqbal, Z., MSc  
1 Lab. Asst.

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Fellow

### Biochemistry

Ahmad, K., MSc PhD *Vir.*  
Jabbar, A., MSc PhD *Lead*  
Alem, S. A. K. M. N., MSc (on leave)  
Khan, M. N. H., MSc PhD *Off.*  
Rahman, M., MSc PhD *Tenar*  
Purkayastha, A. R.

Reader  
Reader  
Lectr.  
Lectr.  
Fellow

\* Member of the Association of Universities of the British Commonwealth



**Commerce**

Hussain, A. F. A., MA MSc(Econ) <i>Leads</i>	Prof
(on leave)	Prof
Safullah, M., MA Calc., BCom <i>Leads</i>	Reader
Farooq, A., MA Calc., PhD	Reader
Shahadattullah, A. H., MCom	Lectr
Quddus, R., MCom	Lectr
Habibullah, M., MCom	Jr. Lectr.
Haque, W., MA	(on leave) Jr. Lectr.
Baqer, A. A. M., MCom	Temp Lectr
Malek Mian, A., MCom	Temp Lectr.
Rahman, M. M., MCom	Temp Lectr.
Sabhan, K. M., MA LLB	† Lectr.
Khan, A. U., MCom	† Lectr.

**Economics**

Huda, M. N., PhD <i>Comm.</i> , MA	Prof
Isham, N., MA PhD <i>Comm.</i>	Prof
Huq, M., PhD <i>Leads</i> , MA	Reader
Mahmood, A. N. M., PhD <i>Comm.</i> , MA <i>Comm. &amp; Econ.</i>	(on leave) Lectr.
Dhar, H., MA Calc.	Lectr.
Ali, S. N., MSS <i>Inst. for Soc. Studies</i>	
(The Hague), MA	Lectr.
Sabhan, R., BA <i>Comm.</i>	Lectr.
Ahmad, A. S. M. M., MA	(on leave) Lectr.
Ahmad, M., MA	(on leave) Lectr.
Hussain, K. T., MA PhD	Jr. Lectr.
Ahmed, F. U., MA	Temp. Lectr.
Ahmed, S., MA	Temp. Lectr.
Isham, A. B. M., MA	Temp. Lectr.

**English**

Hussain, S. S., MA PhD <i>Notr.</i>	Prof.
Murshid, K. S., PhD <i>Notr.</i> , MA	Reader
(on leave)	Reader
Gomes, R. A., MA	Lectr.
Thakur, J. C., MA	Lectr.
Roy, B. C., MA	Lectr.
Munim, K. M. A., MA	Lectr.
Crowdhury, A. F. S. I., MA	Lectr.
Karim, M. E., MA	Temp Lectr
Haque, M. A., MA	Temp Lectr.
Huq, Mrs. Husinara, MA	Lectr
Khan, Mrs. Razia, MA <i>Birm. &amp; Econ.</i>	Lectr
Hana, A., MA	Superannuated Teacher
Hani, M. A., MA	Temp Fellow

**Geography**

Ahmad, N., MA PhD <i>Leads</i>	Prof
Rizvi, A. I. H., MA <i>Alg.</i> , PhD <i>Leads</i>	Reader
Khan, F. K., MA <i>Alg.</i> , PhD <i>Leads</i>	Lectr.
Nazki, S. H. H., MA <i>N. Carolina</i>	
(on leave)	Lectr.
Huq, Md. F., MA PhD	Lectr.
Huq, M. A. Q. L., MSc	Lectr.
Isham, M. A., MSc	(on leave) Lectr.
Rashid, K. B. S., MA	Lectr.
Wahed, A. N., MSc	Lectr.
Masood, M., MA	Fellow
† Cartographer	Fellow

**Geology**

Latif, M. A., MSc Calc., PhD <i>Leads</i>	Reader
Ahmed, S. N., MSc	Lectr.
Wahab, M. A.	† Lectr.
Haque, M., MSc	Fellow
Hussain, T., MSc	Fellow
† Damr.	

**History**

Hahn, A., MA PhD	Prof.
Dani, A. H., MA PhD <i>Leads</i>	Reader
Khan, M., MA PhD <i>Leads</i>	Reader
Sayed, A. F. M., MA	Lectr.
Bhattacharyya, S. C., MA	Lectr.
Rahman, W., BA <i>Comm.</i> , MA	Lectr.
Khan, A., MA PhD	(on leave) Lectr.
Khalid, M. A., MA	Lectr.
Ali, M. M., MA	(on leave) Lectr.
Ahmad, G., MA	Temp Lectr.
Aghar, G. A., MA	Temp. Lectr.
Choudhury, A. M., MA	Fellow
Nasiruddin, A. Z. M., MA	Fellow

**International Relations**

Huda, M. N., MA PhD <i>Comm.</i>	Prof.
Aziz, M. A., MA PhD <i>Leads</i> , MSS <i>Inst. for Soc. Studies</i> (The Hague)	(on leave) Reader
Siddiqua Huda, Mrs. - Umamkulam,	
MA <i>Calc. &amp; Econ.</i>	Lectr.
Khan, R. A., MA	(on leave) Lectr.
Yusuf, S. S., MA	Temp. Lectr.
Khan, Mrs. F., MA	Temp. Lectr.
Seurrahofel, M. G.	(German) Teacher
Rouch, M.	(French) Teacher
Vorys, Prof. K. V.	Fulbright Scholar

**Islamic History and Culture**

Habibullah, A. B. M., MA Calc., PhD	
Diplab <i>Leads</i> , FLA	Prof.
Imamuddin, S. M., MA DPhil Calc.	
(on leave)	Reader
Khan, A. M., MA Calc.	Lectr.
Isham, M. S., MA Calc., PhD <i>Beri.</i>	Lectr.
Karim, M. R., MA Calc.	Lectr.
Tarafdar, M. M. R., MA PhD	Lectr.
Ali, A. K. M. A., MA	Temp. Lectr.
Ahmed, Mrs. Sufia, MA PhD <i>Leads</i>	Fellow
Rahman, M. M., MA	Fellow

**Law**

.....	Sr. Prof.
Siddiqui, N. U. A., MA BCL. <i>Oxon.</i>	
LLD <i>Dub.</i>	Prof.
Momen, M. N., BL Calc.	Lectr.
Kabir, L., LLB	Lectr.
Sahabuddin, M., LLB <i>Comm. &amp; Calc.</i>	Lectr.
Qumruddin, K. A. A., LLB	Lectr.
Khan, A., MA LLB	† Lectr.
Khondkar, A. B., LLB	† Lectr.
.....	† Lectr.
Sabhan, A.	† Lectr.
Rahman, S. M. S., MA	† Lectr.

Ahmed, M. U., MA LLB  
 Haque, S. M. H.  
 Qasbi, A. H. M. A., LLB  
 Ahmad, S. I.  
 Kabir, C. M. H., LLB  
 Kamal, M.

† Lectr. Ali, M. H., MSc  
 † Lectr. Mannan, K. A. I. F. M., MSc  
 † Lectr. Saragi, J. K., MSc  
 † Lectr. Roy, N. N., MSc  
 † Lectr.

Fellow  
 Fellow  
 Fellow  
 Fellow

Political Science

Mathematics

Huq, S. M. A., MSc PhD Lond  
 Rahman, M., MA PhD McG.  
 Khalifa, A. R., MSc Calc  
 Sardar, R. A., BA Camb, MSc  
 Huq, M. Shamsud, MA MSc  
 Hussain, D., MSc (on leave)  
 Rahman, A. F. M. A., BSc Lond  
 Rahman, M., BA Camb MSc  
 Sadeque, P. I., MSc  
 Gaffur, A., MSc (on leave)  
 Rahman, A. R. M., MA  
 Sahrabuddin, S., MSc  
 Shabbadullah, A. M. M., MSc

Prof. Chowdhury, G. W., MA PhD Col  
 Reader Chowdhury, M. A., MA PhD Lond  
 Lectr. Rahman, M., MA  
 Lectr. Razzaq, A., MA  
 Lectr. Ali, S. M. M., MA  
 Lectr. Mush, N. M., MA  
 Lectr. Noorazaman, A. H. M., MA (on leave)  
 Lectr. Rashiduzzaman, M., MA  
 Lectr. Ahmad, M., MA PhD  
 Lectr. Huq, M. O. S., MA  
 Temp. Lectr. Tajwar, A. R., MA  
 Temp. Lectr. Abedin, S. N. M. Z., MA  
 Temp. Lectr. Tayyel, M. A., MA  
 Fellow

Sanskrit, see Bengali

Persian and Urdu

Shadani, W. H. A., MA Pamp., PhD Lond.  
 Huda, M. Z., MA Patna  
 Chowdhury, A. M. F. A., MA  
 Siddique, A. A., MA PhD Alg.  
 Fausi, M. H. Q., MA  
 Ahmad, M., MA

Prof. Kaum, A. K. N., MA Col. (on leave)  
 Lectr. Afzaruddin, M., MA Mich.  
 Lectr. Sa-shuddin, K. A. M., MA  
 Lectr. Naq, S. A., MA  
 Lectr. Owen, Dr J. E.  
 Lectr. Langerhans, H.  
 Lectr. Khan, F. R., MA  
 Fellow

Sociology

Philosophy

Jilani, G., MA PhD Lond.  
 Deb, G. C., MA PhD Calc.  
 Fakhruzzaman, M., MA  
 Rob, M. A., MA  
 Martin, A., MA  
 Roush, O. V., MA Col.  
 Khan, N. N. M. B. A., MSc Roy  
 Abdur Rahman, A. K. M., MA  
 Abdur Rashid, M., MA

Prof. Ghani, M. O., PhD Lond., MSc (on leave)  
 Lectr. Karim, A. Q. M. B., MSc Alg., PhD Lond.  
 Lectr. Huq, A. K. M. F., MSc PhD McG.  
 Lectr. Karim, A., MSc PhD Adel.  
 Lectr. Majlish, M. A. K., MSc  
 Lectr. Chowdhury, M. S., MSc  
 Lectr. Bhuiya, M. Z. H., MSc  
 Lectr. Ali, H., MSc  
 Lectr. Islam, A., PhD Mich., MSc  
 Lectr. Ahmed, Z. U., MSc  
 Lectr. Anwar, K., MSc  
 Lectr. Amanullah, M., MSc  
 Lectr. Shafi, M., MSc  
 Lectr. Hossain, S., MSc  
 Lectr. i Lab. Asst.

Soil Science

Physics

Ali, I., MEE N. Y., MSc PhD Lond  
 Chowdhury, A. M., MSc PhD Lond.  
 FRMetS  
 Rahman, S. M. F., MEE Purdue, MSc  
 Biswas, S. C., MSc  
 Huq, M. S., MSc McG & Dacca  
 Emron, M., MSc  
 Siddiq, A. K. M., PhD Sask., MSc  
 Hussein, M. A. M., PhD Lib., MSc  
 Ahmad, S., MSc  
 Islam, M., MSc (on leave)  
 Sen Gupta, H., MSc (on leave)  
 Kamal, A. N., MSc (on leave)  
 Harun-ul-Rashid, A. M., PhD Glas., MSc  
 Roy, A. K., MSc  
 Islam, M. S., PhD Leeds  
 Haque, M. B., PhD Alabama, MSc  
 Chowdhury, A. L., MSc PhD Berl  
 Begum, Mrs. Q. N., MSc PhD Leeds

Prof. Anwar, K., MSc  
 Reader Amanullah, M., MSc  
 Reader Shafi, M., MSc  
 Lectr. Hossain, S., MSc  
 Lectr. i Lab. Asst.

Statistics

Hussain, Q. M., MA Calc., PhD  
 Supernumerary Prof. Maniruzzaman, A. N. M., MSc  
 Reader Atiqullah, M., MA PhD (on leave)  
 Lectr. Obaidullah, M., MSc  
 Lectr. Qasbi, A. M., MA  
 Lectr. Ahmad, M. M., MSc  
 Lectr. Mostafa, M. G., MSc  
 Lectr. Razza, Mrs. Syed, MSc  
 Lectr. Samiuddin, M., MSc  
 Lectr. Ahmad, M. U.

Urdu, see Persian

### Zoology

Yousufali, H. K., MSc DPhil *Alld.*,  
PhD Qu. Reader  
Shafiq, S. A., MSc *Alld.*, DPhil Oxon  
(on leave) Lectr

Hussain, K. Z., BSc Oxon, MSc Lectr.  
Bhuiyan, A. L., MSc Lectr.  
Khan, A. W., MSc Calc Temp Lectr  
Khan, M. A. A., MSc (on leave) Jr Lectr  
Khatoon, Miss A. Fellow  
Ahmed, M., MSc Fellow  
1 Lab. Asst

## ADMINISTRATIVE AND OTHER STAFF

Inspector of Colls. A. M. Choudhury, MA.  
Med. Officer. S. Ahmed, MB Calc. Asst.  
Med. Officer. M. Mortaza, MB BS. Asst.  
Registrar: M. Munsef Ali, BSc Controller  
of Exams: M. R. Khan, MA Addnl Asst.  
Controller of Exams. F. Haq, BA. Asst.  
Controller & Sec. to Vice-Chancellor A. H. Choudhury, BA. Prefect. N. Momen, BL. Officer-in-charge, Univ. Students' Information Bureau: M. Munsef Ali, BSc. Dir. of Phys. Educn. Major M. Rahman, BA DPE *Madr.* Phys. Instrs.: M. Ahmad, BA; K. C. Roy, J. C. Roy, BSc. Accts. Officer: S. K. Rahmatullah, BA. Asst. Accts. Officer: A. H. Molla, MCom

Univ. Engineer. A. R. Chowdhury, BE  
Steward. M. Dabiruddin Mosh. Press Manager.  
M. Choudhury, BA. Asst. Librarian. A. R. Mirdah, BA. Jr Asst. Librarian. K. A. M. Shamsul Huda Mia, BA. DipLabSc Electrical Engineer. Keshab Chandra Karmaier.

Provosts of Halls. Sahmullah Muslim Hall: M. Haq, MA PhD Lond., Fazlul Haq Muslim Hall. M. Saifullah, MA Calc., BCom Lond.; Dacca Hall: M. Rahman, MSc PhD; Jagannath Hall: G. C. Deb, MA PhD Calc.; Iqbal Hall: S. S. Hossain, MA PhD Nott.; Women's Hall: Mrs Akhtar Imam, MA Lond & Dacca. Supt., Women's Hall: Mrs. Jahannara Begum.

## CONSTITUENT COLLEGES

[BSc(Engin), etc., after the name of a coll means that courses are provided there for BSc(Engin), etc.]

Dacca, *College of Home Economics* BSc in home econ. Principal—Mrs Hamada Khanom, MA Calc., BA Lond. 16 other Teachers.

Dacca, *College of Social Welfare and Research Centre*, 84 Shantinagar. MA in soc. welfare. Principal—A. K. Ahmadullah, MA MCom MSc Lond. 10 other Teachers.

Dacca, *Dacca Medical College*, Ramna MB BS, condensed MB BS Administrator—Lt.-Col. M. M. Haque, MB 57 other Teachers

Dacca, *East Pakistan Agricultural Institute*, Tejgaon. BA, MAg. Principal—F. Ahmed, MS Ohio, MSc MA BT. 16 other Teachers.

Dacca, *Govt. College of Physical Education*.

Dipl. in phys. educn. Principal—Major M. T. Hossain 8 other Teachers.

Dacca, *Teachers' Training College*, Dhanmondi. BED (group A), MED Principal—M. O. Ghanj, DipEd Lond, MA BT. 16 other Teachers.

MYMENSINGH, *Teachers' Training College*, BED (groups B and C), MA in educn. Principal—K. A. F. M. A. Quasim, MB BT Calc., MSan Educn S III 13 other Teachers.

MYMENSINGH, *Teachers' Training College for Women* BED (group B). Principal—Miss Azimun Nessa, MED Azimun, MA BT. 10 other Teachers.

## AFFILIATED COLLEGES

BARISAL, *BM College*. BA, BSc, BCom Principal—M. B. Chowdhury, MA 25 other Teachers

BARISAL, *Fazlul Haq College*, Chakhar. BA. Principal—E. Karim, MA MCom LLB. 15 other Teachers

CHITTAGONG, *Chittagong College*. BA hon., BSc hon., BA, BSc. Principal—A. F. M. Musaffar Ahmed, MA. 74 other Teachers.

CHITTAGONG, *Chittagong Night College*. BA, BCom. Principal—A. A. R. Karim, MA. 31 other Teachers

CHITTAGONG, *Chittagong Women's College*. BA. Principal—Miss Ferdous Ara Sabeth, MA. 19 other Teachers

CHITTAGONG, *Govt. College of Commerce*. BCom Principal—A. S. Khan Choudhury, MA BT. 17 other Teachers

CHITTAGONG, *Law College*. LLB Principal—U. N. Siddiqui, BL Calc. 6 other Teachers.

CHITTAGONG (KANUNGOPARA), *Sir Asutosh College*. BA, BSc. Principal—M. L. Nag, MA Calc. 23 other Teachers.

COMILLA, *Brabhambaria College*. BA. Principal—A. Ashar, MA. 19 other Teachers.

COMILLA, *Victoria College*. BA, BSc, BCom. Principal—S. Rahman, MA. 45 other Teachers.

DACCA, *Cent of Women's College*. BA. Principal—Mrs. B. Mahmuda Naser. 18 other Teachers.

DACCA, *Dacca City Night College*. BA, BCom. Principal—N. Ahmed, MA. 13 other Teachers.

DACCA, *Dacca College*. BA, BSc. Principal—M. U. Ahmed, MA. 59 other Teachers.

DACCA, *Eden Girls' College*. BA, BSc. Principal—Mrs. Zebunnissa Rahman, MA. 47 other Teachers.

DACCA, *Jogannath College*. BA, BSc, BCom. Principal—A. K. Manzurul Haq, MSc. Aug. 54 other Teachers.

DACCA, *Law College*. LLB. Principal—Alec R. Raza, MA. PhD. Lond., LLB. 12 other Teachers.

DACCA, *Narsingdi College*. Narsingdi BA. Principal—D. M. Azad, MA. 15 other Teachers.

DACCA, *Notre Dame College*. BA. Principal—Rev. W. L. Graham, MS. *Notre Dame*. 22 other Teachers.

DACCA, *Quaid-i-Azam College*. BA, BSc, BCom. Principal—A. M. A. R. Faris, MA. 44 other Teachers.

DACCA, *Salunullah College*. BA, BCom. Principal—K. P. Banerjee, MA. Cal. 12 other Teachers.

DACCA (MANHIGANJ), *Desendra College*. BA. Principal—A. Majid, MA. 12 other Teachers.

DACCA (MUNSHIGANJ), *Haraganga College*. BA, BCom. Principal—Azizuddin Ahmed, MA. Cal. 21 other Teachers.

DACCA (NARAYANGANJ), *Tolaran College*. BCom. Principal—K. N. Chakraborty, MA. Cal. 26 other Teachers.

DACCA (TEGAON), *Holy Cross College*. BA.

Principal—Sr. Augustine Marie, MA. Loyola. 13 other Teachers.

FAREDPUR, *Rajendra College*. BA, BSc. Principal—S. I. Choudhury, MA. 23 other Teachers.

FAREDPUR (MADARIPUR), *Naraindutta College*. BA. Principal—A. M. Zahurul Islam, MA. 11 other Teachers.

MYMENSINGH, *Amma Mohan College*. BA, BSc. Principal—S. B. Hossain, MA. 37 other Teachers.

MYMENSINGH (JAMALPUR), *Ashay Mahand College*. BA. Principal—H. Rahman, MA. 14 other Teachers.

MYMENSINGH (KARATTA), *Sawdat College*. Tangail BA, BCom. Principal—T. Ahmed, MA. 23 other Teachers.

MYMENSINGH (KISHORGANJ), *Gawadai College*. BA, BSc. Principal—M. Wazimuddin, MA. 20 other Teachers.

MYMENSINGH (TANGAIL), *Kumudini Girls' College*. BA. Principal—Mrs. N. A. Hameed, MA. Luck. 8 other Teachers.

NOAKHALLI, *Chauhan College*. BA. Principal—T. Hossain, MA. 20 other Teachers.

NOAKHALLI, *Few College*. Feni. BA. Principal—G. M. A. Mannan, MA. 20 other Teachers.

SYLHET, *Gout College*. BA. BSc. BCom. BA, BSc. Principal—Md. S. Choudhury, MSc. BT. 45 other Teachers.

SYLHET, *M. M. College*. BCom. Principal—P. C. Goswami, MA. Cal. 13 other Teachers.

SYLHET, *Women's College*. BA. Principal—Mrs. H. A. Choudhury, MA. 9 other Teachers.

SYLHET (HARGANJ), *Brundaban College*. BA, BCom. Principal—M. Huq Choudhury, MA. 19 other Teachers.

SYLHET (SUNAMGANJ), *Sunamganj College*. BA. Principal—A. H. M. A. Quddus, MA. 17 other Teachers.

TIFFRAH, *Chandpur College*. BA. Principal—Capt. K. Ahmed, MA. 24 other Teachers.

## GENERAL INFORMATION

The Univ. was establd. in 1921 under the Govt. of India Act XVIII of 1920, which was based on the recommendations of the Calcutta Univ. Commission presented over by Sir Michael Sadler, as a unitary, teaching and residential univ. with a constitution similar in many respects to those of mod. English univs. Following the creation in 1947 of the province of E. Bengal as part of Pakistan, the E. Bengal educ. ordinance, 1947, was promulgated, by which the univ., without prejudice to its original character as a teaching and residential univ., was entrusted with sole authority to recognize and affiliate all educ. instns. in E. Bengal above metric and high

Madressa standard. Accordingly, in 1947, the univ. affiliated 55 1st and 2nd grade colls. throughout the whole of E. Bengal, as well as several other univs.

With effect from the session 1961-62, the responsibility of arranging and conducting the inter. courses has been entrusted to the E. Pakistan sec. educ. bd., Dacca.

CONSTITUTION. With the promulgation of the Dacca Univ. Ordinance, 1961, the authorities of the univ. are the syndicate, academic council, fees, cttces of courses, selection bds., finance cttcs., planning and devel. cttcs. The syndicate,

the exec. body of the univ., consists of the following members, *ex officio*, who are fellows of the univ. the vice-chancellor (chairman); treasurer, dir. of pub. instrcn., E Pakistan, chairman, bd of intn. and soc. educn., Dacca, 1 group of 2 deans of facs for period of 1 yr.; 5 persons nominated by the chancellor (incl. 2 from among registered grads., 1 from a govt. affiliated and 1 from a non-govt. affiliated coll.) Its main functions are to hold, control and administer univ. funds and to regulate and determine all matters concerning the univ. A cttee of courses and studies is constituted in December for the following calendar yr. by the appropriate fac. for each subj. or group of subjs., to prescribe text-books and make syllabuses. Appts. to teaching and admin. posts are made by syndicate on the recommendation of selection bd.

The academic council is the academic body of the univ. and consists, besides *ex-officio* members, of reprs. of the affiliated colls., etc. Its main functions are to control and maintain the standard of instrcn., educn. and exas.

Each of the 6 facs has charge of teaching, courses of study and res. work, subject to the control of the academic council.

**INCOME (1960-61)** Rs 4,395,491 (govt. grants, Rs. 2,200,000; fees, Rs. 1,685,375; press & publica., Rs. 107,467; misc., Rs. 402,649)

**FACULTIES AND DEANS** Agric., Principal F. Ahmed, arts, Prof. A. B. M. Habibullah (Islamic hist. & culture), educn., Principal M. O. Ghani, law, Prof. N. U. A. Siddiqui, med., Prof. A. K. S. Ahmed; sci., Prof. M. Ahmed (bot.)

**UNIVERSITY PARKING.** The univ. area covers about a sq. ml. of fine parkland, incl. over 100 acres of playing fields, and lies about 1 ml. N.W. of the centre of Dacca city.

**LIBRARIES, ETC.** Univ. library: over 160,000 vols. and about 25,000 Sansk., Bengali, Arabic, Urdu and Punjabi MSS. Reading room. Separate sci. library. Each hall of residence has a library.

**LABORATORIES.** Bot., chem., geog., geol., phys., psychol., soil sci., stats., zool.

The usual **LANGUAGE OF INSTRUCTION** is English.

**ADMISSION** Min. standard required for entry to degree courses is that of the univ. inter. exam. or equivalent.

**FIRST DEGREE.** 3 yrs. [from 1960-61] from inter. (for both pass and hon.)—BA, BCom, BSc; 3 yrs.—BAg, 4 yrs.—BSc(Engin); 5 yrs.—BSc(AH), MB BS

**HIGHER DEGREE.** 1 yr.—BED; 2 yrs. (1 yr. for hon. BA or BSc of the univ.)—MA, MA in educn., MSc, 2 yrs.—LLB, MCom, MAg; 3 yrs.—LLM. Also PhD, DLitt, DSc, LLD, open to grade of 3 yrs.' standing, but grads. of other univs. must pay fee in this univ. for 2 yrs.

**HONORARY DEGREES** LLD, DLitt, DSc

**DIPLOMAS** Engin., 3 yrs., phys. educn., lib. sci., each 1 yr.

**CERTIFICATES.** Geog., military sci., 1 yr., jr. and ar. proficiency cert. courses in elem. German, 1 yr.

**LICENTIATE IN vet. sci. (LVS), 3 yrs.**

**FEES** Tuition, per session: BA (pass), BA hon., BSc (pass), BCom, LLB, Rs. 120; BSc hon., MA, MCom, Rs. 144; MSc, Rs. 180. Registration, Rs. 6 (res. students, Rs. 20), admission, 1 month's tuition fee; athletic, Rs. 5; students' union, Rs. 8, migration fee, Rs. 15; transfer fee, 1 month's tuition fee, enrolment of registered grads., Rs. 10 (for life, Rs. 100). Hostels: semi-board fees from Rs. 3 to Rs. 6 p.m. including cost of light, water, med. attendance, medicine and servants. Cost of food about Rs. 40 p.m.

**ACADEMIC YEAR** July to April, 3 terms. Term dates (approx.): July 18 to Sept. 23; Oct. 18 to Dec. 22, Jan. 4 to April 22.

**TUTORIAL CLASSES** are organized in all depts. and all univ. teachers participate under the control of the hds. of depts. and provosts.

**RESIDENCE** Students residing in the univ. itself must live either in one of the halls of residence or under sp. approved conditions. Halls for Muslims: Salmullah Hall (accomm. for 400 students), Fazlul Haq Hall (370), Iqbal Hall (258), for non-Muslims: Jagannath Hall (160); for all students: Dacca Hall (300). Women's Hall (112). For provosts, see p. 814. Some univ. teachers live in houses within the univ. area.

**STUDENT HEALTH SERVICE** On admission to the univ. for the first time each student is medically examined. All students receive free med. attention. Resident students also receive med. care in the halls: 1 med. officer, 2 asst. med. officers and 1 pt.-time lady med. officer.

**PHYSICAL EDUCATION.** After exam. by the med. officer, each student must undergo regular courses of phys. educn. in the well-equipped gymnasium. Coaching is also given in various sports.

The **STUDENTS' INFORMATION BUREAU** assists students to secure admission to foreign univs. and other insts. The bureau library contains up-to-date calendars, handbooks, pamphlets and prospectuses of foreign educn. and technical insts. for reference by students.

**STUDENT-TEACHER CENTRE.** Aims to establish better and closer relationship between students and teachers, and to provide more and better amenities for the student population. Adviser on student affairs—M. Ahmed, MSc PhD. Perm. Dir. of centre—A. Z. Khan, MA.

**UNIV. OFFICERS' TRAINING CORPS.** One bn., commanded by Major M. Rahman, Adjutant, Capt. M. A. Haq.

**PUBLICATIONS** Prospectus. (free); Annual

*Report (free); Syllabuses and Bulletins, various prices; Calendar, Rs. 10; Dacca Univ. Studies (twice p a.), Rs. 7.*

**UNIVERSITY PRESS** In addn. to the ordinary printing work of the univ., the press undertakes,

under the direction of the bulletin citen., the publication of theses and other original work of the teaching staff and res. students, and of the univ. selections in Engl. & Bengali for inter. and degree courses. *Postal Address:* The Press Manager, Dacca Univ. Press, Ramna, Dacca.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed: 3rd storey over Iqbal Hall with and floor over students' indoor games room in Assembly Hall (for 130 students); 8 residential blocks for teachers and officers (48 flats); a residential blocks for jr. officers (24 flats); students' cafeterias, 3rd storeys over main chem. extension, chem. lab. and sci. lib. bldgs.; 4 blocks of M.L.S.S. quarters (48 nos.); 3 classrooms for inst. of educn. and res.; a houses for provosts of halls; a single storey bldg. to accomm. branch of Natnl. Bank of Pakistan; extension of Dacca museum.

**RESIGNATIONS.** A. Aziz (Arabic & Islamic studies), Dr. K. J. Newman (pol. sci.), A. W. Msa (bot.), H. Kabir (zool.).

**DEATHS.** S. Ansari (law).

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year).

	Full-Time	Part-Time
Men	12,202	—
Women	974	—
Total	13,176	—

The figures above relate to students in con-

stituent (2681) and affiliated (7055) colls. in post-  
inter courses only (inter. courses having been  
transferred to the Bd. of Inter. and Sec. Educn.,  
E. Pakistan), and in the univ. proper (1436).

**Distribution by Faculties:** *Agri.*, 157; *arts*,  
7080; *educn.*, 276; *engin.*, 921; *law*, 1561;  
*med.*, 547; *sci.*, 2234. **Total**, 13,176

*Included in the figures above are:—*

Postgraduate students, 2066

New admissions to the univ. proper, 1776.

Students from other countries, 37 (Country  
from which largest number came: Fed. of  
Malaya, 28).

**DIPLOMAS AWARDED (1960-61)** BA, 47; BSc  
(AH), 8; BA pass, 1895; BA hon., 226; MA,  
380; BCom. pass, 675; BCom. hon., 28;  
MCom., 47; BSc. pass, 448; BSc. hon., 65;  
MSc., 143; BEd., 251; MA (soc. welfare), 23;  
MA (educn.), 16; MAg., 3; LLB, 161; MB BS,  
172; MB BS (condensed), 70; BSc(Engin.), 109

**DIPLOMAS AWARDED (1960-61)** LVS, 34; lic  
in civil engin. (LCE), 18; phys. educn., 16;  
libr. sci. (Dipl.S.), 22

**CERTIFICATES AWARDED (1960-61)** Inter. arts,  
2033; inter. sci., 1717; inter. comm., 1052;  
Islamic inter. studies (IIS), 19; military sci., 15

# EAST PAKISTAN AGRICULTURAL UNIVERSITY

Founded 1961

Postal Address : P O Agricultural University, Mymensingh, East Pakistan

Cables and Telegrams : Agriversity, Mymensingh

Telephone : Mymensingh 97

CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (ex officio)

VICE-CHANCELLOR—M. O. GHANI, PhD Lond.

REGISTRAR—B. MAJID, BA Calc.

PROJECT DIRECTOR—G. HUSSAIN, BA BT Calc., TD MA Lond.

TREASURER—A. A. SINHA, BA Calc.

CONTROLLER OF EXAMINATIONS—M. HUSSAIN, MCom Dacca

INFORMATION OFFICER—S. M. TABSUL ALAM, BA Dacca

LIBRARIAN—A. M. ABDUL HUQ, MCom Dacca, MLS Carnegie Tech.

## TEACHING STAFF

Agriculture (including Basic Sciences and Languages)		Veterinary Science	
Khan, I. H., MSc Agric., BA Dacca, MS Can.	Prof.	Ahmed, B. U.	Lectr.
Khandoker, G. M., BSc BA Dacca		Rahman, M. S.	Lectr.
Chief Farm Supt		Latif, A., MS Texas	Lectr.
Amirul Haque, A. K. M., MSc Dacca, PhD Lond.	Lectr.	Masud, A. H., MS Texas	Lectr.
Eetazul Islam, M., MSc Dacca	Lectr.	Huq, M., BSc(VetSc&AH) Dacca	Lectr.
Rahim Khan, A., MSc Dacca	Lectr.		
Newaj, A., MA Dacca	Lectr.	Mahmud Ali, S., BSc Agric.	Prof.
Ali, S., MA Dacca	Lectr.	Chowdhury, N. A.	Prof.
Shamsuddin, A. M., MA Dacca	Lectr.	Chowdhury, M. B. R., MS Oklahoma	Reader
Masud, A. R. M., MSc Dacca	Lectr.	Sarker, T. H., BSc Calc.	Reader
Karim, A., MSc Dacca	Lectr.	Bhattacharya, M. B.	Lectr.
Ali Khan, M. A., MSc Dacca	Lectr.	Wahid, S. A.	Lectr.
Rahman, M., MA Dacca	Lectr.	Haque, Mozammel	Lectr.
Ahmed, M., BS Texas, MSc Dacca & Texas	Lectr.	Fazl, M. A.	Lectr.
Tarikul Islam, M., MA Dacca	Lectr.	Talukder, A. H., MS Texas	Lectr.
Bhattacharya, R. C., MSc Dacca	Lectr.	Anwarul Haque, A. Y. M., MS Texas	Lectr.
Hussain, M., MSc Dacca	Lectr.	Ahmed, A. M., BSc(VetSc&AH) Dacca	Lectr.
		Ali, K. M., BSc(VetSc&AH) Dacca	Lectr.
		Islam Khan, A., BSc(VetSc&AH) Dacca	Lectr.
		Emdad Hossain, A. S. K., BSc(VetSc&AH) Dacca	Lectr.
		Haque, Mozammel, BSc(VetSc&AH) Dacca	Lectr.
Animal Husbandry			
Rahim, Q. M. F., BSc Dacca, MS PhD Texas	Prof.	Alam, N., BSc(VetSc&AH) Dacca	Lectr.
Mashhad Ali, M., BSc Calc.	Lectr.	Mam, A., BSc(VetSc&AH) Dacca	Lectr.
		Mannan, A. K. M. A., BSc(VetSc&AH) Dacca	Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Dir. of Phys. Edn. : Q. A. Alam, MA Dacca, MA Dacca. Asst. Dir. of Sports : Lt. A. B. Nuruddin. Exec. Engineer : A. Huq, BSc Hall No. I, B. R. Chowdhury; Hall No. II, Dr. M. A. Chowdhury.

## GENERAL INFORMATION

The univ. was established in 1961 by the E Pakistan Agricultural Univ. Ordinance, 1961, promulgated by the governor and based on the recommendation of the commission on rural education, with the main purpose of providing facilities for higher education and research in agriculture and allied fields.

**CONSTITUTION** The authorities of the university include syndicate, academic council, faculty boards, studies, finance committee, planning & development committee, etc. The syndicate consists of the vice-chancellor, director of public instruction, director of agriculture, and deans nominated by the chancellor and 6 other members of the council. It is the executive body of the university, its main functions being to control and administer all matters concerning the university in accordance with university ordinance, statutes, etc. The academic council is the academic body of the university and consists of the vice-chancellor, deans of faculties, all university professors and readers, heads of all teaching departments, and 5 persons nominated by the chancellor. Each faculty (see below) is in charge of teaching, co-ordination of the work of the faculty boards, of studies comprised in the faculty, scrutiny of courses for syllabuses prepared by these faculty boards, and transmission thereof to the academic council.

**INCOME.** The university is financed by the government Budget (1961-62): Rs. 69.63 lacs, of which Rs. 60.8 is for capital expenditure.

**FACULTIES AND DEANS.** Agriculture, Prof. I. H. Khan; Animal Husbandry, Prof. Q. M. F. Rahim; Veterinary, Prof. S. Mahmud Ali.

**UNIVERSITY CAMPUS.** The university has begun in the buildings of the E. Pakistan College of Veterinary Science & Animal Husbandry which lie in an area of about

300 acres on the bank of the river Brahmaputra, 3 miles from Mymensingh railway station, and about 70 miles from Dacca city to which it is also connected by rail. Another 900 acres near the college are to be acquired.

**LIBRARY.** About 10,000 vols. Each hall of residence will have its own library.

## 12 LABORATORY UNITS

**ADMISSION.** Minimum standard for entry to first degree course is matric or equivalent of a recognized university or of a board of secondary education.

**FIRST DEGREE.** 5 yrs.—B.A., B.Sc.(A.H.), 6 yrs.—B.Sc.(Vet.Sc.)

**HIGHER DEGREE.** 1 yr. from bachelor's degree—M.Sc.Ag., M.Sc.(A.H.), 2 yrs.—M.Sc.(Vet.Sc.).

**LEGISLATIVE IN VET. SCI. (LVS), 3 yrs.**

**TUTORIAL** classes organized in all departments.

**FEES.** Tuition for bachelor's degree, Rs. 120 p.a.; master's degree, Rs. 144 p.a.; LVS, Rs. 84 p.a. Admission, Rs. 10, registration, Rs. 6; union, Rs. 12 p.a.

**ACADEMIC YEAR.** July to June.

**STUDENT RESIDENCE.** 2 halls of residence accommodate 360 students, 4 more halls being constructed for further 600 students. Seat rent, Rs. 2 per month (incl. light, water, medical attention, etc.), food costs about Rs. 35 per month.

**STAFF RESIDENCE.** University teachers live within campus.

**STUDENT HEALTH SERVICE.** Free medical attendance for all students. Compulsory medical examination before admission to university.

**PUBLICATIONS.** *Prospectus*.

## THE YEAR 1961

This was the 1st year of the university's existence. The construction programme for 1961-62 was estimated to cost Rs. 39 lacs.

## Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	445	—
Women	2	—
Total	450	—

Included in the figures above are —  
Students from other countries, 28.



# EAST PAKISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Founded 1961

Postal Address: Ramna, Dacca, East Pakistan  
Cables and Telegrams: Engineering University, Dacca  
Telephone: 5631, 2332

CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (*ex officio*)

VICE-CHANCELLOR—M. A. RASHID, BE Calc., MS Carnegie Tech., DSc Dacca

REGISTRAR—M. A. JABBAR, MSc Calc.

COMPTROLLER—MOMTAZUDDIN, MA Dacca

DIRECTOR OF ADVISORY, EXTENSION AND RESEARCH SERVICES—V. G. DESA, BE Bow., PhD Lond.

DIRECTOR OF STUDENTS' WELFARE—M. KARIMUDDIN, BE Calc., MEng Texas

## TEACHING STAFF

[† = Part-Time]

<b>Chemistry</b>	Wahuzzaman, K. M., BSc(Engin) Dacca, MS Texas Agric.	Asst. Prof.
2 Lectrs.	6 Lectrs.	
<b>Engineering, Chemical</b>	<b>Engineering, Mechanical</b>	
Nasir, M. A., MSc Dacca, MSE Johns H., (on leave) Prof.	Ahmed, A. M., BSc Brit	Prof.
Choudhury, A. Q., MSc Dacca	Ahmed, Rasheduddin, BE Calc., MScTech Manch.	Assoc. Prof.
Haque, S. M. M., MSc Patna, BS Texas Agric.	Ali, S. K., BE Calc., DIC, MSc(Eng) Lond.	Asst. Prof.
2 Lectrs.	(on leave) Asst. Prof.	
<b>Engineering, Civil</b>	Khan, M. H., BSc(Engin) Dacca, MS Texas Agric.	Asst. Prof.
Ahmed, Wahiduddin, BSc Dacca, BSc(Engg) Alig., MS Calif., PhD Water	Ahmed, Rafiquddin, BSc(Engin) Dacca, PhD Lond.	Asst. Prof.
Assoc. Prof., Hd. of Dept.	Khan, Alamullah, BE Calc., BSc(Eng) Lond.	(on leave) Asst. Prof.
Hasnat, A., BE Calc., MS Carnegie Tech.	7 Lectrs.	
(on leave) Assoc. Prof.	<b>Engineering, Metallurgical</b>	
Haque, S. M. N., BE Calc., MS Corn	Ibrahim, M., BE Calc., PhD Glas.	Asst. Prof.
Asst. Prof.	Islam, M. S., BSc(Engin) Dacca, MS Texas Agric.	Asst. Prof.
Eusufi, M. H. S. H. K., BSc Calc., BSc(Engin) Dacca, MS Texas Agric.		
Asst. Prof.	<b>Humanities</b>	
Asam, A. H. M. H., BSc(Engin) Dacca, MS Texas Agric.	Choudhury, A. H., MA LLB Dacca	(Econ.) Prof.
Asst. Prof.	2 Lectrs., 1 Lectr.†	
Rahid, M. H., BSc(Engin) Dacca, MS Texas Agric.	<b>Mathematics</b>	
10 Lectrs.	Zahiruddin, K., MSc Calc.	Prof.
<b>Engineering, Electrical</b>	2 Lectrs.	
Asam, M. N., BSc(Engg) Alig., PhD Water	<b>Physics</b>	
Prof., Hd. of Dept.	Saha, K. M., MSc Calc.	Prof.
Haque, A. M. Z., MSc Calc., MS Cal., PhD Lond.	1 Lectr.	
Asst. Prof.		
Islam, N., BSc(Engin) Dacca, MS Texas Agric.		
(on leave) Asst. Prof.		
Rahman, A., BSc(Engin) Dacca, MS Texas Agric.		
Asst. Prof.		

## GENERAL INFORMATION

The univ. which was establd. by the E Pakistan Engin & Technological Univ Ordinance 1961, began to function in June 1962. It derives from Ahmadiyah Engin. Coll, a former constituent coll of the Univ of Dacca, and its purpose is to provide facilities for higher educn. and res. in engin. and technol. and all their branches.

**CONSTITUTION** The following are the authorities of the univ: syndicate, academic council, fees, bds. of studies, cttee for advanced studies & res., selection bd., finance cttee, planning & devel. cttee. The syndicate has the gen. management of, and superintendence over, the affairs, concerns and property of the univ. It is advised on all academic matters by the academic council.

**INCOME** Govt. grant, Rs. 10,300,000; fees, Rs. 135,920.

**FACULTIES** Archt., & planning; engin.

**LIBRARY** Over 7000 vols.

**ADMISSION** Min. standard: inter. exam. in sci. of Univ. of Dacca, or equivalent (see also p. 816).

**FIRST DEGREE.** (At present, the syllabuses, rules & regulations of Univ. of Dacca apply). 4 yrs.—BSc(Engg) in chem., civil, electr. and mech. engin.

**ACADEMIC YEAR** Oct. to July, 2 semesters. Semester dates (approx.): Oct. 15–Feb. 15, March 25–July 15.

**STUDENT RESIDENCES** Subject to the availability of places each student must reside in one of 5 hostels.

**STUDENT HEALTH SERVICE** In addition to the facilities available at the near-by Dacca Med. Coll. hosp., the univ. maintains a dispensary attended by a full-time doctor. Free med. attention for all students, candidates eligible for admission medically examined.

**STUDENT UNIONS** There are 4 hostel unions, each of which is responsible for organising a wide range of activities for the hostel residents. Students' central inst. co-ordinates activities of hostel unions.

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1023	—
Women	31	—
Total	1026	—

**Distribution by Faculties.** Archt. & planning, 36; engin., 990. Total: 1026.

*Included in the figures above are:—*

New admissions, 282.

Students from other countries, 7. (Country from which largest number came: Nepal, 6).

# UNIVERSITY OF KARACHI\*

Founded 1950

Postal Address: Country Club Road, Karachi, West Pakistan

Telephone: 43012-5

CHANCELLOR—THE PRESIDENT OF THE REPUBLIC OF PAKISTAN (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION IN THE CENTRAL GOVERNMENT (*ex officio*)

VICE-CHANCELLOR—I. H. QURESHI, MA PhD CMB

HONORARY TREASURER—.....

REGISTRAR—Lt.-Col. S. F. H. ZAIDI

DEPUTY REGISTRAR—S. M. NAJMUDDIN, MA Patna

LIBRARIAN—....

PROCTOR—Major A. HASSAN

PROVOST—A. L. SIDDIQI

## UNIVERSITY TEACHING STAFF

[†=Part-Time]

<b>Arabic</b>		Syood, A., MA PhD <i>Penn.</i>	(on leave) Reader
Yusuf, S. M., PhD <i>Algh.</i>	Reader	Uzair, M., MA <i>Penn.</i>	(on leave) Reader
Haq, M. M	Reader	Khan, T. M., MA <i>Georgetown</i>	(State.) Reader
Arshad, H. S. R. A., MA <i>Dalhi</i>	Lectr.	Khan, M. A., MA <i>Agra</i> , MBA <i>Penn.</i>	(on leave) Reader
<b>Bengali</b>		Iqbal, M., PhD <i>N Carolina</i>	Reader
Syed, A. H. A. A., MA <i>Dacca</i>	(on leave) Reader	Hussain, M., MA <i>MBA</i>	Lectr.
Farooq, M., MA <i>Dacca</i>	Lectr.	Zaheruddin, MA LLB <i>Algh</i>	Lectr.
<b>Botany</b>		Rahman, R., MA LLB <i>Nag.</i>	Lectr.
.....		Syed, A. H., PhD <i>Penn.</i>	(Pub. Adm.) Lectr.
Hassan, S. Z., MSc <i>Algh.</i> , PhD <i>Minn.</i>	Prof	Hassan, A., MCom <i>Tor.</i>	Lectr.
(on leave) Reader		Farooqi, Mrs. Ansa, MA	Lectr.
Naqvi, S. H. Z., MSc <i>Alld.</i> , PhD <i>Qu.</i>	Lectr.	Habib, W., MBA	Lectr.
Ali, S. I., PhD <i>Lond.</i>	(on leave) Lectr.	Zamul Abideen, S., MA	Lectr.
Nizamuddin, M., PhD <i>Adel.</i> , MSc	Lectr.	Ali, M., MA	Lectr.
Ahmad, R., PhD <i>Ohio</i>	Lectr.	Said, K. M., MA <i>MBA</i>	Lectr.
to Instrs.		Qureshi, M. A., MBA	Lectr.
<b>Business Administration, Graduate</b>		2 Dens., 2 Fellows	
<b>School of</b>		<b>Chemistry</b>	
Brenninger, H. R., MBA <i>Texas</i>	Chief Adviser	Siddiq, R. H., MSc PhD <i>Algh.</i> , DPhil <i>Oxon.</i>	Prof.
Mead, R. R., AB PhD <i>Penn.</i>		.....	Reader
(Marketing) Adviser		Haq, A. K. M. S., MSc <i>Dacca</i> , DIC,	
Grimalley, G., AM PhD <i>S.Calf.</i>		PhD <i>Lond.</i>	(on leave) Reader
(Personnel Management) Adviser		Ahmad, S., MSc <i>Algh.</i>	Lectr.
Henningsen, F. A., MA <i>Montana</i>	(Acctg.) Adviser	Ahmad, N., MSc <i>Penn.</i> , PhD <i>Manc.</i>	Lectr.
(Acctg.) Adviser		Salem, M. A., MSc <i>Agra</i>	Lectr.
Rydehl, P., MA <i>Montana</i>	(Acctg.) Adviser	to Instrs.	
Hemmer, S. M., MA <i>Penn.</i>	(Stats.) Adviser	<b>Economics</b>	
Besant, P. G., MBA <i>Corn.</i> , MSc <i>Nehruka</i>	(Indust. Management) Adviser	.....	Prof.
(Indust. Management) Adviser		Fareed, Q. M., MA <i>Canb.</i>	Reader
Mukhtar, I. A., MA <i>Algh. &amp; Cul.</i> , PhD	Reader		

\* Member of the Association of Universities of the British Commonwealth

Kadri, A. H., MA *Alg.*  
 Siddiqi, Q. H., MA LLB *Alg.*  
 Chowdhry, M. K., BSc *Land.*  
 Rahman, M., MA *Patna*  
 Hassan, M. K., MA *Dacca*, PhD  
 Ahmad, K., MA LLB  
 2 Instra

Lectr. **Mathematics**  
 Lectr. ..  
 Lectr. Hanafi, A. R., MSc *Alg.*  
 Lectr. Zaidi, N. H., MSc *Alg.*  
 Lectr. Qureshi, M. A. R., MA *Edin. & Karachi*  
 Lectr. Temp. Lectr.

Reader  
 Lectr.  
 Lectr.  
 Lectr.

**English**

Ashraf, S. A. N. A., MA *Comb.* (on leave) Reader  
 Hussain, S. M., MA *Patna* (on leave) Lectr.  
 Jami, Mrs. Maya, MA *Luck.* Lectr.  
 Kureshi, Mrs. Maki, MA *Smith, BA* Lectr.  
 Kibria, Mrs. N., MA *Dacca* Lectr.  
 Rahman, A., MA *Agra* Lectr.  
 Ahmad, I., MA Fellow  
 4 Instra.

**Persian**  
 Sarwar, G., MA PhD *Alg.* Reader  
 Inam, M., MA *Patna* Lectr.  
 Khan, A. A., MA BT *Alg.*, PhD *Tahran* Lectr.

**Geography**

.. .. Prof  
 Reader  
 Lectr. Ahsan, S. Z., MSc *Alg.*  
 Lectr. Siddiqi, S. I., MA PhD *Alg.*  
 Lectr. Siddiqi, M. I., MA *Alg.*, DSc *Kiel*  
 4 Instra

**Philosophy**  
 Ahmad, M. M., MA *Alg.*, PhD *Munich* Prof  
 Anwar, T. H., MA *Alg.* Lectr.  
 Khan, A. R., MA LLB *Alg.* Lectr.  
 Ali, M. I., MA *Bau* Lectr.  
 Ahmad, Manzoor, MA Lectr.  
 1 Instra

**Geology**

.. .. Prof  
 Reader  
 Reader Khuda, M. M., MSc *Cale*, PhD *Lond.*  
 (on leave) Lectr.  
 Vaisullah, M., MSc *Wiz.* Lectr.  
 Hussain, M. A., MSc *Alg.* Lectr.  
 4 Instra.

**Physics**  
 .. .. Prof  
 Karam, S. M., MSc *Alg.*, PhD *Tor.* Reader  
 Tirmazi, S. M. A., MSc *Alg.*, DPhil *Oxon.*  
 Khan, M. Aslam, DIC, PhD *Lond* Reader  
 Hassan, S. B., MSc *Alg.* Lectr.  
 Hussain, S. A., MSc Lectr.  
 11 Instra.

**History**

.. .. Prof  
 Islam, R., MA *Alg.*, PhD *Alg.* & *Comb.* Reader  
 Rahim, M. A., PhD *Lond.*, MA *Actg.* Reader  
 Siddiqi, M. H., MA *Alg.*, PhD *Manc.* (on leave) Lectr.

**Political Science**  
 Ahmad, I., MA *Luck.* Reader  
 Kadri, W., MA *Alg.* Lectr.  
 Salahuddin, C. A., MA *Trau. & Col.* Lectr.  
 Hussain, S. A., MA *Agra* Lectr.  
 1 Instra.

**International Relations**

Chaudhri, M. A., MA *Oregon*, PhD *Duke* Lectr.  
 Kadeer, A. A., MA *Orn.*, PhD *Paris* Lectr.  
 Hains, Miss Khushod, MA *Inst. for Soc. Studies (The Hague)*, PhD Lectr.

**Psychology**  
 Aslam, Q. M., MA *Pang.* & *Comb.* (Moral Sci.) Prof.  
 Zuberi, H., MA *Alg.*, PhD *S. Calif.* Lectr.  
 Rehmatullah, Mrs. Sourayya, MA *Cal* Temp. Lectr.  
 2 Instra

**Islamic History**

Siddiqi, A. H., LLB *Alg.*, PhD *Lond.* Reader  
 Saleem, M., MA LLB PhD *Alg.* Lectr.  
 Hashmi, Y. A., MA LLB *Alg.*, PhD Lectr.  
 Anwar, Z. I., MA *McG. & Karachi*  
 (on leave) Lectr.  
 1 Instra.

**Social Work**  
 Shah, M. A., MA *Pang* Lectr.-in-Charge

**Journalism**

Sharif Al-Mughad, MA *Madr.*, *Stan* & *McG* Lectr.  
 3 Lectr.-f

**Sociology**  
 Jilani, M. S. Lectr.-in-Charge  
 Shalooel, G. S., MA *Pang.* Lectr.  
 Hammed, M. A., MA *Orn* Lectr.

Statistics		Zoology	
Hinat, A., MA <i>Pony</i>		Lectr	Qadri, M. A. H., DSc <i>Alg.</i> , PhD <i>Alg.</i> & Comb., IPAS Prof.
			Mohammad, A., MSc <i>Osm</i> , PhD <i>Lond.</i> (on leave) Reader
Urdu			Tufail, M., MSc <i>Alg.</i> , PhD <i>Exc</i> Lectr
Siddiqui, A. L., MA PhD <i>Alg.</i>			Tirmizi, Mrs. S. M., DPhil <i>Oxon</i> Lectr
Ali, M. H. S. S., MA <i>Mys.</i> , PhD <i>Lond.</i>	Reader		Huq, S. M., MSc <i>Osm</i> , PhD <i>Wales</i> Lectr
Qayyum, A., MA <i>Leck.</i>	Lectr.		Ahmad, M., MSc <i>Osm.</i> Temp. Lectr
Kashfi, A. K., MA	Lectr		Mahmud, S. H., MSc <i>Alg.</i> , PhD <i>Lond.</i> Temp. Lectr.
2 Instrs.			7 Instrs., 2 Res. Fellows

### ADMINISTRATIVE AND OTHER STAFF

Jt. Registrar S. M. Najmuddin, MA <i>Pahra.</i>	Librarian A. Moed, MA <i>DupLab Pony</i> (on leave).
Controller of Exams M. A. Rahim, BA. Asst Registrar (Exams) A. A. Qureshi, BA <i>Alg</i>	Chief Accountant M. S. Ansari Ins-
Asst Registrar (General) S. A. Hameed, MA	pector of Colls. Steward. M
<i>Alg</i> , Asst Registrar (Acad.) Dep	Yusufuddin, BSc.

### RECOGNIZED TEACHING COLLEGES

(All these colleges are in Karachi)

[IA, BA, etc., after the name of a coll means that courses are provided there for Intermediate Arts, BA, etc.]

A.P.W.A. GIRLS' COLLEGE, Lalukhet. IA, ISc, BA. Principal—Mrs Siddiqui, MB. 7 other Teachers	BCom. Principal—L. M. Khan, MA. 17 other Teachers
CENTRAL GOVT. COLLEGE FOR MEN, Nazimabad. IA, ISc, BA, BSc. Principal—S. S. Hussain 35 other Teachers.	KARACHI COLLEGE FOR WOMEN, Printress St IA, BA. Principal—Mrs. M. Qureshi, MA. 24 other Teachers
CENTRAL GOVT. COLLEGE FOR WOMEN, Frere Rd. IA, ISc, BA, BSc. Principal—Mrs Zamat R. Ahmad, MA <i>Lond.</i> , CertEd <i>Comb.</i> 51 other Teachers	NATIONAL COLLEGE. IA, ICom, BA, BCom Principal—H. Addi, MA. 20 other Teachers.
CENTRAL GOVT. TEACHERS' TRAINING COLLEGE, Nazimabad. BED, MED. Principal—Q. H. K. Bakhtia, DipEd <i>Lond</i> & <i>Comb.</i> , MA. 17 other Teachers.	N.E.D. GOVT. ENGINEERING COLLEGE, Burns Rd. BE (civil, mech. and electr.), dipl. in engin. Principal—S. M. Aizen, BSc <i>Maur.</i> , MICE. 37 other Teachers.
COLLEGE OF HOME ECONOMICS, near National Stadium. IA, BA(HomeEcon). Principal—Mrs. Sushila H. Lall, MA. 27 other Teachers.	OSMANIA COLLEGE, Nazimabad. IA, ICom, BCom Principal—S. A. Hashmi, MA MCom LLB. 14 other Teachers.
D. J. SIND GOVT. SCIENCE COLLEGE. ISc, BSc (pass). Principal—L. A. D'Souza, BA MSc. 38 other Teachers.	P.E.C.H. INTERMEDIATE COLLEGE. IA, ISc. Principal—Begum Majid Malik
DOW MEDICAL COLLEGE, Hospital Rd. MB BS. Principal—M. A. Shah, MS <i>Pony</i> . 54 other Teachers.	ST. JOSEPH'S COLLEGE FOR WOMEN, Saddar IA, ISc, BA, BSc. Principal—Sr. Mary Emily, BA DipEd <i>Lond.</i> 27 other Teachers.
ISLAMIA COLLEGE, Clayton Rd. IA, ICom, BA, BCom. Principal—G. M. Khan. 54 other Teachers	ST. PATRICK'S COLLEGE, Saddar. IA, ISc, ICom, BA, BCom. Principal—Rev. D'A. A. De'Souza, BE <i>Bom.</i> , MEd MSc <i>Wash.</i> 16 other Teachers.
JAMIA COLLEGE, Malir. IA, ISc, ICom, BA, BSc, BCom. Principal—S. M. Shaif, BSc <i>Lond.</i> 33 other Teachers.	SIND GOVT. COLLEGE OF COMMERCE AND ECONOMICS, Burns Rd. ICom, BCom. Principal—R. Rahman 15 other Teachers.
JINNAH COLLEGE, Nazimabad. IA, ISc, ICom,	SIND MUSLIM COLLEGE, Strachen Rd. IA, ISc, ICom, BA, BSc, BCom, MA. Principal—S. A. Kohathi. 85 other Teachers.

SINCE MOSLIM LAW COLLEGE, Strachan Rd. LLB. Principal—H. A. Rahman 16 other Teachers.

SIR SYED GHISL' COLLEGE, Nazimabad IA, ISC, BA. Principal—Mrs. Umme S. Zaman, MA. 35 other Teachers.

SYED RAZA ALI COLLEGE, Bivio Rd IA, ISC, ICom, BA, BCom Principal—S R K Rizvi, MA LT. 40 other Teachers

URDU COLLEGE, Princess St IA, ISC, ICom, BA, BSc, BCom, LLB (Urdu is the medium of instruction) Principal—Col Ataur Rahim. 55 other Teachers

## GENERAL INFORMATION

The Univ. of Karachi Act was passed by the central legislature in 1950, but the univ. did not come into existence till June 1951. It is an affiliating, examining and teaching univ., and its territorial jurisdiction extends only over Karachi. Hons. and postgrad. teaching and res. directly under the control of the univ. have been started in several depts. (see above).

FACULTIES AND DEANS Arts, Dr. A. H. Siddiqui (Islamic hist.); sci., Prof. M. A. H. Qadri (sociol.). The posts of dean of the fac. of comm., of educ., of agri. & technol., of Islamic learning, of law, and of med. are vacant.

UNIVERSITY PRINCIPAL. The new campus (foundation stone laid in 1957 by the president of Pakistan) is on the Country Club Rd., and consists of 1279 acres allotted by the govt. of Pakistan. The univ. has now moved to this new campus; among the bldgs. already completed there are those for the admin. block, fac. of arts, auditorium, phys. & chem. depts. as well as temp. blocks for other sci. depts. It is proposed to complete the construction programme in 3 phases, each of 3 yrs.' duration.

LIBRARY. 83,851 vols. Also 35 deptl. libraries to provide facilities for hons. and postgrad. study and res.

TEACHING HOSPITAL. Civil H., Karachi

THE GRADUATE SCHOOL OF BUSINESS ADMINISTRATION was formerly known as the Inst. of Pub. and Bus. Admin., established in 1955. G.S.B.A. became separate entity under Univ. of Karachi in 1961; financed by govts. of Pakistan and U.S.A., it aims to help improve quality of bus. admin. in Pakistan through educat., trng., res. and consultation programmes (incl. provision of service to bus. community and assembly and publishing of suitable material). Univ. of S. California acts in advisory capacity. G.S.B.A. offers courses for MBA of Univ. of Karachi and in-service programme for persons in employment who cannot study full-time. Minimum admission requirement: IA, ISC or ICom.

BUREAU OF (URDU) COMPOSITION, COMPILATION AND TRANSLATION. The purpose of the bureau is: (1) to standardize, compile and publish Urdu technical terms in all branches of learning, espec. sci., (2) to produce and translate text-books in

Urdu; and (3) to translate classics from foreign langs. into Urdu and vice versa. Dir. (with status of prof.) Major Afzal Hassan.

ADMISSION. Min. qualif. for entrance to the univ. other than professional courses is a pass at high sch. or such other exams. held under the auspices of a univ. or public bd. as are recog. by the univ.

All intermediate classes in arts, comm. and sci. have been transferred to a bd. of inter. and secondary educn.

FIRST DEGREE. 2 yrs.—LLB; 3 yrs. (post-inter)—BA pass & hons., BSc pass & hons., BCom, BHE, 3½ yrs.—BE, 3 yrs.—MB BS

HIGHER DEGREE. 1 yr. after bachelor's degree—BED; 2 yrs. after bachelor's degree—MA, MSc, MEd, MBA; 2 yrs. after master's degree—PhD

DIPLOMAS. 1 yr.—journalism, library sci.

CERTIFICATES. 9 mos.—Bengali, French, German, Italian, Spanish.

FEE. Univ. exems. from Rs. 30 to Rs. 100; tuition, Rs. 12 to Rs. 20 p.m. (for 10 months p.a.).

ACADEMIC YEAR. 3 terms. Aug. 15–Oct. 23; Nov. 1–Dec. 24; Jan. 9–May 14.

LANGUAGE OF INSTRUCTION. English in all subjects at all levels. Urdu in arts up to MA, in sci. up to inter. and in comm. up to BCom.

RECREATION. The univ. sports bd. organizes the activities of the univ. in this field. Inter-collegiate sports are arranged for hockey, cricket, badminton, football, volley-ball, tennis, table tennis, swimming and athletics.

PUBLICATIONS. Annual *Course of Study* for all exams., *Annual Report*, *Karachi Univ. Magazine* (annual); *Karachi Univ. Students' Union Magazine* (annual), univ. sci. teachers, in collaboration with other scientists of Pakistan, publish *The Scientist* (bi-annual); the dept. of econ. and comm. publishes the *Federal Economic Review* (quarterly), the dept. of Bengali publishes the *Bengali Literary Review* (bi-annual); *Venture* (Engl. lang. and lit. quarterly review); *Joreeda* (Translation Bureau journal), Urdu translation of *Suhail-Malik-i-fathur-rasul* (1st book of pol. sci. in Islam).

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men . . .	1404	160
Women . .	641	28
Total . . .	2045	188

In addition, there were 6945 students in recognised colls.

Distribution by Faculties. *Arts*, 1031; *sci.*, 1202 Total, 2233

*Included in the figures above are :—*

Postgraduate students, 1256.

New admissions, 1966 (full-time, 1718, part-time, 188)

Students from other countries, 24.

DIPLOMAS AWARDED (1960-61). BA pass, 864; BA honrs., 27; BHEc, 26; MA, 285; BSc pass, 518; BSc honrs., 102; MSc, 178; BCom, 332; BEd, 159; LLB, 250; MBA, 30; MPA, 23; MB BS, 153; BE (mech. & electr.), 32; BE (civil), 92; PhD (arts), 17; PhD (sci), 2; MLitt (arts), 20; MLitt (sci), 4.

DIPLOMAS AWARDED (1960-61) Journalism, 7; library sci., 13; engin' civil, mech & electr., 110

CERTIFICATES AWARDED (1960-61). German lang., 9; Spanish lang., 7; French lang., 32; Italian lang., 6

# UNIVERSITY OF THE PANJAB\*

## LAHORE

Founded 1882

Postal Address: Lahore, West Pakistan  
Cables and Telegrams: University, Lahore  
Telephone (Registrar): Lahore 3747

PATRON—THE PRESIDENT OF PAKISTAN (*ex officio*)  
CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)  
VICE-CHANCELLOR—M. SHABEF  
REGISTRAR—M. BAKIER, BSc Edin  
CONTROLLER OF EXAMINATIONS—B. ALI SHAIKH, MSc  
TREASURER—S. HAIDER, MA  
LIBRARIAN—A. RAHIM, BLS Trg, MA

## TEACHING STAFF

[†=Part-Time]

[(U)=post maintained entirely by the Univ.; (DSC)=Dyal Singh Coll., (FCC)=Forman Christian Coll.; (GC)=Govt. Coll., (HCC)=Hawley Coll. of Comm., (IC)=Islamia Coll.; (ICW)=Islamia Coll. for Women; (KEMC)=King Edward Med. Coll., (LMTCC)=Lady MacLagan Trg. Coll.; (LWC)=Lahore Coll. for Women; (MAOC)=Muhammadan Anglo-Oriental Coll.; (OC)=Oriental Coll.]

Arabic		Chemical Technology, Institute of	
Abdullah, S. M., MA MOL DLitt		Ahmad, N., DScTech Munich	
Principal (OC), (Urdu) Prof., Hd. of Dept (U)		Prof., Dir. of Inst. (U)	
Elahi, R. M. N. E., PhD Camb. & Paris, MA	Reader (U)	Khawaja, S. D., MSc Alg.	Reader (U)
Saram, A. S., Fazal Al Ashkar, HP HA	Maalvi (U)	Qureshi, A. K., MSc(Tech) PhD	Reader (U)
Noor-ul-Hassan, HA	Lectr. (U)	Rashid, A. A., MSc(Tech) BT	Sr. Lectr. (U)
Malik, Z. A., MA	Lectr. (U)	Tanweer, A. K., MSc(Tech) PhD	Sr. Lectr. (U)
Hassan, M. N., HA	Lectr. (U)	Banday, A. H., MSc(Tech)	Lectr. (U)
Khalil, M. F. H.	Visiting Prof.	Shama, M. D., MSc(Tech) (on leave)	Lectr. (U)
		Din, I. M., MSc(Tech) (on leave)	Lectr. (U)
		Naseer, M., MSc(Tech)	Lectr. (U)
		Saidi, M., MSc (on leave)	Lectr. (U)
		Ijaz, H., MSc	Lectr. (U)
		Komani, M. N., MSc(Tech)	Lectr. (U)
		Bader, T. A., MSc(Tech)	Lectr. (U)
		Chaudhry, A. G.	†Lectr. (U)
		Aziz, M. A., DIC, MSc PhD	†Lectr. (GC)
		Badr-ud-Din, MSc PhD, FRIC	†Lectr. (U)
		Hamid, N. A.	†Lectr. (IC)
		Naseer, M.	†Lectr. (IC)
		Ibrahim, M.	†Lectr. (HCC)
		Taj, A. H.	†Lectr. (MAOC)
		Shah, M.	†Lectr. (MAOC)
Astronomy		Chemistry, Institute of	
Zin-ud-Din, M., MA Alg., PhD Wales		Badr-ud-Din, MSc PhD, FRIC	Dir. of Inst. (U)
Curator of Observatory, Hd. of Dept (U)			
Bhatti, M. A., MSc	Lectr. (U)		
Rizvi, S. M. H., MA	Lectr. (U)		
Botany			
Lodhi, S. A., MSc Camb. & Paris			
Reader, Hd. of Dept (U)			
Hamid, A., MSc	Sr. Lectr. (U)		
Sheikh, K. H., MSc	Lectr. (U)		
Sheikh, M. Z., MSc PhD	Lectr. (U)		
Abidin, Z., DPhil MSc	Lectr. (U)		
Ilkhar, A., MSc	(on leave) Lectr. (U)		

\* Member of the Association of Universities of the British Commonwealth



Chughtai, M. I. D., MScTech PhD <i>Mawc.</i>	Alb, M., MSc	Lectr. (U)
FRIC	Siddiqui, S. F. A., MSc	Lectr. (U)
Faseeh, S. A., MA MSc PhD <i>Luch.</i>	Saleem, Z. A., MSc	Lectr. (U)
	Rahman, A., MSc	Lectr. (U)
Hussain, F., MSc PhD <i>Lond.</i>		
Hussain, A., MSc PhD <i>Lond.</i>		
	German, see Mod. Langs.	
Rehman, R., MSc PhD <i>Lond.</i>		
Tufail, M., MSc	History	
Nazari, M. A., MSc	Rashid, S. A., MA LLB	
Nabi, G., MSc		Prof., Hd. of Dept. (U)
Qari, M. R., MSc	Qureshi, A. H., MA PhD	Lectr. (U)
	Abbas, S. A., MA	Lectr. (U)

**Economics**

Akhtar, S. M., MA PhD <i>Lond.</i>		
	Prof., Hd. of Dept. (U)	
Abbas, S. A., MA MSc LLB <i>Alig.</i> , MSS		
PhD <i>Inst. for Soc. Studies (The Hague)</i>		
	Reader (U)	
Aurkzai, M. A. A. K., MA	Lectr. (U)	
Amil, M., MA	Lectr. (U)	

**Education and Research, Institute of**

Horn, W. E., MS EdD	Dir. (U)
Hatchak, J. J., MS PhD	Prof. (U)
Hutchinson, I. W., MS EdD	Prof. (U)
Boyd, C. C., BA MEd EdD	Prof. (U)
Steinle, L. E., MA	Prof. (U)
Mahabary, R. D., MCS EdD	Prof. (U)
Hanes, W. F., MA	Dn. of Libr. (U)
Ganes, R. T., BS MA EdD	Prof. (U)
Din, M., MA BT MAEd	Lectr. (U)
Malik, D. M., MA BT MAEd	Lectr. (U)
Omer, Z., BA BSc BEdSc	Lectr. (U)
Shaukat, Mrs. N., MA PhD	Lectr. (U)
Peroze, H., BA BT PhD	Lectr. (U)

**Fine Arts**

Ahmed, Mrs. Anna M., Reader, Hd. of Dept. (U)	
Iqbal, K., Dip Fine Art <i>Lond.</i> , BA	Sr. Lectr. (U)
Afzal, Mrs. Anwar, MA DFA	
	(on leave) Lectr. (U)
Malik, Mrs. Zakia, MA DFA	Lectr. (U)
Shamas, M., BA	†Lectr. (U)
Mazhar, Mrs. T., MA DFA	†Lectr. (U)

**French, see Mod. Langs.****Geography**

Ahmad, Kazi S., MA LLB <i>Alig.</i>	
PhD <i>Lond.</i>	Prof., Hd. of Dept. (U)
Kuraisy, K. U., MA <i>Alig.</i> , PhD <i>Lond.</i> & <i>Panj.</i>	Reader (U)
Elahi Miss Maryam K., PhD <i>Lond.</i> & <i>Panj.</i>	
MA	Sr. Lectr. (U)
Abbas, A. A., MA	Lectr. (U)

**Geology**

Davies, R. G., MSc PhD <i>Wales</i>	
	Prof., Hd. of Dept. (U)
Shams, F. A., BA <i>Cambr.</i> , MSc	Sr. Lectr. (U)
Latif, M. A., MSc <i>Lond.</i> & <i>Panj.</i>	Lectr. (U)

Alb, M., MSc	Lectr. (U)
Siddiqui, S. F. A., MSc	Lectr. (U)
Saleem, Z. A., MSc	Lectr. (U)
Rahman, A., MSc	Lectr. (U)

**German, see Mod. Langs.****History**

Rashid, S. A., MA LLB	
	Prof., Hd. of Dept. (U)
Qureshi, A. H., MA PhD	Lectr. (U)
Abbas, S. A., MA	Lectr. (U)

**International Affairs**

Husain, D., MA <i>Alig.</i> & <i>Panj.</i> , DSc <i>Cambr.</i>	
LLB	Prof., Hon. Hd. of Dept. (MAOC)
Wheeler, C. M., MA PhD <i>Georgetown</i>	
	†Lectr. (FCC)
Khan, B. A., MA PhD	†Lectr. (U)
Ali, S., MA	†Lectr. (U)
Akhtar, Prof. S. M., MA PhD <i>Lond.</i>	†Lectr. (U)

**Islamic Studies**

Siddiqui, A. D., MA LLB	
	Reader, Hd. of Dept. (U)
Mahik, M. A., MA	Lectr. (U)
Chaghatai, M. A., MA <i>DésL. Paris</i>	†Lectr. (U)
Ahmad, Y. H., MA	†Lectr. (U)

**Japanese Language**

Shawa, E., BA	Lectr. (U)
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**Journalism**

Siddiqui, M., LLB <i>Alid.</i> , MA <i>Stan.</i> & <i>Alid.</i>	
	Reader, Hd. of Dept. (U)
Khurshid, A. S., PhD <i>Amst.</i> , MA <i>JD</i>	
	Sr. Lectr. (U)

Ahmad, J., MA	†Lectr. (U)
Zafar, M., MA	†Lectr. (U)
Aziz, A. B., MA	†Lectr. (U)
Yamin, S. M., MA	†Lectr. (IC)
Brulvi, I., MA PhD	†Lectr. (OC)
Ahsan, A. S., MA	†Lectr. (OC)
Siddiqi, I. H.	†Lectr. (U)
Kaleem, M. A., MA	Lectr. (U)
Wahid, A. R., MA <i>Calif.</i>	Lectr. (U)

**Language Unit (Modern English)**

MacCarthy, P., MA <i>Cambr.</i>	Prof. (U)
Barker, P. R., BA PhD <i>Calif.</i>	Reader (U)
Gethin, R. H.	Lectr. (U)

**Mathematics**

Manzar, H., MA PhD <i>Durk.</i>	
	Reader, Hd. of Dept. (U)
Bhatti, S. U., MA	Sr. Lectr. (U)
Ahmad, M., MA DipStats <i>Aberd.</i>	†Lectr. (U)
Kazi, M. H., MA	Lectr. (U)
Chawla, L. M., MA DPhil <i>Oxon.</i>	†Lectr. (GC)
Roomani, F. D. A., MA	†Lectr. (DSC)
Rashid, S. A., MA	†Lectr. (IC)
Elahi, M. M., MA	†Lectr. (IC)

Bhatti, M. A., MSc  
Hafiz, G. M., MA  
Saleem, R. A., MA  
Riaz-ud-Din, MA PhD *Camb.*  
Resider, Phys. Dept (U)

†Lectr. (U)  
Lectr. (U)  
Lectr. (U)

Public Administration  
Drury, J. W., PhD  
Afzal, M., PhD *Camb.*  
Hd. of Dept (U)  
Officer on Special Duty (U)

## Social Work

Rashid, Miss Rafat, MA PhD *Cad.*  
Hd. of Dept. (U)  
Ashraf, M. S., MA MSW  
Ahmad, B., MA  
Ullah, Mrs. Qamar A  
Malik, M. A., MA  
Abbas, Mrs. R., MA MSc *Int for Soc*  
*Studies (The Hague)*, PhD Resch. Lectr (U)

## Sociology

Gardea, H. N., MA PhD  
Resider, Hd. of Dept. (U)  
Ahmed, M. T., MA PhD  
Fayyaz, M., MA  
Baqai, M. S., MA  
Phillips, M. M., MA PhD  
Basit, S. M. A., DPA *Int for Soc Studies*  
*(The Hague)*, MA Lectr (U)

Spanish, see Mod. Langs

## Statistics, Institute of

Zia-ud-Din, M., MA *Alig.*, PhD *Wales*  
Prof., Dir. of Inst. (U)  
Munir, A., DipStats *Aberd.*, MA  
Hassan, F., MA  
Anwar, S. M., MA

Turkish, see Mod. Langs.

## Urdu

Abdullah, S. M., MA MOL *DLat*  
Prof., Hd. of Dept. (U)  
Brelvi, E., MA PhD *Luck.*  
Azam, V., MA *Alid*  
Hussain, G., MA PhD

## Zoology

Ahmed, M., MSc *Alig.*, PhD *Chic*  
Resider, Hd. of Dept (U)  
Baker, A., PhD *Harc.*, MSc  
Yaqub, M., MSc  
Arslan, M., MSc  
Khan, D., PhD *Lond.* & *Panj.*, MSc

CENTRAL SUPERIOR SERVICES  
EXAMINATION CLASS

Baqir, M., PhD *Lond.*, MA  
Ahmad, Kazi S. D., LLB *Alig.*, PhD *Lond.*,  
MA  
Ahmad, M., MSc *Alig.*, PhD *Chic.*  
Azim, M. A., MSc PhD *Lond.*  
Qadir, A., MA  
Ata, M., MA LLB *Camb.*

## PAKISTAN

## Modern Languages

Rasool, S. H. A.  
(on leave) (French) Lectr., Hd. of  
Dept (U)  
Dierpartuk, P.  
Walid, M.  
Butt, A. A., DipEdu *Harp* *Machid*  
(on leave) (Spanish) Sr. Lectr., Hd. of  
Dept. (U)  
Qazi, Miss Nasim, MA DipSpanish  
Hafiz, A., DPhil *Harc.*  
(Turkish) †Lectr., Hd. of Dept. (U)  
Donloff, Elma  
(Russian) Lectr

## Persian

Baqi, M., PhD *Lond.*, MA  
Prof., Hd. of Dept (U)  
Ahsan, A. S., MA LLB *Alig.*  
Mirhaddad, G. J., MA MOL  
Lectr. (U)

## Pharmacy

Amin, M., MSc *Alig.* Reader, Hd. of Dept. (U)  
Salahuddin, MSc  
Ali, G., MSc  
Ashraf, M., MSc  
Birkaba, A. A., BPharm  
Hamid, A., MB BS PhD *Lond.*  
Aziz, A., MB BS PhD *Lond.*  
Qureshi, A. K., MSc PhD *Lond.*

## Physics

Pai, A. B., PhD *Prin.*, MSc  
Prof., Hd. of Dept (U)  
Riaz-ud-Din, MA PhD *Camb.*  
Chowdhry, A. G., MSc *Alig.*  
Ruder, R. C., DSc  
Shaukat, M. A., MSc  
Shah, M. A., MSc  
Fayyaz-ud-Din, MSc  
Toor, M. I., MSc  
Saleem, M., MSc  
Beg, H. A.

## Political Science

Hussain, D., MA *Alig.* & *Panj.*, DSc *Camb.*,  
LLB  
Khan, B. A., MA PhD  
Syed, A. H., MA *Che.*, PhD *Penn.*  
Ali, S., MA  
Shaikh, M. A., MA LLB  
Chughtai, M. D., MA DPhil *Oxon.*  
Aslam, K. M., MA  
Zakriya Nasim, MA  
Wheless, C. M., MA PhD *Georgetown*  
Hamid, A., MA PhD

†Lectr. (FCC)  
†Lectr. (GC)

Khan, S. A., MA  
Ajmal, M., MA PhD Lond.  
Yasuda, A. M.  
Khan, B. A., PhD MA

†Lectr. (U)  
†Lectr. (GC)  
†Lectr. (U)  
†Lectr. (U)

**SOCIAL SCIENCES RESEARCH CENTRE**  
Pfeffer, K. H., PhD Berl. Dir. (U)  
Khan, M. K. H. Assoc. Dir. (U)  
4 Res. Supervisors, 6 Asst. Res. Officers

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrars: S. A. Khan, MA (Gen.);  
C. F. Muhammad, MA (Admin.) Asst. Registrar  
(Academic and Gen.): Iqbal Hussain, BA, Asst.  
Controller of Exams. A. Q. Kureshi, BA, Asst.  
Treasurer: Saeed A. Khan Officer on Sp.  
Duty. G. R. Shaug, MA, Asst. Controller  
(Conduct) M. Hafeez-ur-Rehman. Audit  
Officer: C. F. Muhammad, MA. Univ. Med.  
Officer: A. Qayum, MB BS. Project Dir., New  
Univ. Campus: Lt.-Col. Shahbaz Khan, MA

Univ. Chief Engineer: Y. A. Siddiqui, BSc  
(Engg.) Dir. of Sports (Men): Ft. Lt. T. A.  
Khan, BA DPE. Dir. of Sports (Women): Miss Razia A. A. Beg, DPE Calc.  
BA Asst. Dir. of Sports: M. I. Butt, BA DPE  
Editorial Bd. for Encyclopaedia of Islam in Urdu  
M. Shafi, MA DOL (U) (Chairman), N. A.  
Nasir, MA (U) (Sec.), A. M. Omar, MA (Pub-  
licn. Officer). Officer-in-Charge, Univ. Press:  
Z. Iqbal, MA

## UNIVERSITY COLLEGES

**LAHORE, Hawley College of Commerce** (tel.: 2968). Facilities up to MCom. Principal—M. Hassan, MA. Teaching Staff: A. A. Hashmi, MA MCom LLB Agri, MBA Wash., Reader; M. M. Khan, MA LLB Alg, MCom Tax., Sr. Lectr.; K. U. Qureshi, PhD Lond. & Pay., MA (U), N. Durr, MBA Wash., MCom (U), M. Ibrahim, MA Edin., S. Ahmad, MA BCom (Trade Transport & Geog.), A. A. Siddiqui, MCom Agri, R. R. Alvi, MCom, S. A. Moghal, MBA Wash., Lectrs.

**LAHORE, Law College** (tel.: 4453). Courses up to LL.M. Principal—S. Imtiaz Ali, MA LLB Alg, LL.M. Stan & Pay. M. M. Rafique, BA Alg, LLB Lond., S. M. I. K. Mohal, BSc LLB, Prof., S. A. Mahmud, LL.M. Mich., H. U. Khan, LL.M., Lectrs.

**LAHORE, Oriental College** (tel.: 2573). PhD, MA, courses in Arabic, Persian and Urdu. Principal—S. M. Abdullah, MA: MOL DLitt. ARABIC—S. M. Abdullah, MA MOL DLitt, Hd. of Dept.; Noor-ul-Hassan, HA, Maulvi; A. S. Sarim, Fizi Al Andar, HP HA Additional Maulvi. PERSIAN—M. Baqir, PhD Lond., MA, Prof. & Hd. of Dept.; (Spoken Persian), Reader; A. S. Ahsan, MA LLB Alg., G. J. Kakhdam, MA MOL BT HA HP, Lectrs. URDU—S. M. Abdullah, MA MOL DLitt, Prof. & Hd. of Dept.; E. Becho, MA PhD Luck, Sr. Lectr.; V. Azam, MA Alld., Lectr. *Intercollegiate Staff*: A. Qayyum, MA (GC), G. M. Asar, MA (GC), M. B. Badakhshani, MA (GC), W. Qureshi, MA PhD (IC), I. Siddiqui, MA (IC), M. Sadiq, MA PhD (DSC), S. Zai ul Haq, MA PhD (GC), M. D. Ghaznavi, MA (IC)

## AFFILIATED COLLEGES

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.;  
\*—maintained by govt. of W. Pakistan]

### Professional

**BALAWALPUR, Govt. Training College** (tel.: 407). BEd. Principal—M. A. Haq, MA. Other staff, 19.

**LAHORE, \*Central Training College** (tel.: 3691). BEd. Principal—Nandkar Khan, BA Lond., MA. Other staff, 24.

**LAHORE, College of Home and Social Sciences** (tel.: 7122). BSc(HomeEc), BEd(HomeEc), MSc(HomeEc)Ed. Principal—Mrs. Mumtaz Bashir, MA. Other staff, 39.

**LAHORE, \*de Montmorency College of Dentistry** (Govt.) (tel.: 4605). BDS, MDS. Principal—H. R. Shah, FDSRCEd. Other staff, 9.

**LAHORE, \*Fatimah Jinnah Medical College for**

**Women** (tel.: 3767). MB BS. Principal—Shujaat Ali, PhD Darh., MD. Other staff, 49.

**LAHORE, \*Govt. College of Animal Husbandry** (tel.: 3414). BSc(AH). Principal—S. M. Sarwar, BSc. Other staff, 31.

**LAHORE, \*Islamia College for Women** (tel.: 3574). BEd. Principal—Mrs. Azra I. Rehman-khan, MA Sind, PhD Clark. Other staff, 38.

**LAHORE, \*King Edward Medical College** (tel.: 64101). MSc (in physiol.), MB BS, MD, MS, BPharm, DLO, TDD, DMRE, DMRD, DO, DCP, DA. Administrator—Riyaz-ud-Qadeer, FRCS. Other staff, 56.

LAHORE, \*Lady Macleagan Training College for Women (tel. 4447) BEd. Principal—Mrs. Saida A Malik, MA BT Alg., DipEd Lond Other staff, 21.

LYALLPUR, Govt. College of Educators for Primary Education BEd Principal—C. A. Ghafur, DipEd Lond & Camb, MA MSc Other staff, 8.

MULTAN, \*Nishtar Medical College (tel. 2770) MB BS Principal—M Ibrahim, PhD Birm. Other staff, 48.

RAWALPINDI, Pakistan Armed Forces Medical College (tel. 3031) TDD, DMRE, DPH. Commandants—Brigadier G Ahmad, MB BS Birm., MRCP Other staff, 25

### Arts and Science

BAHAWALPUR, Sadq College for Women (tel. 485). BA. Principal—Mrs. Maqbool B. Hassan, MA MLitt Camb Other staff, 20.

BAHAWALPUR, Sadq Egerton College (tel. 379). BA, BSc Principal—G Muhammad Shah, MA Other staff, 25.

BUDHWALA, Municipal College (tel. 186) BA Principal—F. Mahmood, MA PhD Calc. Other staff, 6.

CAMPBELLPUR, Govt. College (tel. 25) BA, BSc. Principal—Ashfaq Ali Khan, MA. Other staff, 25.

CHAKWAL, Govt. College. BA, BSc. Principal—Ch S. Bakhsh, MA. Other staff, 25.

D. G. KHAN, Govt. College (tel. 170). BA, BSc Principal—Q. A. Rashid, MSc. Other staff, 24.

GUJRANWALA, Govt. College for Women (tel. 2188). BA. Principal—Mrs. Saeda A. Khan, MA MOL LLB. Other staff, 21.

GUJRANWALA, Islamic College (tel. 2286). BA. Principal—M. A. Hussain, MA Altd. Other staff, 25.

GUJRAT, Govt. College for Women (tel. 271) BA. Principal—Miss N. M. Razvi, MAT Wash. MA BT Other staff, 20.

GUJRAT, Zamindar College (tel. 202). BA, BSc. Principal—G. Sarwar, MA Leeds & Pany. Other staff, 12.

JHANG, Govt. College (tel. 46). BA. Principal—S. Sher Ahmad, MSc. Other staff, 28.

LAHORE, Dyal Singh College (tel. 2905). MA, BA, BSc. Principal—Rafiq Ahmad Khan, MSc PhD Camb. Other staff, 49.

LAHORE, Forman Christian College (tel. 69142). MA, MSc, BA (hons.), BSc. Principal—R. M. Ewing, MA PhD Pany. Other staff, 50.

LAHORE, Govt. College (tel. 3792). MA, MSc, BA, BSc (hons.). Principal—N. Ahmad, MSc Calc., DIC, PhD Lond Other staff, 86.

LAHORE, Islamic College (tel. 5260). MA, MSc, BA, BSc. Principal—H. A. Khan, MA MLitt Camb. Other staff, 59.

LAHORE, Islamic College for Women (tel. 3574). BA, MA. Principal—Mrs. Asra I. Rehman Khan, MA, Sind, PhD Clark. Other staff, 35.

LAHORE, Kimwar College for Women (tel. :

4390). MA, BA. Principal—Miss P. Mangat Rai, MA Harv. Other staff, 33

LAHORE, Lahore College for Women (tel. 4523). MA, BA, BSc. Principal—Miss A. Ali Mohammed, DSc PhD Nott, MA BT JD. Other staff, 61.

LAHORE, Muhammadan Anglo-Oriental College (tel. 66300). MA, MSc, BA (hons.). Principal—D. Hussain, BA Camb., MA Alg. & Pany., LLB. Other staff, 31.

LYALLPUR, Govt. College (tel. 2224). BA, BSc. Principal—Karamat Hussain, MA. Other staff, 59

LYALLPUR, Govt. College for Women (tel. 2595) BA. Principal—Miss Nagma Abdullah, MA Other staff, 24.

LYALLPUR, Islamic College (tel. 2498). BA. Principal—H. Khan, MA Other staff, 35.

MIANWALI, Govt. College (tel. 7) BA, BSc. Principal—M. M. Anwar Other staff, 20.

MINPUR, Govt. College. BA. Principal—Shaikh M. Ahmad, MA LLB Alg. Other staff, 24.

MONTGOMERY, Govt. College (tel. 446). BA. Principal—Asghar Ali, MA Camb & Pany. Other staff, 39.

MONTGOMERY, Govt. College for Women (tel. 374) BA. Principal—Miss Majida Mehtab, MSc PhD Edu. Other staff, 18.

MULTAN, Emerson College (tel. 2440). BA, BSc. Principal—A. Hamid, MA DipEd Lond. Other staff, 56

MULTAN, Govt. College for Women (tel. 2637). BA. Principal—Miss Iqbal Malik, MA Alg. Other staff, 24.

MULTAN, Islamic College (tel. 2560). BA. Principal—Ch A. Ghafur, MA. Other staff, 11.

MIZAFFARGARH, Govt. College (tel. 74) BA, BSc. Principal—M. N. Bukhari, MA BT. Other staff, 13.

QUETTA, Govt. College (tel. 2530). BA. Principal—Karam Hussain, MA. Other staff, 39

RASHTWA, Talim-ul-Islam College (tel. 65). MA, MSc, BA (hons.). Principal—M. N. Ahmad, MA Oxon Other staff, 25.

RAWALPINDI, Gordon College (tel. 3014). MA,

BA, BSc. Principal—M. A. Q. Dasgouwar, MA N Y, DD *Mash*. Other staff, 52.

RAWALPINDI, *Govt College* (tel. 2512) BA, BSc. Principal—S M Anwar, MA. Other staff, 42.

RAWALPINDI, *Govt College for Women* (tel. 2522) BA, BSc. Principal—Mrs. Kanoo Siddiqui, MA *Lonk & Cinc.*, DT Luck., PhD *Cinc*. Other staff, 25.

SARGODHA, *de Montmorency College* (tel. 2116). BA, BSc. Principal—Abdul Ali Khan, MA *Oxon*. Other staff, 40.

SHEIKHUPURA, *Govt. College* (tel. 272). BA, BSc. Principal—Sardar Muhammad, MSc PhD. Other staff, 17.

SEALKOT, *Govt College for Women* (tel. 31). BA. Principal—Miss A. Munsmuddin, MA *Delft*. Other staff, 19.

SIMKOT, *Jinnah Islamia College* (tel. 144). BA. Principal—M. K. Naeem, MSc *Alig*. Other staff, 24.

SEALKOT, *Murray College* (tel. 127) MA, BA. Principal—R. C. Thomas, MSc *Alid*. Other staff, 35.

## GENERAL INFORMATION

Established in 1882, the univ. is the oldest in Pakistan and was the fourth to be established in the Indo-Pakistan sub-continent. Until 1919 the univ. confined its activities mainly to exams, the control of affiliated instns and the provision of instructn. in its oriental and law colls. It has, since 1919, undertaken the maintenance of univ. teaching depts for postgrad instructn. and res. and co-ordination of advanced teaching. Besides the univ. profs., readers and lectrs., sr. teachers of the local colls. are associated with univ. teaching. The univ. also maintains colls. of comm., law and oriental studies, and holds classes in arabs., journalism, Turkish, German, French, Russian and Spanish.

By the Punjab Univ. Act of 1956 the matric., inter., Pakistani and oriental langs. exams. were transferred from the univ. to the bd. of sec. educn., Lahore.

**CONSTITUTION.** Until 1959, a cttee. apptd. by the chancellor exercised the powers and performed the duties of the various univ. authorities provided for under the Punjab University Act of 1954. Elections to senate, the supreme body of the univ., were held in 1959 and senate and a other bodies, syndicate and academic council, functioned till Sept. 1961 when a new ordinance was issued by the governor repealing the act of 1954, abolishing senate and providing for the constitution of syndicate, academic council, bds. of studies, selection bd., cttee. for advanced studies and res., finance cttee. and planning & development cttee.

**INCOME (1961-62).** Total, Rs. 6,373,496 (govt. grants, 54.3 per cent., fees and other sources, 45.7 per cent.)

**UNIVERSITY FREIGHT.** New campus (2300 acres, outside Lahore) almost all bldgs. provided for in 1st phase are under constructn. 1st phase comprises inst. of educn. & res. (now in final stage), soc. scis. & humanities block, and nat. scis. & matha. block. 4 hostels for students are under constructn. and a more will be started soon (estomn. about 1000). Also under constructn. 13 houses for st. staff of univ. in residential area (59 more planned); student union's guest house, shops, cafeteria, etc. Constructn. of roads, water towers and facilities to be started shortly.

**LIBRARY.** Univ. libr. 176,100 vols plus 17,716 MSS in Persian, Arabic and Sansk., 440 periodicals. In addn., each univ. teaching dept. and coll. has its own libr.

**MUSEUMS AND LABORATORIES.** The univ. maintains well-equipped insts. of chem. and chem. technol., as well as the Kayshap Res. Inst. in bot. and phys. There are bot. and zool. labs. also in Govt. Coll., which the univ. shares. The depts. of bot. and zool. have museums.

**TEACHING HOSPITALS.** The following hospas. are recog. for providing facilities for undergrad. and postgrad. teaching in the fac. of med. Lahore: Mayo H., Lady Willingdon H., Sir Ganga Ram H. Multan: Nishtar Med. H., Rawalpindi Armed Forces Med. H.

**ADMISSION.** Students must have passed the inter. exam. of the bd. of sec. educn., Lahore, or equivalent exam. The univ. Calendar, vol. II, lists the exams of other univs., etc., recog. as equivalent to the corresp. exams. of the univ. Exams. of other approved univs. are recog. by the syndicate and academic council. After passing the inter. exam. students join 1 of the colls. affiliated to the univ. Grads. are admitted by colls. for the master's degree, but postgrad. teaching is mainly on a co-op. basis for colls. in Lahore and is conducted under the auspices of the univ.

**FIRST DEGREE.** 2 yrs. from FOL—BOL, 3 yrs. from inter.—BA, BA hon., BSc hon., BSc hon. sch., BCom, BPharm, BSW (soc. work), BSc(HonEco); 4 yrs.—BDS, BSc(AH); 5 yrs.—MB BS.

BA hon., BSc hon. may be taken in Arabic, astron., econ., Engl., geog., geol., hist., Islamiyyat, maths., Persian, philos., pol. sci., psychol., Sansk., stats., Urdu.

The BSc hon. sch. differs from the BSc hona. degrees. Candidates for the former are required to qualify in an Engl. prelin. exam. (in 1st yr.), in a no. of subseq. subjs. (in 2nd yr.), and in hons. sch. exam. (at end of 3rd yr.). There are hons. schs. in bot., chem. technol. and zool. BSc hona. sch. grads. may proceed to MSc hona. sch. (1-yr. course).

**HIGHER DEGREES** 1 yr.—BED, MSc hon. sch., MEd, MCom, BEd(HomeEc), MSc(HomeEc)Ed, MOL; 2 yrs from BA—LLB, 2 yrs—MA, MSc, MScTech, MSc(AH), MDS, MCom, LL.M., 3 yrs—MD, MS, PhD, LLD, 6 yrs.—DLitt, DSc, DOL. Postgrad teaching is provided in Arabic, bot., chem., chem. technol., econ., fine art, geog., geol., hist., Islamic studies, journalism, maths, Persian, pharm., philos., phys., physiol., pol. sci., psychol., pub. admin., social, soc. work, stats., Urdu, zool.

**HONORARY DEGREES** DOL, DLitt, DSc, LLD, MD

**DIPLOMAS** *Post-matric.*: 9 mos.—French, German, Japanese, Russian, Spanish, Turkish; 3 yrs.—comm. *Postgrad*: 3 mos.—DMRE pt. I, DPH pt. I, DA pt. I, 6 mos.—DMRE pt. II, DPH pt. II, DA pt. II, DMRD pt. I, DMRT pt. I, 9 mos.—TDD pt. I, phonetics & linguistics, DME; 15 mos.—TDD pt. II, 1 vi.—individual subjs. of specialization for BCom, clin. pathol., conveyancing, damage, gynaecol. & obstet., internat. affairs, Islamic studies, journalism, lib. sci., stats., DLO pt. I, DLO pt. II, DOMS pt. I (after registrable qualif. in med., surg. and midwifery), DOMS pt. II, 1 yr.—DMRD pt. II, DMRT pt. II

**CERTIFICATES** *Post-matric.*: 9 mos.—French, German, Japanese, Russian, Spanish, Turkish; 1 yr.—libr. sci., comm. *Postgrad*: 1 yr.—stats.

**RESEARCH**. To study the soc. and econ. problems of Pakistan a soc. sci. res. centre was set up in 1959 and functions as a res. dept. of the univ. It co-operates with all the teaching depts. in the soc. sci. and receives financial support from the Asia Foundation. It publishes res. reports and has entered into res. contracts with govt., internat. and private agencies.

**ALLIANCE**. There is an inter-coll. exchange programme between the Univ. of the Punjab and its affiliated colls. and the State Coll. of Washington, U.S.A. The exchange is over a broad range of subjs., incl. agric., bus. admin. & econ., educ., engin., home econ., sociol., soc. work. U.S. specialists in these fields work in univ. teaching depts. and in affiliated colls. The programme also provides for the supply of equipment and books to participating instns.

**STUDY LEAVE**. Study leave on three-quarters' salary (or Rs. 300 p.m., whichever is the greater) may be granted after 3 yrs' permanent service to members of the teaching or admin. staff who wish to pursue their studies outside Pakistan. Leave is granted for a period not exceeding 3 yrs. in all during the officer's service and not for more than 2 yrs. at one time.

**FEEs**. Univ. tuition fees BA hon. in fine arts—Rs. 96 p.a. BA hon. in langs.—1st yr., Rs. 60, and yr., Rs. 120, 3rd yr., Rs. 180. BSc hon. sch.—bot., chem. technol., zool.: 1st yr., Rs. 120, and yr., Rs. 144, 3rd & 4th yrs., Rs. 240 p.a. (chem., tech., 4th yr., Rs. 312). BSc—astron.,

stats.: 3rd & 4th yrs., Rs. 48 p.a., bot., zool. 3rd & 4th yrs., Rs. 48 p.a.; geol.: 1st & 2nd yrs., Rs. 144 p.a. BPharm—Rs. 144 p.a. MA—Rs. 96 p.a. MA (soc. work)—Rs. 144 p.a. MA (journalism, fine arts)—Rs. 288 p.a. MEd—Rs. 318 p.a. MSc—bot., phys., zool. (Rs. 240 p.a.), chem. technol., geol. (Rs. 312 p.a.) Diplo.—internat. affairs, Rs. 216 for 9 mos., stats., Rs. 144, French, German, Spanish, Rs. 72. Cmts.—French, German, Turkish, Spanish, Japanese, Rs. 54.

**ACADEMIC YEAR** 3 terms—Sept. 12–Dec. 22, Jan. 2–April 1, April 13–June 17.

**LANGUAGE OF INSTRUCTION**. Engl. is the medium of exam. in all subjs. except classical langs. (where the medium is the cognate Pakistan lang. or Engl.) or the classical lang. itself, at the option of the candidate), Pakistan lang. (the lang. concerned), and Islamiyat (Urdu, except for foreigners, candidates from E. Pakistan and students from schs. of European type joining any of the affiliated colls., who may use Engl.).

**THE UNIVERSITY FOREIGN INFORMATION BUREAU** advises and helps students who go abroad for advanced studies. Sec., Prof. Kazi S. Ahmad, MA LL.B. *Alg.*, PhD *Land*.

**RESIDENCE**. Undergrads in Lahore colls., unless living with their guardians, are ordinarily required to reside in coll. hostels or in hostels recog. by the univ. The univ. has started a hostel for women postgrad. students.

**STUDENTS' UNION** Provides a modern cafeteria for use of students and staff and facilities for discussion of student and internat. affairs.

**GRANTS TO COLLEGES** Grants are given by the univ. to affiliated colls. for prosecution of res., and to colls. affiliated to MA standard for library books required by MA students.

**EXTENSION LECTURES**. Extension lectures by eminent scholars are arranged by the univ. at Lahore and Muzaffar colls.

**PUBLICATIONS** *Univ. Calendar* (4 vols.), Rs. 32; *Annual Report*, *Univ. Gazette* (monthly), Rs. 4 p.a., *Exam. Syllabus*, Rs. 0.37–Rs. 2 each; catalogue of Arabic, Persian, Urdu and Sanskrit MSS in the univ. library, *Lahore, Past and Present*, by Dr. M. Baqir (1952), Rs. 15, *A History of the Punjab Univ.*, by J. F. Bruce (1933), 0/p., but a few copies available from univ., *Urdu Encyclopedia of Islam*, Vol. IV (17 fascicles) and first 2 fascicles of Vol. I, Rs. 3 per fascicle. The univ. has also publd. lessons, grammars, text-books, critical edns. of oriental texts, etc.

**UNIVERSITY BOOKSHOP**. The univ. has a sales dept. which sells the univ. publications.

**UNIVERSITY PRESS** (tel.: 66689). The univ. has its own press, which does all the printing work (incl. text-books) of the univ.

## THE YEAR 1961

RESIGNATIONS: A. U. Vaseen (O.C.), F. E. Nagi (chem.), M. Qasim (chem.), N. Saeed (chem.), M. M. Younis (chem.), M. A. Qazi (chem. technol.), M. Rafiq Shaikh (chem. technol.), G. Murteza (maths.); H. M. Hyde (hist.), A. N. A. Khan (hist.), C. A. K. David (fine arts), A. U. Shah (pharm.), M. Ahmad (pharm.), A. ul Hassan (pharm.), M. Rafiq (pharm.), Q. D. Khan (Islamic studies); M. A. Shah (soc. work).

HONORARY DEGREES: LL.D.—Akhtai Hussain, minister for educn. and sci. res., govt. of Pakistan.

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	8,908	9,255
Women	2,512	2,397
Total	11,420	11,652

DISTRIBUTION BY FACULTIES: *Arts and Lib.*, 626, *comm.*, 647, *educn.*, 956, *humanities & soc. sci.*,

*langu.*, *maths.* & *nat. sci.*, *military studies*, 17,532, *law*, 996; *med.*, 1834. Total: 22,591

Included in the figures above are —

Intermediate students, nil

Postgraduate students, 3144

New admissions, 5790

DEGREES AWARDED (1960-61): BA, 3616, BCom, 48, BDS, 13, BEd, 488, BPharm, 6, BEd(HonsEd), 10, BSc, 980, BSc(hons sch), 39, BScAgri, 135, BSc(AH), 67; BScEngg, 150, BSc(HonsEd), 74, LLB, 138, MA, 744, MEd, 38, MEd BS, 24, MCom, 25; MOL, 12, MSc(HonsEd), 3, MS, 2, MD, 1, MSc, 140; MSc(hons sch (chem., technol.)), 25.

DIPLOMAS AWARDED (1960-61): French, 10; German, 2; Spanish, 3, Turkish, 3, libr. sci., 14; internat. affairs, 5, journalism, 3, stats, 9, DPH, 24; phonetics & linguistics, 2; DMRE, 3.

CERTIFICATES AWARDED (1960-61): French, 16; Spanish, 4; Turkish, 2, comm, 14, phonetics & linguistics, 2

## UNIVERSITY OF PESHAWAR\*

Established 1950

Postal Address: Peshawar, West Pakistan  
Cables and Telegrams: University, Peshawar  
Telephone (Registrar) Peshawar 5301

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (ex officio)

VICE-CHANCELLOR—MOHAMMAD ALI, BA LLB

REGISTRAR—Lt.-Col F. KHATTAK, MA Pany

TREASURER—A. HASSON, MA Pany &amp; Cavo

DEPUTY REGISTRAR—M. NAZIR KHAN, MA Pany, DSc Gnat

## TEACHING STAFF

## Arabic

Ashraf, M., MA  
Khan, M. W.Jr. Lectr.  
Jr. Lectr.

Khan, B. M. A., LLB (on leave) Jr. Lectr.  
Khattak, Mrs. S. Sultan, MA Pany Jr. Lectr.  
Ghani, M., MA Jr. Lectr.  
Akhtar, M., MA Pany Jr. Lectr.  
Khan, S. S. Jr. Lectr.  
Ullah, G., MA Jr. Lectr.  
Muhammad, N., MA Jr. Lectr.

## Botany

Fazdi, M. A. F., PhD Kansas,  
MSc Alg. & Pany  
Ahmad, B., BSc Pany  
Khan, S., MSc  
Chughtai, S. R. Id., MSc  
Shah, S. H. H., MSc  
Mahmood, S., MSc  
Pirani, H. U., MSc  
Yusef, M. M., BSc Pany

Sr. Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Dems.

## English

Ali Khan, M., MA Alg. & Camb, PhD Lond.  
Prof. Hd. of Dept.  
Closs, H. M., MA DipEd Camb. Reader  
Harbottle, M. S., MA Camb. Reader  
Bashiruddin, MA Pany Reader  
Kamal, D., BA Camb. Sr. Lectr.  
Khaliq, J., MA BT Pany Sr. Lectr.  
Malik, R. S., MA Pany Sr. Lectr.  
Sarwar, C. M., MA Pany Sr. Lectr.  
Siddiqi, S., MA Osm. & Wis. Sr. Lectr.  
Osmani, M. A. H., MA Alg. & Wis. Sr. Lectr.  
Samad, A., MA Nag. Lectr.  
Shah, S. A., MA Jr. Lectr.  
Shams, M. A., LLB Alg., MA Alg. & Wis. Jr. Lectr.  
Ul-Ilbar, S., MA (on leave) Jr. Lectr.  
Mubain, I. M., MA Jr. Lectr.  
Elahi, E., MA Jr. Lectr.  
Ampad, M., MA Jr. Lectr.  
Alcena, A., MA Jr. Lectr.

## Chemistry

Siddiqi, M. S. H., MSc Osm, PhD Che.  
Prof. Hd. of Dept.  
Ali, M., MSc Alg., DPhil Osm. Reader  
Nowsherv, A. R., MSc Pany. & Syd. Reader  
Kazma, H. A., MSc Pany., BA Camb.,  
PhD Tor.  
Akhtar, M. A., MSc Sr. Lectr.  
Abadi, S. M. F., MSc Pany Jr. Lectr.  
Din, M. Z., MS Colorado, MSc Jr. Lectr.  
Gul, S., MSc Jr. Lectr.  
Zeb, J., MSc Pany Jr. Lectr.  
Zaidi, N. A., MSc Jr. Lectr.  
Hussain, S., MSc Jr. Lectr.  
Ghaffar, A., MSc Jr. Lectr.  
Ali, Taj, MSc Jr. Lectr.  
Ghani, S., MSc Dems.

## Economics

Matin, A., PhD Bonn, MA Reader  
Bokhari, N. A., MA Pany & Mich. Reader  
Akbar, M., MA Sr. Lectr.

## Geography

Savign, R. A. G., BA Lond. Prof.  
Zohar, S. M., MA Pany. & Lond. Reader  
Din, Hamid, MSc Alg. Sr. Lectr.  
Shah, S. H. Raz, MSc Jr. Lectr.  
Saud, M., MA Pany Jr. Lectr.  
Navid, M., MSc Jr. Lectr.

\* Member of the Association of Universities of the British Commonwealth



**Geology**

Khan, W. M., BSc Lond	St. Lectr.
Odell, N. E.	
Khan, M. A., MSc Karachi	Jr. Lectr.

**German**

Karine Khan, Mrs. A.	Jr. Lectr.
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**History**

Khan, M., MA PhD Durk	Reader, Hd of Dept
Khan, H., MA Pany, BA Lond	Sr. Lectr.
Haq, M., MA LLB Algh	Sr. Lectr.
Zaman, W.	Sr. Lectr.
Amwar, M., MA Pany	Jr. Lectr.
Ullah, I., MA Pany.	Jr. Lectr.
Khan, A. S., MA	Jr. Lectr.
Durrani, F. A., MA	Jr. Lectr.
Arbab, F. M. K., MA	Jr. Lectr.
Khan, F., MA	Jr. Lectr.

**Home Economics**

Siddiqi, Mrs. K.	Sr. Lectr., Hd of Dept.
Habiba, Mrs. S. B. Ahmad, BSc Colorado	Sr. Lectr.
Shamam, Miss A., MA	Jr. Lectr.
Khadija, Miss R., MA Karachi	Jr. Lectr.
Roy, Miss H., MA	Jr. Lectr.
Choudhri, Miss N. P., BSc	Jr. Lectr.
Shahwar, D., MA	Jr. Lectr.
Wazir, Mrs. E., BSc Colorado	Jr. Lectr.
Khalida, Miss K., BSc	Dema.
Sultana, Miss A., BSc	Dema.

**Islamiyyat**

Qudus, Maulana A., Munshi Pnol	
Maulvi Ahm Pany	
	Sr. Lectr., Actg Hd of Dept
Rahman, Q. M., MA	Jr. Lectr.
Shakoor, A.	Jr. Lectr.
Saeedullah, M., MA	Jr. Lectr.

**Mathematics**

Zasuddin, MA Pany.	Reader
Hayat, C. M., MA Pany.	Sr. Lectr.
Yusuf, M., MA Pany, BA Comb	Sr. Lectr.
Baloch, A. H., MA Pany.	Sr. Lectr.
Iftekharuddin, MSc	Jr. Lectr.
All, S., MSc	Jr. Lectr.
Mohammad, D., MSc	Jr. Lectr.

**Persian**

Mufti, M. H., MA Agra	
	St. Lectr., Hd of Dept
Naqvi, S. G. A. S., MA BT Pany., LLB	
PhD Tehran	Sr. Lectr.
Buland, M. N. H., MA BT MOL Pany.	
PhD Tehrau	Sr. Lectr.
Hussain, I., MA Algh	Jr. Lectr.
Yasmin, Rohmat, MA	Jr. Lectr.

**Philosophy**

Qayum, A., BT MA Pany	Sr. Lectr.
Shah, M. M., MA Pany	Jr. Lectr.

**Physics**

Minn, A. M., BSc PhD Lond	Prof., Hd of Dept.
Jan Khan, M., MA Oxon., MSc Pany	Reader
Khattak, M. A., BSc Mawc.	St. Lectr.
Khan, M. Y., BSc	Sr. Lectr.
Ahsan, M., MS Colorado, MSc	Sr. Lectr.
Naqvi, S. J. H., MSc Luck	Jr. Lectr.
Mohammad, F., MSc	(on leave) Jr. Lectr.
Khan, M. A., MSc	Jr. Lectr.
Roozullah, MSc	Jr. Lectr.
Saeedullah, MSc	Jr. Lectr.
Ansullah, MSc	Jr. Lectr.
Baqi, F., MSc	Jr. Lectr.
Hussain, N., BSc Pany	Dema.
Shah, M., MSc Pany	Dema.
Khan, R., BSc	(on leave) Demr.

**Political Science**

Saima, Mrs. A., MA LLB Algh,	
PhD Lond	Reader

**Pushto**

Qadu, Maulana A., MA LLB BT Algh	
	Reader, Hd of Dept
Niaz, J., MA Pany	Sr. Lectr.

**Urdu**

Faruqi, M. T., MA Dabir-e-Kamil Luck.	
Maulvi Ahm Pany, Fazl Kamil Alld	
	Sr. Lectr., Hd of Dept.
Jaffay, S. M., MA	Sr. Lectr.
Azhar, A. H., MA BT Pany	Jr. Lectr.
Ghaznavi, M. I. B. K., MA	Jr. Lectr.
Rahman, E., MA Pany.	Jr. Lectr.
Farooq, A. S., MA	Jr. Lectr.
Ahmad, S. S., MA	Jr. Lectr.

**Zoology**

Ahmad, S. M., MSc Pany, MS	Reader
Siddiqi, M. N., MSc Pany	Jr. Lectr.
Wahid, A., MSc Pany	(on leave) Jr. Lectr.
Khwaja, P., MSc Pany.	Jr. Lectr.
Ahmad, N., MSc Pany	Jr. Lectr.
Haider, S., MSc Pany	Jr. Lectr.
Shahwali, BSc	Dema.

**PUSHTO ACADEMY**

Qadir, Maulana A., MA LLB BT Algh.	Dir
Haq, S. A.	Res. Officer
Tair, M. N., MA	Asst. Res. Officer
Arbab, S. H., MSc	Jr. Lectr.
3 Publication & Prod'n Officers, 3 Asst	
Lexicographers, 1 Translator	

## ISLAMIA COLLEGIATE SCHOOL

Din, W., MSc BT *Alg.* Principal

## JUNIOR MODEL SCHOOL

Almas, Mrs Ifsat, BA BT *Pay*,  
MEd *Senior* Headmistress

Begum, Miss Razin, BA BT	Asst Mistress
Ahmad, Mrs. Naama, BA BT	Asst Mistress
Khanum, Miss Bushra, BSc BT	Asst Mistress
Ishaq, Mrs Aisha, BA BT	Asst Mistress
Fahat, Miss	Asst Mistress
Mahik, Mrs. Naam	Asst Mistress

## ADMINISTRATIVE AND OTHER STAFF

Controller of Exams. Inayatullah Khan, BA	Edun. Adil Khan, DipPE <i>Adms</i>	Asst. Dir.
Paym. Admn. Officer F U Khan, BA LLB	of Phys. Educn. A. Razaq, DipPE <i>Adms</i> , A	
<i>Alg</i> Asst. Registrar, Exams. S M. Shaikat,	Jen., BA <i>Pay</i> Exec. Engineer: S Khan,	
MA <i>Pay</i> Librarian. Maulana A S Qasim,	Business Officer. Aslam Khan, BCom <i>Pay</i>	
MS(LLB) <i>Western Reserve</i> , MA	Planning Officer Yusuf Ali Khan, BA <i>Stud</i>	
Dur., of Phys.		

## CONSTITUENT COLLEGES

(All located on university campus; | = Part-time)

[BScAgric, BEng, etc, after the name of a coll means that courses are provided there for BScAgric, BEng, etc.]

## AGRICULTURE COLLEGE. BScAgric (hons.).

Principal—Dr. F. L. Duley Asst to Principal—  
M S Roghien, MSc *Oregon State*, Prof., N.  
Ahmad Khan, MSc *Alg*, PhD *McC*, S. Kamal,  
MSc *Jama*, PhD *Missouri*, Readers, H. Khan,  
ARCS, BSc, M. Salim Kaul, MSc *Pay*, PhD  
Twigg, M. Hussain Khan, MSc *Pay*, MScAgric  
*Colorado State*, M. Attaulah Khan, MSc *Pay*,  
PhD *Syl*, M S Roghien, MSc *Oregon State*,  
St. Lectr., M I Baywa, MSc *Pay*, A. Razaq,  
MS *Colorado*, BE; J. Lectr., S B. A. Shah,  
MSc LLLB, S. R. Zeidi, MSc *Karachi*, A. F.  
Lodhi, MSc *Pay*; MS *Calif*, A. Ahmad Khan,  
MSc, M. H. Razi, MSc *Pay*, MS *Colorado*,  
S. B. Shah, MSc, M. Karim, MSc *Pay* 11  
Detars., 2 Palm Messengers.

## ENGINEERING COLLEGE BEng. Principal—

Prof. U. Durrani, BSc AssocEE *Sheff* CIVIL  
ENGIN.—Reader & Hd of Dept., S A Ali, BSc  
Mech, BSc(CE) MS *Utah*, Reader, M A  
Ullah, BE Onv., MS *Colorado State*, St. Lectr.,  
M. Saeed, BE, S. Khan, BE, S. Dan, BE, A.  
Khan, BE, N. Khan, BE; 1 Demr. ELECTR  
ENGIN.—Prof. U. Durrani, BSc AssocEE *Sheff*,  
Readers, M. S. Khatik, MSc *Tor* (on leave),  
M. Abdullah, BSc(Engg) *Alg*, MSc *Mow* (on  
leave); Sr. Lectr., M. Basha, BSc(Engg) *Dacca*,  
S. R. Siddiqui, BE, S. N. Ghani, BE, A. A. Khan,  
BE; 3 Demrs. MECH. ENGIN.—Reader & Hd of  
Dept., S. A. Khan, BSc *Alg*, MSc *Tor*; Sr.  
Lectr., S. I. H. Shah, MS *Colorado State*, BE  
(on leave), M J Khan, BSc(Engg) *Pay*, MS  
*Purdue*, M. Amanullah, BE, Hidayatullah, BE,  
A. Ali, BSc(Engg) *Pay*, R. Nawaz, BE; 2 Demrs.  
GENERAL.—Reader, S. A. H. Razi, DIC, MA  
Onv.; Sr. Lectr., R. Ahmad, BE, K. Durrani,  
BE, M. Yusuf, BE, Jr. Lectr., K. Nazem, MSc,  
1 Workshop Supt., 1 Workshop Asst Supt., 1  
Gen. Administrators.

ISLAMIA COLLEGE. BA, BA (Islamic theol),

BSc Principal—Prof M A Durrani, MA *Alg*,  
& *Law*.

KHYBER MEDICAL COLLEGE. MB BS Prin-  
cipal—Prof F M Khan, MB BS *Pay*, TDD  
*Mad*, FRCS *ANAL*—Asst. Prof., S. Tehir  
Hassan, MB BS MSc *Pay*, 6 Demrs. FORENSIC  
MED.—1 Demr., 1 Biochemist, 1 Registrar, 1  
Anesthetist. HWG.—1 Demr. MED.—Prof.,  
S A Razi, MB BS *Pay*, MRCP, Nour-ud-Din  
Azam, MB BS *Pay*, MRCP, Asst. Prof., I. Haq,  
MB BS *Pay*, MRCPED. MIDWIFERY AND  
GYNAECOL.—Asst. Prof., Miss Nazreen Firdaus,  
MB BS *Pay*, FRCS(ED), 2 Demrs. OPHTHALMO-  
LOGY AND ENT.—Assoc. Prof., Q. A. Jabbar, MB BS  
*Pay*, LO *Mad*, DOMS, Asst. Prof., M N  
Khan, MB BS DO PATHOL.—Prof., M A.  
Farooqi, MB BS *Pay*, MPH *Mich*, DSc *Paris*,  
Asst. Prof., S. Bahadur Khan, MB BS *Dacca*,  
MS *Colorado*, 6 Demrs. PHARMACOL.—Prof.,  
Inayat Khan, MB BS *Pay*, BSc PhD *Edin*.  
Asst. Prof., S A W. Shah, MB BS MSc *Karachi*,  
3 Demrs. PNEUMOL.—Prof., M I Ali, MB BS  
MSc *Pay*, PhD *Calif*, MD, Asst. Prof., Z.  
Ahudin, MB BS *Pay*, MSc *Karachi*, 3 Demrs.  
SURG.—Prof., S A R. Gardner, MB BS *Pay*,  
TDD *Mad*, FRCS, S. A. R. Gardner, MB BS *Pay*,  
FRCS, FRCS(ED), H. Rehman, MB BS *Pay*,  
FRCS(ED), Asst. Prof., I C Ahsan, MB BS  
*Pay*, FRCS(ED), S. F. Shah, MB BS *Pay*,  
FRCS, FRCS(ED) 1 CERECULOSIS AND CHEST DIS.—  
Assoc. Prof., A. Gohar Khan, MB BS *Pay*, TDD  
*Wales*.

LAW COLLEGE LLLB Hon Principal—S. M.  
Khan, LLLB *Alg*, Readers, S B. Ahmad, BA  
Onv., LL.M. Onv. & *Dal*, A. Razaq Khan, BA  
LLB Onv., Sr. Lectr., M N Khan, LL.M.  
*Mich*, BA LLLB, N. Ahmad, BA LLLB; 1 Lectr.,  
1 Ghaznavi, BA LLLB Onv., LL.M. *Low*, M M.  
Elahi, BA DipJourn., S B Khan, BA LLLB  
*Pay*, J. Lectr., M. A. Kundi, LLLB, A.

Ghafoor, LLB, P. Akhtar, LLB; Res. Scholars, M. M. Iqbal, LLB.

TEACHERS' TRAINING COLLEGE BED. Principal—S. Y. Shah, MA Lond., DipEd Brit.,

Reader, A. H. Akbar, MA BT Panj., MED Florida; Sr. Lectrs., M. I. K. Sulaiman, BSc MED Alg., A. W. Siddiqi, MED DipEd Osm., MA Alg.; Jr. Lectrs., A. Khaliq, BED MSc, M. Jamshaid, BT MED Panj.

## AFFILIATED COLLEGES

ABBOTTABAD, Govt. College BA, BSc. Principal—M. J. Khan, MA PhD. 24 other Teachers.

ABBOTTABAD, Govt. College for Women BA, BSc. Principal—Miss Gauhar Sultana, MA Panj. & Ill., MEd. 18 other Teachers.

BANNU, Govt. College BA, BSc. Principal—M. Raza Khan, MScAgric Panj. 22 other Teachers.

D. I. KHAN, Govt. College BA, BSc. Principal—N. D. Ahmad, MA LLB Alg. 23 other Teachers.

KORAT, Govt. College BA, BSc. Principal—E. Khan, MA LLB Alg., PhD Bonn. 21 other Teachers.

MARDAN, Govt. Abbas Memorial College. BA, BSc. Principal—M. I. Sethi, MA Panj. 24 other Teachers.

PESHAWAR, Edwards College BA, BSc. Principal—P. Edmonds, MA DipEd Idelb., PhD Bonn. 21 other Teachers.

PESHAWAR, Govt. College FA, BA. Principal—M. A. Siddiqi. 27 other Teachers.

PESHAWAR, Govt. Frontier College for Women. BA, BSc. Actg. Principal—Miss Asif Jaleel, MSc Lach. 30 other Teachers.

PESHAWAR, Pakistan Forest Institute. BScFor. Principal—M. Habib Khan, BSc Panj. 18 other Teachers.

PESHAWAR, St. Francis Xavier's College for Women. BA. Principal—Sister M. Attracts, MA Panj. 11 other Teachers.

SAIDU SHARIF (SWAT STATE), Yakubabad College. FA, BSc, BA, BSc. Principal—Kh. Mohammad Ashraf, MA. 27 other Teachers.

## GENERAL INFORMATION

The foundation stone of the univ. was laid in 1950 by the Hon. Mr. Liaquat Ali Khan, then prime minister of Pakistan.

Twelve colls. which provide courses up to the level of BA and BSc are affiliated to the univ., and there are six constituent colls. under the direct control of the univ. All postgrad teaching is controlled by the univ. There are postgrad classes in arts, educn., econ., law, oriental studies, sci., and plans for the next 5 yrs. include the provision of postgrad classes in many subjs. not already covered. There are also undergrad courses in engin., home econ. and med.

In accordance with the decision of the govt. of Pakistan and recommendations of the commission on natl. educn., the univ. constitution was revised, Sept. 1961. Rules for exams. have also been revised. Pass and hona. courses (3-yr. courses after inter) have been introduced and matric. and inter. are no longer within jurisdiction of univ. The bd. of inter. and sec. educn. started functioning April 1961.

CONSTITUTION. The univ. is governed by a private body, the syndicate, which consists of the vice-chancellor, dir. of educn., Peshawar, chairman of bd. of inter. and sec. educn., Peshawar, and reps. of univ. profs., principals, registered grads. and prov. natl. legislature. The syndicate is nominated for a period of 2 yrs. The vice-chancellor is the chairman. The academic council is the supreme acad. body which consists of all univ. profs., principals of constituent colls.,

100s. of affiliated colls. and other educationalists and public men. Besides there are bd. of studies, selection bd., office for advanced studies and res., finance cttee. and planning and devel. cttee. to assist the academic council and syndicate.

INCOME (1961-62). Rs. 9,877,711 (foss., Rs. 1,657,011, govt. grants (recurling), Rs. 3,087,700, (non-recurling), Rs. 5,133,000).

FACULTIES AND DEANS. Under revised constitution facs. and deans have been abolished.

UNIVERSITY PREMISES. The univ. is located on a campus of about 800 acres outside the Peshawar cantonment.

LIBRARY. Central library: 41,450 vols. (incl. bound vols. of periodicals) plus 562 MSS. in Persian, Arabic and Pushto. In addition, each dept. has its own library.

ADMISSION. Min. qualif. for entry to univ. is passing of inter. exam. of a Pakistan univ., bd. of inter. and sec. educn., or equivalent exam.

FIRST DEGREE. 3 yrs. post-inter.—BA pass, hona., BSc pass; hona.; 4 yrs. post-inter.—BScFor hona., BE (avul. electr. or mech.); 5 yrs. post-matric.—BA (Islamic theol.), BSc (home econ.), BScAgric hona.; 5 yrs. post-inter.—MB BS.

HIGHER DEGREE. 1 yr. after bachelor's degree.—BT, 2 yrs. after bachelor's degree.—MA, MA (oriental learning), MSc, LLB.

## HONORARY DEGREES LL.D

DIPLOMA. 2 yrs post-matric.—dipl. in French, German.

PRIVATE CANDIDATES, i.e. those in full-time employment living in the univ. area, may sit certain exams without being required to attend classes.

ACADEMIC YEAR. 3 terms mid-Sept.—end Dec.; early Jan.—end March, mid-April—mid-June.

EXTENSION WORK. Extension lectures are given in univ. and affiliated colls by univ. staff and others.

STUDENT RESIDENCES. 13 hostels accommodate about 1600 men, 3 girls' hostel accommodate 200.

STAFF RESIDENCES. Residential accommodation is provided on the univ. campus for all staff members.

PUBLICATIONS. *Calendar* (annual); *Journal* (annual); *Brochure*; *Annual Report*; *Gazette*; *Courses of Studies*; *Exam. Regs. & Text Books*; *Exam. Results*.

UNIVERSITY PRESS. The univ. has its own press which prints the *Calendar*, and *Courses of Studies*, etc., in the various subjects.

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	University	Islamic Coll
Men	1638	264
Women	211	—
Total	1849	264

All students are full-time.

Distribution by Subjects. *Agric.*, 326; *bot.*, 29; *chem.*, 67; *econ.*, 49; *educn.*, 106; *engng.*, 344; *Engl.*, 50; *geog.*, 35; *geol.*, 12; *hist.*, 53; *home econ.*, 64; *Islamic*, 5; *law*, 211; *maths.*,

31; *med.*, 358; *Physics*, 34; *Psychol.*, 7; *Phys.*, 40;  *Urdu*, 28. Total 1849.

Included in the figures above are:—

Postgraduate students, 673

New admissions, 992.

Students from other countries, 11. (Countries from which largest numbers came: Africa, 5; Iran, 4)

DEGREES AWARDED (1961) BA, 444; BA (Islamic theol.), 13; BSc, 218; BScAgric. honrs., 13; BScFor. honrs., 12; BSc (home econ.), 4; BT&BEEd, 84; MA, 121; MSc, 41; LLB, 71; BE, 34; MB BS, 39.

## UNIVERSITY OF RAJSHAHÍ\*

Established 1951

Postal Address: Rajshahi, East Pakistan  
Cables and Telegrams: University, Rajshahi  
Telephone: Rajshahi 171

CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (ex officio)

VICE-CHANCELLOR—M. AHMED, MA PhD Lond

TREASURER—A. S. CHOUDHURY, BA BL

REGISTRAR—A. R. JOARDER, MA Alg

DEPUTY REGISTRAR (ADMINISTRATION AND ACCOUNTS)—M. KHAN, BA Calc., LLB Dacca

DEPUTY REGISTRAR (ACADEMIC)—A. M. KHAN, MA Dacca

LIBRARIAN—A. RAZZAQ, MA Dacca

## TEACHING STAFF

[†=Part-Time]

## Bengali and Sanskrit

Haq, M. E., MA PhD Calc	Prof
Islam, M. M., MA Dacca, PhD	(on leave) Reader
Bhattacharyya, S. N., MA Calc	Lectr
Mannan, Q. A., MA Dacca	(on leave) Lectr
Islam, M. N., MA Dacca	Lectr

## Chemistry

Latif, K. A., MSc Dacca, MS PhD Ohs	Reader
Chowdhury, F. H., MSc Dacca, PhD Mems	Reader
Das, N. C., MSc Dacca	Lectr
Ahmed, A., MSc Dacca	(on leave) Lectr
Rahim, Z., MSc Dacca	Lectr
Ahmed, A. K. Shamsuddin, MSc Dacca, PhD Sheff	Lectr
Satter, A., MSc	Lectr
Shamsuzzoha, MSc Dacca, BSc Lond	(on leave) Lectr
De, K. K., MSc	Lectr

## Commerce

Islam, M. S., MA Dacca, MA (Econ) Mems	Reader
Hossain, M., MCom Dacca, PhD Frau., AM Mems	Reader
Mondal, A., MCom Dacca	Lectr
Talukdar, M. A. A., MCom Dacca	Lectr
Ahmed, S., MA	(on leave) Lectr

## Economics

Haq, M. T., MA Dacca, MSc Lond, PhD Mems	Reader
--	--------

Khondker, R. H., MA Dacca, PhD Lond	(on leave) Reader
Hossain, M., MA Dacca & Mems, PhD Lond	Reader
Hossain, S. S., MA Cal.	Lectr
Mondal, M. S., MA	Lectr
Ahmed, S. A., MA Dacca	(on leave) Lectr
Mazur, S., MA Dacca, PhD Bonn	Lectr

## English

Saddiqui, Z. R., MA Dacca & Ohs.	(on leave) Reader
Islam, A. M. N., MA Dacca, Dip Ling Studies Lond	Lectr
Ali, M., MA Dacca, BA Ohs.	Lectr
Ahmed, A., MA Dacca	Lectr
Khan, A. H., MA Dacca	Lectr
Ahmed, S., MA Dacca	Lectr

## Geography

Patel, A. M., MA Alg. & Lond	Reader
Saddiqui, M. I., MSc Alg., MA Kausar	Lectr
Shamshi, F., MA Alg.	Lectr
Arefin, S., MA Alg.	Lectr
Moniruzzaman, A. Y. M., MA	Dem.

## History

Mallik, A. R., MA Dacca, PhD Lond	Prof
Ahmed, A. F. S., MA Calc. & Pans., PhD Lond	Reader
Akanda, S. A., MA Dacca	Lectr
Rahman, K., MA Dacca	Lectr
Imam, A., MA Dacca & Lond	(on leave) (Indian Archaeol.) Lectr

\* Member of the Association of Universities of the British Commonwealth

Rahman, M. H., MA LLB Dacca,  
BA Oson.  
Hussain, Mrs. S., MA Dacca & Lond

Lectr.  
Lectr.

Huq, S. A., MSc  
Khalil, F., MSc Dacca

Lectr.  
Lectr.

### Islamic History and Culture

Bari, A., MA DPhil Oson.  
Hussain, A. B. M., MA Dacca, PhD Lond.  
Hossain, M. M., MA Dacca  
Rahman, M. A. Calé.  
Jondai, S., MA  
Qumam, Mrs., MA

Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Philosophy

Jamil, K. M., MA Lond., DLitt Patu  
(on leave)

Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Law

Rahman, S. S. Z., MA LLB Alig,  
LLM Lond.  
Shahabuddin, M., LL.M. MA Comb.  
Chowdhury, A. A. H., MA LLB Alig  
(on leave)  
Rahman, M. H., MA LLB Dacca,  
BA Oson.  
Khan, A. L., BL  
Alam, A., BL Calé.  
Huq, A., BL Calé.  
Bux, M., MA BL Calé.  
Sarkar, K. C., MA BL Calé.  
Bakht, M. S., BL Calé

Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Physics

Hussain, A., MSc Dacca, PhD Lond.  
Sarkar, M. R., MSc Dacca, PhD Lond.  
Choudhury, S. A., MSc Dacca  
Siddiqui, M. H., MSc Dacca  
Sarkar, A. Q., MSc Dacca  
De, H. B., MSc Dacca & Ohio  
Bhattacharjee, S. P., MSc Dacca

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Psychology

Mogham, S. M., MA Alig, PhD Lond.  
Rahman, S. M., MA Patna  
Zalua, Mrs., MSc MB BS Calé.  
Jundai, M., MA Patna  
Islam, A., MA Patna  
Wassan, M., MA LLB Alig, PhD Lond.  
Khanam, Mrs. Mahamada, MA

Prof.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Mathematics

Hussain, S. Q., MSc Patna & M.I.T.,  
PhD Lond.  
Rahman, M. H., MA Alig., BA Comb.  
Yehya, S. M., MA Patna, BA Comb.  
PhD Bm.  
Mahabuddin, M., MSc Calé.  
Huq, R., MSc Dacca & Munc. (on leave)  
Yakya, Q. A. M. M., MSc Dacca

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Statistics

Hossain, K. M., MA Dacca,  
MSc (Econ) Lond.  
Hoque, A. K. M. S., MSc Dacca, MA  
Huq, M. S., MSc Dacca

Reader  
Lectr.  
Lectr.  
Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Provosts of Halls: A. R. Millick, MA Dacca,  
PhD Lond.; M. E. Haq, MA PhD Calé.  
Inspectors of Cells: S. Ahmed, MA Dacca  
Controller of Exams: M. A. Dun, MA BT Calé  
Med. Officer: . . . . . Exec. Engineer: M.

Asad Hossain, BSc(Engin) Dacca Devel.  
Officer: . . . . . Proctor: M. Huda, MA  
Dacca, PhD Lond. Dir. of Phys. Educn.: I.  
Ahmed, BPhysEd Oregon

## AFFILIATED COLLEGES

[IA, IIS, BA, etc., after the name of a coll means that courses are provided there for Intermediate Arts, Intermediate Islamic Studies, BA, etc.]

BAGHERAT, *Profulla Chandra College* (founded 1918), P.O. Bagherat, Khulna IA, ISc, ICom, BA, BA hons in Arabic, philos. and Engl., BSc Principal—M. A. Awwal, MA 26 other Teachers

BOGRA, *A.J.I. College* (1929), P.O. Bogra IA, ISc, BA, Principal—M. Ekhlai, MSc. 24 other Teachers

DAULATPUR, *Bargul College* (1902), P.O. Daulatpur, Khulna IA, ISc, ICom, BA, BA hons. in Engl. and philos., BSc. Principal—A. S. Ahmed, MA. 42 other Teachers.

DINAJPUR, *Suresh Nath College* (1942), P.O. Dinajpur IA, ISc, ICom, BA, BCom. Principal—S. M. Nadevi, MA. 28 other Teachers

DINAJPUR, *Thakurgaon College* (1959), P.O. Thakurgaon IA, BA. Principal—A. Karim. 6 other Teachers

GARHAMPURA, *Gauhati College* (1947), P.O. Garhampura Rangpur, IA, ISc, BA. Principal—K. M. A. Hossain, MA. 15 other Teachers

JESSORE, *Michael Madhusudan College* (1941),

P.O. Jessore. IA, ISc, ICom, BA, BCom. Principal—A. Hai, MA. 28 other Teachers.

KHULNA, *Aswaz Khan Commerce College* (1953). P.O. Khulna. ICom. Principal—J. K. Das, MA. 11 other Teachers.

KHULNA, *Gulfi College* (1940). P.O. Khulna. IA, BA. Principal Prof.-in-Charge—Mrs Anwara Begum. 12 other Teachers.

KUSTHA, *Kustha College* (1942). P.O. Kustha. IA, ISc, ICom, BA, BCom, BSc, BA hons. in Engl. and Bengali. Principal—M. U. Bhuiyan, MA. 29 other Teachers.

MAGURA, *Magura College* (1940). P.O. Magura. Jessore. IA, IIS, BSc. Principal—M. Rahman, MA. 13 other Teachers.

NAOGAON, *Naogaon College*, P.O. Naogaon. Rajshahi. IA, BA. Principal—. 6 other Teachers.

NARAIL, *Victoria College* (1886). Narail. P.O. Ratarganj, Jessore. IA, ISc, BA. Principal—A. Kader, MA. 11 other Teachers.

NATORE, *N.S. College* (1946). P.O. Natore. Rajshahi. IA, ICom, BA, BCom. Principal—M. Ahmed. 11 other Teachers.

NAWABGANJ, *Nawabganj College* (1957). P.O. Nawabganj, Rajshahi. IA, ICom, BA, BCom. Principal—M. Ayazuddin. 17 other Teachers.

NILPHAMARI, *Nilphamari College* (1958). P.O. Nilphamari, Rangpur. IA, BA. Principal—Enajuddin Ahmed, MA. 12 other Teachers.

PADMA, *Edmond College* (1898). P.O. Padma. IA, ISc, ICom, BA, BSc, BA hons. in econ., maths and Bengali, BSc hons. Principal—A. Haq, MA. 26 other Teachers.

RAJSHAHI, *Rajshahi City College* (1958). IA. Principal—S. Ahmed, MA. 10 other Teachers.

RAJSHAHI, *Rajshahi College* (1828). P.O. Rajshahi. IA, ISc, ICom, BA, BSc, BCom, BA hons. in Engl., Bengali, Arabic, hist., Islamic hist., econ., pol., philos., maths, BSc hons. in maths, phys. and chem. Principal—A. Hye, MA. 64 other Teachers.

RAJSHAHI, *Rajshahi Medical College* (1958). P.O. Rajshahi. MB BS Administrator—Lt.-Col. Barinavaddan. Principal—Lt.-Col. G. Ahmed. 13 other Teachers.

RAJSHAHI, *Teachers' Training College* (1956). P.O. Rajshahi. Dipl. in educn. Principal—A. N. M. Chowdhury. 12 other Teachers.

RANGPUR, *Carmichael College* (1916). P.O. Rangpur. IA, ISc, ICom, BA, BSc, hons. in Bengali, econ. and phys. Principal—Elia Ahmed, MA. 36 other Teachers.

SAIDPUR, *Quaid-e-Azam College* (1948). P.O. Saidpur, Rangpur. IA, ICom, BCom. Principal—M. Hassan, MA. 10 other Teachers.

SURAJGARH, *Surajgarh College* (1940). P.O. Surajgarh, Pabna. IA, ICom, BA. Principal—S. A. Ali, MA. 16 other Teachers.

## GENERAL INFORMATION

Before the partition of Bengal in 1947 the Univ. of Dacca was purely residential and the jurisdiction of the Univ. of Calcutta extended throughout Bengal. In August 1947 the Univ. of Dacca assumed the responsibility of affiliating all those colls. in E. Bengal which had formerly been under the jurisdiction of the Univ. of Calcutta; this resulted in the centralization of all higher educn. at Dacca, an immediate effect being overcrowding in degree and postgrad. classes. The need for another univ. was realized and the govt. chose as its location Rajshahi where the Govt. Coll., founded in 1828, had a high reputation. As long ago as 1919 the Sadler commission had indicated the suitability of Rajshahi as the site for a univ. in N. Bengal. The univ. was founded on July 1, 1953. Its present territorial jurisdiction extends over the Rajshahi div. and pt. of Khulna div. (pop. approx. 15,082,240).

Rajshahi Univ. confines its activities to teaching of bacc. and postgrad. courses in arts, and sci., pass, MB BS and BEd courses are available in affiliated colls. Teaching at the univ. has been organized in Engl., econ., comen., philos., psychol., hist., Islamic hist., maths., phys., chem., geog., stats., law and Bengali lang. & lit.

**CONSTITUTION.** The chief exec. body of the

univ., known as syndicate, is composed of 6 ex-officio and 5 nominated members. The ex-officio members are: 1. the vice-chancellor (chairman), treasurer, dir. of pub. instrcn., E. Pakistan, pres. of E. Pakistan educn. bd., group of 2 deans of facs. The chancellor nominates 5 members incl. 2 registered grads. and a principal of affiliated colls. The academic council, the focal and body of the univ., consists of the vice-chancellor (chairman), profs., deans of facs., hds. of depts., librarian, reps. of affiliated colls. and other educn. interests. The council is responsible for courses of studies, teaching programmes, award of degrees, maintenance of acad. standards and all other acad. matters.

**INCOME** (1960-61). Rs. 1,778,691 (govt. grant, 36.3 per cent.; fees and other sources, 43.5 per cent.).

**FACULTIES AND DEANS.** Arts, M. T. Haq (econ.); educn., Principal A. N. M. Chowdhury, econ., . . . , law, S. S. Z. Rahman; med., (Principal) Lt.-Col. G. Ahmed, sci., A. Husain (phys.).

**UNIVERSITY CAMPUS.** The univ. devel. scheme envisages the estab. of a unitary teaching residential univ. on a 1000-acre campus in the

suburbs of Rajshahi town. A detailed master plan has been prepared. Within the framework of the over-all scheme, embodied in the master plan, the 5-yr. development scheme, phased on 5-yr. basis, covering the second 5-yr. plan period (1960-65), has been prepared. The bldg. programme has been proceeding according to schedule.

**LIBRARY** Approx. 40,000 vols. Primarily for books and postgrad. teaching and res. work.

**FIRST DEGREE.** BA, BA (hons), BSc, BSc (hons), BCom, BCom (hons), 3 yrs after inter. MB BS, 4 yrs after inter. Degrees cannot be taken by pt-time or evg. study.

**HIGHER DEGREE.** BEd, 1 yr after degree, LL.B., 2 yrs after degree, MA, 2 yrs after BA or 1 yr after BA (hons); MSc, 2 yrs after BSc or 1 yr after BSc (hons), MCom, 2 yrs after BCom or 1 yr after BCom (hons), PhD in arts, 2 yrs after MA, PhD in sci., 2 yrs after MSc.

The Univ. does not award any HONORARY DEGREES.

**RESEARCH FACILITIES** are available in facs. of arts, law and sci.

**STUDY LEAVE.** All teachers who have completed 3 yrs' continuous service are eligible for

study leave of 2 yrs. on half salary, full salary is admissible if Univ. deputes a teacher for study, full salaries also paid to teachers who obtain Nuffield fellowship or fellowship or scholarship awarded by govt. of Pakistan or by Colombo plan countries.

**Fees.** Tuition arts, Rs. 141 p.a., phys. & chem., Rs. 180 p.a.

**TERMS.** July-Sept., Oct.-Dec., Jan.-May.

**STUDENT RESOURCES** (for Provosts, see 'Admin. and other Staff', above). There are 2 halls of residence, accomm. 500.

**MILITARY FORMATION.** There is a detachment of the O.U.T.C. for the trg. of Univ. students.

**STUDENTS' UNION.** There is a students' union with the vice-chancellor as pres.

**HEALTH SERVICE.** There is a Univ. med. officer, and students are allowed free advice and med. from the Univ. dispensary.

**RECREATION.** All degree colls. have facilities for organized games.

**PUBLICATIONS.** *Calendar*, 2 vols. (biannual, price Rs. 6, publ. by Oxford Univ. Press); *Rajshahi University Studies* (annual).

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: 13 hostel blocks, 1 hall of residence, 1 sci. bldg. (accomm. phys., chem. and stats. depts.), 3 bldgs. for residential accomm. of teachers.

**RETIREMENTS.** A. A. Khan (law).

**RESIGNATIONS.** M. R. Rahim (Islamic hist. & culture).

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	17,004	—
Women	845	—
Total	17,849	—

**Distribution by Faculties.** Arts, 13,040; *educn.*, 130, *law*, 134; *med.*, 161; *sci.*, 4364. Total: 17,849.

*Included in the figures above are —*

Intermediate students, 12,867.

Postgraduate students, 685.

New admissions, 9533.

Students from other countries (Univ. teaching depts. only), 24 (all from India).

**DEGREES AWARDED (1960-61).** Arts, BA, 728; BA (hons), 119; MA, 120. *Comm.* BCom, 123; MCom, 27. *Educn.* BEd, 131. *Law.* LL.B., 17. *Sci.* BSc, 130, BSc (hons), 38, MSc, 35. Total number of first degrees awarded, 1138.



# UNIVERSITY OF SIND\*

Founded 1947

Postal Address: Hyderabad, West Pakistan

Cables and Telegrams: University, Hyderabad, West Pakistan

Telephone (Registrar) 2084, 2591, 2181

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)

VICE-CHANCELLOR—M. RAZIUDDIN SIDDIQI, MA Camb., PhD *Leip.*, DSc *Oxon.*

REGISTRAR—M. HUSAIN, MA

PROJECT DIRECTOR, SIND UNIVERSITY CONSTRUCTIONS—M S LAHRI

CONTROLLER OF EXAMINATIONS—D M. NABHO, MA LLB

LIBRARIAN—M. A. KAZI, MA

## TEACHING STAFF

### Arabic

Jalham, G. N., MA Reader, Hd. of Dept.  
Qureshi, Miss A. K., MA PhD *Bomb.* Sr. Lectr.  
Qadri, M. A., MA Lectr.  
2 Tutors

### Botany

Islam, A. S., MSc PhD *Manc.*  
(on leave) Prof., Hd. of Dept.  
Choudhry, I. I., MSc *Alig.*, PhD *Tübingen*

Mustafa Khan, K., PhD Reader  
Matinuddin Khan, MSc *Alig.* (on leave) Sr. Lectr.  
Hyder, S. Z., MSc Lectr.  
Kader, Z. bin-A., MSc Actg. Lectr.  
3 Demrs

### Chemistry

Kazi, M. A., MSc LLB PhD *Lond.*  
Prof., Hd. of Dept.  
Naqvi, S. N. A., MSc *Alig.*, PhD Reader  
Azam, I., MSc *Kovach* Lectr.  
Mallik, A. A., MSc *Paw.* (on leave) Lectr.  
Yousuf Khan, M., MSc (Org. C) Lectr.  
Akhtar, M. I., MSc Lectr.  
Salam Khan, M. A., MSc Lectr.

### Comparative Religion and Islamic Culture

Halepon, A. J., MA *Bomb.*, DPhil *Oxon.*  
Prof., Hd. of Dept.  
Khaliq Kazi, A., Moulvi Fazil *Paw.*, BA  
PhD *Lond.* Reader  
Khosa, A. A. N., MA Lectr.  
Shah, P. A., MA Lectr.

### Economics

Khan, N. A. G., MA BT PhD *Bomb.*  
Prof., Hd. of Dept.  
Aheo, M. E., MSc (Econ) *Lond.*, MA Sr. Reader  
Yousafzai, A. K., MA *Alig.* Lectr.  
Beg, M. A. A., MA *Alig.* (on leave) Lectr.  
Shah, N. A., MA (on leave) Lectr.  
2 Tutors

### Education

Baloch, N. A., LLB *Alig.*, EdD *Col.*,  
MA *Alig.* & *Col.* Prof., Hd. of Dept.  
Shams, P. A., MA (Ed) *Col.*, BT Reader  
Memon, S. M., MA BT MEd Reader  
Siddiqui, M., MEd BT Lectr.  
Khan, A., MA BT Lectr.  
Arum, A. A. U., MA Lectr.  
Shah, R. A., MA *Bomb.* Lectr.  
1 Demr

### English

Wasti, S. M. J., MA Camb. & *Sand*  
Reader, Hd. of Dept.  
Ahmed, I., MA LLB Reader  
Ahmed Khan, J., MA *Alig.* Reader  
Khamisani, Mrs. Amna, MA Lectr.  
Qureshi, G., MA Lectr.  
Lal, A., MA Lectr.  
1 Tutor

### Geography

Memon, M. M., MSc BT *Alig.*  
Reader, Hd. of Dept.

\* Member of the Association of Universities of the British Commonwealth

Rehman, Dr. M. Sr Lectr  
Ahmed, K. S., BSc Alg, MA Karachi (on leave) Lectr.

**Geology**

Ahmed, M. R., MSc Lectr -in-Charge  
2 Demrs.

**History, General**

Bashir, A., MA Pany., PhD Lond Prof., Hd of Dept  
Muhammad Khan, Y., MA PhD Lond Reader  
Alam, A., MA Lectr  
2 Tutors

**History, Muslim**

Fathan, M. H., MA LLB PhD Lectr., Hd of Dept  
Hnahn, Y. A., MA PhD Reader  
Nadvi, S. S., MA Lectr  
2 Tutors

**Islamic Culture, see Comparative Religion****Mathematics and Statistics**

Abbasi, S., MA Reader, Hd. of Dept.  
Mohammad, M. N., DIC, MSc Lond, Sr. Lectr  
MA Lectr  
Soori, S., MSc Karachi Lectr  
Hussain, S. G., MA Lectr  
5 Tutors

**Persian**

Qazi, P. N. B., PhD Gdr, MA MED Reader, Hd. of Dept.  
Saleem, H. A., Munshi Fasil Lectr.  
Adib Fasil Pany., MA Lectr.  
Hussain, A. S., BA Lond Lectr.  
1 Tutor

**Philosophy**

Farooqui, W. A., MA Lectr.-in-Charge  
Ahmed, T., MA Lectr  
Akbar Ali, R., MA BT Lectr.

**Physics**

Ghouri, Q. K., MSc PhD Br.Col Reader, Hd of Dept  
Ismail, A. Z. M., MA MSc Pany., Sr Lectr  
BA Comb.

Farooqui, A. Z., MSc Alg (on leave) Lectr  
Alam, A., MSc Lectr  
Nahi, S. I., MSc Actg Lectr.  
Choudhary, N. A., MSc Actg. Lectr.  
1 Demr

**Political Science**

Haq Khan, N., MA PhD Reader, Hd of Dept  
Hussan Khan, M. H., MA LLB Lectr  
Umar, M., MA Lectr  
Waris, I. B., MA Lectr  
Ali, R., MA Lectr  
1 Tutor, 1 Res Fellow

**Psychology**

Hasan, Mrs. Rafia, MA MEd Hare (on leave) Sr Lectr -in-Charge  
Ahmed, A., MA (on leave) Lectr.  
Ahmad, S., MA Lectr  
Mahmood, M., BA Lond., MA BT Lectr.  
Latif, W., MA Lectr  
1 Tutor

**Sindhi**

Jetto, A. H., MA BT Reader, Hd of Dept  
Alina, G. A., MA (on leave) Lectr.  
2 Tutors

**Urdu**

Mustafa Khan, G., MA LLB Alg., PhD DLitt Nag. Prof., Hd of Dept  
Khan, Mrs. A. N., MA BT PhD St. Lectr  
Rashidullah, K., MA Lectr  
Hosham, S. A., MA Lectr.

**Zoology**

Mohammad, A., PhD Lond., MSc Prof., Hd of Dept  
Akbar, S. S., MSc PhD Alg Reader  
Ali, S., MSc Lectr  
Ahmed, S., MSc Lectr  
Hussain, S. I., MSc Pany., MA Karachi Lectr.  
2 Demrs

**CENTRAL SUPERIOR SERVICES CLASSES**

Sufi, A. A., MA LLB Reader, Hd. of Dept.

**ADMINISTRATIVE AND OTHER STAFF**

Asst Registrar: A. K. Memon Du. of Phys  
Edson - M. Aslam Mia, MA MEd. Treasurer  
R. M. Bhutto Establishment Officer. A. R  
Jami, MA. Asst. Controller of Exams. M. M

Nizamani, MA Univ Med Officers: (at Old  
Campus, Hyderabad) M. I. Shakh, MB BS  
Vienna, (at New Campus, Jamshoro) Ham-  
duddin, MB BS

**AFFILIATED COLLEGES**

[BA, ISc, etc., after the name of a coll. means that courses are provided there for  
BA, Intermediate Science, etc.]

Dadu, Govt College. BA (pass), ISc Prin-  
cipal—L. A. D. D'Souza, MSc, 18 Teachers.

Dadu, Low College. LLB. Principal—A.  
Najmuddin, BA LLB. 5 Teachers.

HYDERABAD, *City College*, Station Rd BA (pass) Principal—M Inasullah, MA 17 Teachers

HYDERABAD, *Gout College*. BA, BSc (pass) Principal—A Saeed Khan, MA. 32 Teachers

HYDERABAD, *Gout College for Girls*. BA, BSc (pass). Principal—Mrs Shams Abbasi, MA BT 13 Teachers

HYDERABAD, *Leggott Medical College*. MB BS. Principal—Col. Ziauddin Ahmad 48 Teachers

HYDERABAD, *Sachal Sarawati College*. BA (pass), ICom, ISc. Principal—S T A. Naqvi. 25 Teachers

HYDERABAD, *Sind College of Commerce*. BCom. Principal—S. Q. Ahmed, MCom. 10 Teachers

HYDERABAD, *Sind Law College*, Risala Rd LLB Principal—A. Jaleel, BSc LLB 8 Teachers

KHARUPA, *Misra Gout College*. BA (pass), BSc, ICom Principal—S. H. H. Jafri, MA PhD 41 Teachers

LARKANA, *Gout College*. BA, BSc (pass) Principal—M. Ali Khan, BMSS *Int. for Soc. Studies* (The Hague), MA LLB. 23 Teachers

MIRPURKHUR, *Law College*. LLB Principal—M. L. Gandhi, BA LLB. 8 Teachers

MIRPURKHUR, *Shah Abdul Latif Gout College*. BA, ISc. Principal—R F M Majid, BA. 27 Teachers

NAWABSHAH, *Gout College*. BA, ISc. Principal—M A Ansari, BA 21 Teachers

NAWABSHAH, *Law College*. LLB. Principal—M Yaqoob Qureshi, BA LLB 9 Teachers

SHIKARPUR, *C and S Gout College*. BA, ISc. Principal—S W Qadri, MSc 28 Teachers

SUKKUR, *Jhama College*. BA, BCom, ISc Principal—M. Ahmed, MA 23 Teachers

SUKKUR, *Law College*. LLB Principal—M. Ali Shah, MA LLB 6 Teachers

TANDO JAM, *Gout Agriculture College*. MSc (Agril) Principal—A M Shaikh, DIC, MSc PhD. 35 Teachers

## GENERAL INFORMATION

Although the idea of a separate univ. for Sind was first broached in 1886, it was not until 1940 that the autonomous govt. of Sind apptd. a cttee. to go into the entire problem. The report of the Sind Univ. cttee., issued in 1941, covered the entire field of organizational and academic issues involved, but action was delayed until a regular bill for the creation of a separate univ. for Sind was introduced in the Sind legislature in 1945, and became an act in 1947.

Since a separate Karachi Univ. for the Karachi federal area was establd., as from session 1951-52, the headquarters of the Univ. of Sind were moved from Karachi to Hyderabad in May 1951.

The univ. is affiliating, examining and teaching. Undergrad. teaching is provided by the affiliated colls. and facilities for postgrad. study (incl. BA (hons.) and BSc (hons.) courses) and res. by the univ. itself.

FACULTIES AND DEANS. *Arts* (incl. comm. and teaching), Prof. N. A. Baloch (educn.); *Islamic and other religious studies*, A. S. A. Akbar Shah; *law*, A. K. Ibrahim, *med.*, Dr. M. R. Siddiqi, *sci.*, Prof. A. L. Shaikh; *technical* (incl. agric. and engin.), Principal A. M. Shaikh

UNIVERSITY PREMISES. A univ. township scheme has been approved in principle by the provincial and central govt., and architectural work has already begun. The scheme envisages the estab. of the following means. under direct univ. control: educn. dept. with model primary sch. and model collegiate sec. sch.; arts colls.; comm. colls.; law coll.; sci. coll.; engin. coll.; technical inst.; and med. coll. with attached hosp.

LIBRARY. 37,070 vols

ADMISSION to courses in university teaching departments. TD: candidates must be undergrads. of Sind or a recog. univ. and must have taught for at least 1 yr. BT: candidates must be grads. of Sind or a recog. univ. and must have taught for at least 1 yr. MED: candidates must have had 1 yr.'s teaching experience after passing BT (1st or 2nd class), MA, MSc or LLB (with BA degree) in the 1st class or 2nd class. DEd: candidates possessing MED of Sind or a recog. univ. may register. DPhil: candidates possessing MA or MSc of Sind or a recog. univ., or an equivalent exam. of a recog. univ., will be allowed to register provisionally. MA, MSc: normally, candidates can take these master's degrees only in subjects which they have already studied for BA or BSc.

Exams. of all statutory univs. in India and Pakistan are recog. for the purpose of admission.

FIRST DEGREE. 3 yrs. after inter.—BA pass & hons., BSc pass & hons. (after inter. sci.), BCom (after inter. comm.); 5 yrs. after inter. sci.—MB BS; 5 yrs. after matric.—BSc(Agric.); also BE (civil, mech. & electr.).

HIGHER DEGREE. 1 yr.—BT; 2 yrs.—LLB, MA, MSc, MSc(Agric.), MEd (after MA, MSc or BT), LL.M. (after LLB). Also DEd, 1 yr. after MEd; DPhil, not less than 2 and not more than 5 yrs. after MA or MSc.

DIPLOMA. 10 wks.—TD (teacher's dipl.).

ACADEMIC YEAR. 3 terms. Aug 16-Sept 30; Oct. 10-Dec. 31; Jan 21-May 15.

FEE. Tuition fee. Rs 150 p.a. or Rs 15 p.m. for BA (hons.), BSc (hons.), BT, MA, MSc;

Rs. 150 p.a. or Rs. 15 p.m. for MED; Rs. 50 for TD (a term). Supervision fee. Rs. 120 p.a. for DED, DPhil, BPhil.

A FOREIGN UNIVERSITIES' BUREAU OF INFORMATION has been set up to guide all students in West Pakistan who desire to study in the univs. of U.K. and U.S.A.

RECREATION The univ. bd. of sports organizes the univ.'s sports activities. Individual colls. also provide facilities for indoor and outdoor games.

PUBLICATIONS *Calendar*, Rs. 38, *Annual Reports*, *Journal of Education*, Rs. 7, *Research Journal*, *Univ. Gazette*, fortnightly, Rs. 2.

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

University	
Teaching Depts *	Affiliated Colls.
Men	800
Women	111
Total	911

Distribution. Univ. Teaching Depts. arts, 475; religious studies, 19; sci., 346, teacher's dipl. course, 71. Total. 911.

Affiliated colls. agric., 365, arts, 6283, law, 484; med., 166, oriental, 596, sci., 1769  
Total 9663

Included in the figures above are:—

Students from other countries, 3

DEGREES AWARDED (1960-61) BA pass & honours, 259; BCom, 14; BT, 17; MA, 38; BSc pass & honours, 48, MSc, 15; MB BS, 47; LLB, 44; MEd, 1

\* All students are full-time

# WEST PAKISTAN AGRICULTURAL UNIVERSITY

Established 1961; previously established as Agricultural College and Research Institute, 1909

Postal Address: Lyallpur, West Pakistan  
Cables & Telegrams: Agriuniversity, Lyallpur  
Telephone 3126

CHANCELLOR—A. M. KHAN, Governor of West Pakistan (*ex officio*)

VICE-CHANCELLOR—Z. A. HASHMI, MSc DVM *Mech State*

DEAN—S. P. SWANSON, PhD *Min*

REGISTRAR—A. LATIF, MSc MA *Tol*

DEPUTY TREASURER—M. ARSHAD, MScAgr *Pan*

CONTROLLER OF EXAMINATIONS—A. LATIF, MSc *Pan* & *Wash State*

## TEACHING STAFF

Agricultural Economics and Sociology		Nas, M. A., MScAgr <i>Pan</i>		Lectr
Qureshi, B. A., MA <i>Pan</i> ,		Shah, S. D., MScAgr <i>Pan</i> , MS <i>Arizona</i>		Lectr
MScAgrEcon <i>Wur</i>	Reader	Khan, M. A., MScAgr <i>Pan</i> , MS <i>Iowa</i>		Lectr
Sedding, M., MScAgr <i>Pan</i> , MS <i>Ohio</i>	Lectr.	Mir, A. R., MScAgr <i>Pan</i> , MS <i>Min</i>		Lectr
Chaudhry, H. A., PhD <i>Minnesota</i>	Lectr.			
Animal Husbandry		Entomology		
Shaw, A. O., PhD <i>Penn State</i>	Prof	Kausar, A. G., BScAgr <i>Pan</i> , PhD <i>Min</i>		Reader
Durrant, M. Z., MSc PhD <i>Corn</i>	Reader	Asghar, M. A., MScAgr <i>Pan</i>		Lectr.
Said, M. B., MSc PhD <i>Wash State</i>	Reader	Khan, M. Z., MScAgr <i>Pan</i> , PhD <i>Wales</i>		Lectr.
Qureshi, J., MSc <i>New Mexico</i>	Lectr	Haq, M., MScAgr <i>Pan</i> .		Lectr
Basic Sciences		Food Technology		
Gebhart, J., PhD <i>Ohio</i>	Prof	Tremazi, S. A., MScAgr PhD <i>Pan</i> , MS <i>Texas</i>		Lectr
Burr, S. D., BSc <i>Pan</i> , MSc <i>Alg</i> .	Lectr	Bhatia, M. B., MScAgr <i>Pan</i> .		Lectr
Khan, A. A., BScAgr <i>Pan</i> ,		Rehman, R., BScAgr <i>Alg</i> ,		
DipAgrZool <i>Lectr</i> , MA PhD <i>Lahor</i>	Lectr.	MS <i>Wash State</i>		Lectr
Ali, S., MSc <i>Pan</i>	Lectr	Chaudhry, M. R., BScAgr <i>Pan</i> ,		
Baeed, A., MScAgr <i>Pan</i>	Lectr	MS <i>Calif</i>		Lectr
Siddiq, A., MSc <i>Alg</i>	Lectr.			
Hafiz, A., MA <i>Pan</i>	Lectr.			
Anwar, M. M., BScEngg <i>Pan</i>	Lectr.			
Rafi, M., BScAgr <i>Pan</i> , MSc <i>Durh</i> .	Lectr.			
Crop Production		Horticulture		
Khan, A. H., MScAgr <i>Pan</i> ,		Ali, N., MScAgr <i>Pan</i>		Lectr.
MS <i>New Mexico</i>	Reader	Khan, M. A., MScAgr <i>Pan</i> .		Lectr.
Faqir, M. I., MScAgr <i>Pan</i> .	Lectr.	Chaudhry, M. Y., MScAgr <i>Pan</i> ,		
Gill, M. A., MScAgr <i>Pan</i> .	Lectr.	MS <i>Arizona</i>		Lectr.
Khan, R. A., MScAgr <i>Pan</i> , MS <i>Colorado</i>	Lectr	Shah, M., MScAgr <i>Pan</i> .		Lectr
		Ullah, H., MScAgr <i>Pan</i>		Lectr.
Cytogenetics and Crop Improvement		Plant Pathology		
Khan, A. H., MScAgr <i>Pan</i> ,		Kausar, A. G., BScAgr <i>Pan</i> , PhD <i>Min</i> .		Reader
MS <i>New Mexico</i>	Reader	Ashraf, M., MScAgr <i>Pan</i> .		Lectr
		Hameed, A., MScAgr <i>Pan</i>		Lectr
		Khan, I. U., MScAgr <i>Pan</i>		Lectr

**Social Sciences and Humanities**

Edlefoen, J. B. L., PhD Wash State	Prof
Tamwi, G. R., MA Pay	Lectr
Khan, A. A., BScAgri Pay	Lectr
DipAgriZool Lead, MA PhD Lublin	Lectr
Malik, A. H., MA BEd Pay	Lectr

Hoshina, A. K., MSc Pay	Lectr
Muhammad, S., BScAgri Pay	Lectr
MS Wash State	

Lectr

**Soil Sciences**

Larson, C. A., PhD Wash State	Prof
Haq, I., MScAgri Pay, MS Wash State	Reader
Butt, S. D., BSc Pay, MSc Agri	Lectr
MS Wash State	

**Teacher Training and Extension**

Ahmad, G. D., BScAgri Pay, BSc Lond	Reader
MSc Calif	
Ullah, H., MScAgri Pay	Lectr
Chaudhry, H. A., PhD Missouri	Lectr
Khan, G. S., MScAgri Pay	Lectr
Hussain, H.	Lectr

**ADMINISTRATIVE AND OTHER STAFF**

Information Officer: G. M. Gilani, BA Pay, MA Agri Auditor: M. Khan Med. Officer: M. S. Chaudhry, MB BS Pay. Lady Med. Officer: Miss Tahira Rashore, MB BS Pay.

Hostel Warden: A. U. Siddiqui, MSc Agri Hostels Supts: S. D. Butt, BSc Pay, MSc Agri, A. Asghar, MSc Agri Pay, S. Ali, MSc Pay, H. Hussain Auditor: M. Khan

**GENERAL INFORMATION**

The W Pakistan Agric. Univ was establd. with effect from Nov 1, 1961, on the basis of the Punjab Agric Coll and Res Inst (establd 1909), with quadruplicate functions of teaching, res., extension and teacher trg. The univ. scheme is included in second 5-yr plan, and is estimated to cost Rs. 436 lacs.

The univ. is envisaged as providing instruction in agric sci., basic sci. and humanities, and soil sci., etc., and as developing facs. of agric., animal hush., vet. sci., agric. engin. & technol., and agric. econ. & rural sociol. A div. of basic sci. and arts, and inst. of teachers' trg. and extension are also to be establd.

**CONSTITUTION.** The syndicate consists of 2 deans of facs., 7 eminent educationists (nominated by the chancellor), the sec. of educn and the vice-chancellor. The gen. management and superintendence of the affairs, concerns, funds and property of the univ are vested in the syndicate. The academic council, which consists of the vice-chancellor, deans of facs., hds. of teaching depts., profs. and readers of the univ., and 5 profs. nominated by the chancellor, is responsible for organizing courses of studies,

prescribing syllabuses, conducting exams, etc., subj. to the approval of the syndicate.

**INCOME (1961-62)** Govt grant (devel.), Rs. 47 lacs, (non-devel.) Rs. 38 lacs.

**FACULTIES AND DEANS:** Agri., Dr. S. P. Swenson; animal hush., Dr. Z. A. Hashmi.

**LIBRARY:** Approx. 20,000 vols., primarily postgrad. and res.

**FIRST DEGREES:** BScAgri, 3 yrs from matric.

**HIGHER DEGREES:** MScAgri, 2 yrs after BScAgri, PhD (in sci.), 2 yrs after MSc.

**RESEARCH facilities available in agric. sci.**

**FEES:** Registration, Rs. 14. Tuition: FEA, Rs. 6 per month; BScAgri, Rs. 12 per month; MScAgri, Rs. 15 per month; PhD, Rs. 20 per month.

**STUDENT RESIDENCES:** 5 hostels, accomm. 450 students.

**STUDENT HEALTH SERVICE:** For univ. med. officers, see 'Admin. and Other Staff', above. Students allowed free advice and med. from univ. dispensary.

**RECREATION:** Facilities exist for organized games.

**THE YEAR 1961****Statistics****STUDENT NUMBERS, 1961-62**

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	853	—
Women	1	—
Total	854	—

Distribution by Faculties: Agri., 854; animal husbandry, nil. Total: 854.

Included in the figures above are —

Postgraduate students, 93.

New admissions, 263.

Students from other countries, 23. (Countries from which largest numbers came: British E. Africa, 8, Nepal, 5).

DEGREES AWARDED (1961-62). BScAgri, 105.

# WEST PAKISTAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Founded 1961

Postal Address : G T Road, Lahore 15, West Pakistan

Cables and Telegrams : Unwengtech Lahore

Telephone : Lahore 68240

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN

VICE-CHANCELLOR—A. RASHID KAZI

REGISTRAR—I HAQ, MSc Pay & N Y.

DIRECTOR OF RESEARCH, EXTENSION AND ADVISORY SERVICES—M A HAQUN, MIEE, FIP

TREASURER—M I. QURESHI, BCom Pay.

## TEACHING STAFF

### Chemistry

Shah, A, MSc Pay  
Bhatti, S. A., BSc MScTech Pay.

Lectr.

Temp. Lectr.

### Engineering, Chemical

Usmanullah, MSc Pay., MSc(ChemEng)

Prof.

### Engineering, Civil

Naseem, M., MSc(Eng) *Mhu.*  
Khalil, Z. M., MA Pay., BE *Melb*  
Ali, S. A., BE(Civil) MSc(Engg)  
Saeed-ud-Din, MA Pay., BSc(CivilEngg),  
DTC, DPHE *Durk.*  
Ali Khan, W., BSc *Alg.*, MSc *Leod*  
Islam Sheikh, M., BSc Pay.,  
BSc(CivilEngg)  
Ikramullah, M., BSc(CivilEngg)  
Awan, N. M., BE *Katohi*  
Tariq, M. N., BScEngg Pay  
Ali, I., BE *Jab.*, MSc(Tech) *Kharagpur*  
Waseed, A., MSc *Kanara*

Prof

Reader

Reader

Reader

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

### Engineering, Electrical

Hameed Khan, A., BA Pay., BSc(Engg)  
MASe *Tor.*  
Amuddin-Ahmad Kazi, BSc(Engg) MSc  
Qureshi, A. A., BA MSc Pay., MSc(Engg)  
Wahab, A., BSc Pay., MSc *Onabawa*  
Ahmad, M., BSc(Engg) *Alg.*, MSc Pay  
Nawaz, M., BScEngg Pay., MS *Pullman*  
Ahmad, K., BScEngg Pay  
Hussain, M., BScEngg Pay., MS *Pullman*  
Akhtar, M. Y., BScEngg Pay

Prof

Reader

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

### Engineering, Mechanical

Hussain, A., BScEngg Pay., PhD *Leod*  
(on leave) Prof  
Qureshi, A. H., BScEngg Pay., DTC, Offg Prof  
MSc *Leod* Reader  
Mallora, W. A., DipSocStud *Neth.*  
Hussain, M. S., BSc(Engg) *Alg.*,  
MSc *Shagf* Reader  
Masud-ul-Hameed, BScEngg Pay.,  
MScTech *Manc* Reader  
Saleem, M. I., BScEngg Pay., MSc Reader  
Hussain, I., BA BScEngg Pay Lectr  
Akmal, M., BScEngg Pay.,  
MSc *Northwestern* Lectr  
Yahya, R. M., BA BScEngg Pay Lectr.  
Uppal, K. R., BScEngg Pay Lectr.  
Ikram Khan, M., BA BScEngg Pay. Lectr.  
Khan, Mohammad, BScEngg Pay Lectr

### Engineering, Mining

Haq, M. Z., BSc *Patus*, PhD *Leeds* Prof.  
Muza, M. B., BSc Pay & *Leeds* Reader  
Mehtab, M. A., BSc Pay., BSc(Min) Lectr.  
Alvi, J. M., BSc BScEngg Pay.,  
BSc(Min) Lectr.  
Dar, I. H., BSc *Wash.*, MSc Lectr.  
Umer, P. A., BScEngg Pay Lectr.  
Raza Khan, A., DTC, BScEngg Pay Lectr.  
Butt, N. A., BSc Pay. Lectr.

### English

Butt, A. Z., MA Pay. Lectr.

### Mathematics

Hameed, A., MA Pay., PhD *Edin.* Prof.  
Amin, M., MA Pay. Lectr.

# W. PAKISTAN UNIV. OF ENGINEERING & TECHNOLOGY 851

Rashid, S. A., MA Pay.  
 Qureshi, I. A., CertStats Pay  
 Hussain, S. M., MA Pay  
 Elahi, M., MA CertStats Pay.  
 Haq, I., MA Pay  
 Ahmad, N., MA Pay

Lectr Religious Education  
 Ahmad Ali, S. A., MA Alg., DPhil Oam Rander  
 Lectr  
 Town Planning  
 Rahman, S. A., BSc Alg., BSc(Eng) Lond.,  
 Lectr CertTP Univ Coll Lead Prof.  
 Lectr

## ADMINISTRATIVE AND OTHER STAFF

Auditor : I. Muhammad Khan, BA Pay Welfare Officer : M. A. Haq, BSc Mase.

## GENERAL INFORMATION

The univ. was founded in 1961 as a development of the old establd. Coll. of Engin. & Technol., Lahore

**CONSTITUTION** The following are the authorities of the univ. : syndicate, academic council, fees, bds of studies, selection bd., cttee for advanced study & rev., finance cttee, planning & devel. cttee

**INCOME** (estimate for 1962-63). Total Rs 3,280,400 (fee, Rs. 142,000, publicans, Rs. 2000; rent (incl. hostel rent), Rs. 30,000, interest on investment, Rs. 8000, recovery of advances, Rs. 12,000; misc., Rs. 30,000; govt. of W. Pakistan, Rs. 2,800,000, [for mining engin. dept.] central govt., Rs. 250,400)

**FACULTIES** Archt & planning, engin.

**LIBRARY** 15,600 vols

**ADMISSION** Min. qualif. for entry is inter sci. of an approved univ. or bd. of secondary educn., with chem., maths and phys. or equivalent studies (300 places available for 1962-63 : *civilian students*—chem. engin., 20, civil engin., 100, electr. engin., 43, mech. engin., 72, mining engin., 15. *Defence nominees*—civil engin., 10, electr. & mech. engin., 20)

**FIRST DEGREE** 4 yrs.—BSc(Engg)

**HIGHER DEGREES** As soon as teachers are available it is proposed to start the following courses of advanced studies (involving res.) : PhD in statistical analysis of engin. problems, MSc(Engg) in civil engin. (hydraulics, struct. engin., soil mechanics, concrete technol.), MSc(Engg) in electr. engin. (electr. mechanism, high voltage engin., microwave & radar systems, antenna & propagation studies, network analysis technique, computer programmes, industrial

electronics, switchgear & protection). Courses (a yrs.) for MSc(Engg) begin in Oct. 1962

**DIPLOMA** Sanitary engin. (1 yr. postgrad.)

**FEES** Tuition Rs. 20 per month Exam Rs. 75-90

**ACADEMIC YEAR** Oct. 1-June 30.

**EXTENSION LECTURES** (organized by univ. discontinue of res., extension & advisory services) on indust. and academic topics given by internat. visiting profs. and engineers to audiences including engineers and industrialists of Pakistan who are thus able to discuss educn., economic and indust. problems of the country with staff and students.

**STUDENT RESIDENCE** 4 halls, each accommodating about 100 students. Hall wardens, 4 asst. hall wardens (Further halls planned to enable at least 2000 students to live on univ. premises)

**STUDENTS' UNION**, and clubs for tennis, hockey, etc. Caterers

**APPOINTMENTS** A careers officer has been apptd. who will advise graduates of the univ. about appropriate employment

**STUDENT WELFARE** Experienced officer apptd. as welfare officer under whom a duty soc. has been organized to provide to deserving students interest-free loans repayable after graduation

Foreign students are assisted by a sp. officer.

**BUREAU OF FOREIGN STUDIES** helps to obtain admission to advanced studies in foreign universities for grads. of this univ. who want to continue their educn. abroad

**PUBLICATIONS** Prospectus (Pac. of Engin.), annual

## THE YEAR 1961

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	525	—
Women	—	—
Total	525	—

All students in fav. of engin.

Included in the figures above are :—

Postgraduate students, 8.

New admissions, 222

Students from other countries, 8.

**DEGREES AWARDED** (by Univ. of the Punjab) (1960-61). 129 degrees were awarded by the Univ. of the Punjab to students who had originally enrolled in the former Govt. Coll. of Engin. & Technol. which is now succeeded by the W. Pakistan Univ. of Engin. & Technol. The latter univ. will hold its 1st convocation in Jan. 1963.

PAKISTAN





# **RHODESIA AND NYASALAND**

University College of Rhodesia and Nyasaland (p. 854)

**RHODESIA AND NYASALAND**

# UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND\*

Incorporated 1955; previously established as Rhodesian University College, 1953

Postal Address: Private Bag 167H, Salisbury, Southern Rhodesia

Cables and Telegrams: Unicol, Salisbury

Telephone: Salisbury 36635

PRESIDENT—H M QUEEN ELIZABETH THE QUEEN MOTHER

CHAIRMAN OF COUNCIL—The Rt Hon. THE VISCOUNT MALVERN, CH, KCMG, DCL Oxon, LL.D.  
*Land., Rome & Rhodes, FRCS*

PRINCIPAL—W ADAMS, CMG, OBE, BA *Land*, LL.D *Malta & Melb*

VICE-PRINCIPAL—Professor J C MITCHELL, BA(SocSc) *Natal*, BA *S A*, DPhil *Oxon*

REGISTRAR—J D ANGUS, BA *Land & Durh*

LIBRARIAN—D H VABLEY, MA *Oxon*, FLA

ACCOUNTANT—W. BUNNIES

## TEACHING STAFF

### African Languages

Fortune, Rev G., MA PhD *Cape T* Prof

### African Studies

Mitchell, J C., BA(SocSc) *Natal*, BA *S.A.*,  
DPhil *Oxon* Prof.  
Kingsley Garbett, G., BSc *Land* Lectr.  
Sommerfelt, A., MA *Oslo* Lectr.  
van Velsen, J., BSc *Oxon*, PhD *Manc.* Lectr.  
Wheeldon, Prudence D., BA *Cape T.* Asst Lectr.

### Agriculture, see also Bot., Econ

Davis, A. G., BSA *Tor*, MSc *Wales* Prof.  
Oliver, J., BSc(Agric) *Durh.*, PhD *R'dg.* St. Lectr.  
Allison, J. C. S., MSc(Agric) *Pret* Lectr.  
Manson, J. L., MSc(AgricEng) *Durh* Lectr.  
Topps, J. H., BSc PhD *Land.* Lectr.  
Watson, J. P., BA(Agric) MA BSc *Oxon* Lectr.  
Elliott, R. C., BSc *Pret* Res. Fellow  
Mueller, P. W., BSc *R'dg.* Res. Fellow

### Botany

Boughay, A. S., BSc *Lead.*, PhD *Edm.* Prof.  
Loveless, A. R., MA PhD *Cambr*  
(Agric) St. Lectr.  
Douglas, Barbara, BSc PhD *Land* Lectr.  
Noel, A. R. A., BSc *Land* Lectr.  
Ellenberger, Eleanor C E., BSc *Lead*  
Res. Fellow  
Mitchell, D. S., BSc *Cape T.* Res. Fellow  
Strong, R. M., BSc(Por) *Edm* Res. Fellow  
2 Jrs Res Fellows

### Chemistry

Harper, S. H., DIC, PhD DSc *Land*,  
FRIC Prof.  
Eve, A. J., MSc *Rhodes* Lectr.  
Eve, D. J., PhD *Rhodes* Lectr.  
Kemp, A. D., MSc *Rand*, DPhil *Oxon* Lectr.  
Sweet, E. R., BSc(Eng) *Rand*, DSc *Pret* Lectr.  
Letcher, R. M., BSc UED *Natal* Asst Lectr.  
Whitehead, D. L., MSc(Agric) *Natal*,  
DPhil *Oxon* Res. Fellow  
1 Jr. Res. Fellow

### Classics

... Prof.  
Forder, M. Philippa, MA *Comb*,  
MA *Cape T* Lectr.  
Whistaker, C. R., BA *Comb* Lectr.  
Atkinson, J. E., BA *Durh* Asst Lectr.

### Economics

Taylor, W. L., MAN Z, MSc(Econ) *Land* Prof.  
Cole, R., BA *Oxon* Lectr.  
Johnson, R. W. M., MAgrSc N.Z.  
(Agric.) Lectr.  
Ngobho, S. B., BA *S.A.*, BEcon *Natal*,  
MA *Yale* Lectr.  
Palley, Claire, BA LLB *Cape T* (Law) Lectr.  
Scott, J. G., MA *St And.* Lectr.  
Ward, M. P., BA *Evo* Asst Lectr.

### Education

Roussenu, H. J., MA BEd D Litt *Cape T*,  
DEd *S.A.* Prof.

\* Associate Member of the Association of Universities of the British Commonwealth

# UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND 855

Rogers, C A, PhD Lond., BEd Melb., MA  
DipEd NZ  
Gilbert, P G, S, BSc Birm  
Hawridge, D G, MA BEd Cape T  
Irvine, S H., MA BEd Aberd

Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.

## Modern Languages

Rasmussen, B H, BA Lond. Prof.  
Parker, J M, MA PhD Camb. Lectr.  
Wake, C H., MA Cape T., DUParir Lectr.  
Walshere, A D, BA Lond Lectr

## English

MacKenzie, N H, MA Rhodes,  
PhD Lond Prof.  
Mason, M A, MA Lond Lectr.  
Ravenscroft, A, MA Camb & Cape T. Lectr.  
Reed, J O, BA Oxon Lectr.  
Graham, D S., BA Leeds Asst Lectr

## Geology

Bond, G, DIC, PhD Lond, FGS Prof  
Gifford, A C, DIC, PhD Lond Asst Lectr

## Government

Willson, F. M. G, BA(Admin) Manc.,  
MA DPhil Oxon Prof

## History

Stokes, E. T., MA PhD Camb. Prof  
Brown, R., MA Camb Lectr.  
Henderson, I, MA Edin Lectr.  
Ranger, T. O., BA DPhil Oxon Lectr.  
Jenkins, A. N. M, BA Rhodes & Camb Asst Lectr.  
Newitt, M D D., BA Oxon Asst. Lectr.

## Mathematics

Manwell, A. R, BSc Lond. Prof.  
Butler, Rev. W. J, MSc Lond Lectr.  
Tennant, W., BSc Lond., MA Camb. Lectr.

## Physics

Yates, E L, MSc Wales, PhD Wales &  
Camb, FIP Prof  
Gough, D I, MSc S A, PhD Lond Sr Lectr  
Brook, A, PhD Camb, FRMetS Lectr  
McElhinney, M W, BSc PhD Rhodes Lectr  
Jones, D L, BSc Lond Asst Lectr.  
Opdyke, N D, BSc Cal., PhD Durb Res. Fellow

## Zoology

Edney, E B, BSc S.A., DIC, PhD Lond.,  
DSc Birm. Prof  
Rankin, Jessie J., BSc PhD Edin Sr. Lectr.  
Burwell, E, MSc Natal, PhD Camb Lectr.  
Weir, J. S., BSc PhD Glas. Lectr.  
Goldsmid, J. M, MSc Rhodes Asst. Lectr.  
Caldwell, C. C Se Res Fellow  
Harrison, A D, PhD Cape T. Sr Res. Fellow  
Cottrell, C B, BSc Rhodes, PhD Camb.  
Jooste, Kate F., BSc St. And, PhD Lond. Res. Fellow  
Williams, N V, BSc Wales Res. Fellow  
3 Jr Res Fellows

## INSTITUTE OF EDUCATION

Milton, A, MA Camb. Prof., Dir. of Inst

## INSTITUTE OF ADULT EDUCATION

Townsend-Coles, E K, BA Durb. Lectr

## ADMINISTRATIVE AND OTHER STAFF

Estates Manager: D Garden. Asst Registrar.  
P Butterfield, MA Camb. Asst Accountants  
C B C Chitani, J. Hornby, BCom Priv Dep  
Librarian: J Hutton, BA LLB DipLib Cape T  
Asst. Librarians Mrs. Jess F Albert, BA  
DipLib Cape T; Mrs. Elspeth A. Daniels, BA  
Rhodes; Eunice Herbst, BA Natal, DipLib Cape  
T.; Gillian Nicholson, BA Cape T., M Quann,

LLB Lond, Margaret Vowles, BA Natal,  
DipLib Cape T., PSALA, Farm Manager;

Wardens Cart-Sanders Hall. T O  
Ranger, BA DPhil Oxon, Manfred Hodson  
Hall: Prof. B H Rasmussen, BA Lond,  
Swinton Hall (women) Barbara Douglas, BSc  
PhD Lond

## GENERAL INFORMATION

The coll., originally incorporated under the  
Southern Rhodesia 'University Charter and  
Inaugural Board (Private) Act, 1952', and known as  
the Rhodesia Univ. Coll., was established by royal  
charter in Feb. 1955. The charter establishes a  
council, and an academic bd which is in control of  
academic policy. The coll. is a multi-racial  
institution, open to all students without distinction  
on racial grounds. It is intended primarily to  
serve the higher educnl. needs of the Federation of

Rhodesia and Nyasaland but admits students from  
other territories.

Towards the capital costs of bldg and equip-  
ment H.M. govt. has given grants totalling  
£2,875,000. Private benefactors include a gift  
from the British S. Africa Co., Rhodesian Anglo-  
American Ltd., and Rhodesian Selection Trust  
Ltd., of £200,000 for the bldg. of the library and  
a gift of £36,000 from the Beit trustees for the  
construction of the Alfred Beit hall. The federal

## RHODESIA AND NYASALAND

govt. makes a quinquennial grant towards recurrent expenditure.

The coll. has been admitted to special relation with the Univ. of London § Teaching began in 1957.

**FACULTIES AND DEPARTS.** *Arts*, ... *educn.*, Prof. A. Malton (*inst. of educn.*), *res* (incl. agric), Prof. S. H. Hasper (*chem*), *sci. studies*.

**COLLEGE SITES.** The main site of 474 acres at Mount Pleasant, presented by the city authorities, adjoins and overlooks the northern residential area of Salisbury. It is being devel. in 3 sectors radiating from the high terrace which is in the centre of the north boundary. Eastern sector: students' halls of residence, and chapel; central sector: library, assembly hall, students' union and playing fields; western sector: cycling Coll. Green, arts bldg., agric., phys., chem., zoo and bot. labs. Part of the coll. site is reserved for a med. sch., and the federal govt. has given the coll. 1200 acres in the Mazoe valley for use as a teaching and exper. farm.

**LIBRARY.** 60,000 vols. and 1250 current periodicals, incl. a considerable collection of Central African material.

**ADMISSION.** Candidates for admission to a first degree course must satisfy min. and direct entry requirements which are equivalent, with minor modifications, to those of the Univ. of London (see Appendix III), they must also pass a coll. test of proficiency in English.

**FIRST DEGREE** (special relation with Univ. of London). § Courses are provided for the following degrees of the Univ. of London. 3 yrs.—BA gen., BA hon. (Engl. and hist.), BSc(Econ.), BSc gen., BSc(Agric.).

From 1963 courses will be provided for MB ChB (6 yrs.) of Univ. of Birmingham (see also p. 923). Candidates must satisfy the requirements of the Northern Univs. Joint Matric. Bd. (see Appendix III), with certain modifications, and course requirements, and must pass the coll. test of proficiency in Engl.

**DIPLOMA.** Coll. dipl. in appl. econ., 3 yrs. pt.-time.

**CERTIFICATE** (special relation with Univ. of London). § Postgrad. cert. in educn., 1 yr., open to grads of any approved univ.

**RESEARCH.** The coll. is placing emphasis on the provision of res. facilities for members of its staff, for guest res. workers and for postgrad. students. Res. programmes are being devel. in the various depts. of the coll. The region is exceptionally rich in opportunities for res. in hist. and archaeol.;

in the pure and appl. scis.; and in the soc. scis., incl. educn. Students wishing to undertake res. at the coll. should write in the first place to the registrar, giving details of their academic qualifs., res. interests and experience.

**STUDY LEAVE.** Financial assistance is given to staff every 3 yrs. to assist them to visit other academic centres in Africa or overseas, and every 6 yrs. addnl. study leave is granted.

**ENTRANCE AWARDS** (\*=open only to candidates resident in the Fed. of R. & N.). Open entrance awards incl. 3 Fairbridge scholops. of £300 p.a. awarded annually to boys educated in the U.K. Others are the Bata, £200, Bockel\*, £200, Haddon, £100, Horace Hickling, £200, Milward\*, £300; Nyasaland Agric. Prod. & Mktg. Bd\*, £250, Debora Turner\*, £100, Three Fountains\*, £150. Govt. scholops. and grants are also available.

**POSTGRADUATE AWARDS** (\*\*=open to grads of any approved univ.). Level res. fellowship\*\*, £650 p.a.; Milne Munro fellowship\*\*, £500 p.a.; Cooper scholop\*\*, £200 p.a.; and certain of those given above. The federal govt. offers scholops. under the Commonwealth Scholop and Fellowship Plan (see p. 1617), and has established up to 12 awards a year, of £270 p.a. plus travelling expenses, to enable grads. of U.K. univs. to take the educn. course at the coll. on condition that they teach in the federation for 3 yrs.

**Fees.** Tuition fees: BA gen., BA hon., BSc(Econ.), £50 p.a.; BSc gen. and BSc(Agric.), £60 p.a.; postgrad. cert. in educn., £50 p.a.; other postgrad. students, £25 p.a. (full-time), (pt.-time, £10 p.a.); dipl. in appl. econ., £30 p.a. (pt.-time).

Univ. of London matric. and exam. fees: matric. and exam. registration fee, £1. 3s., exam. fee, BA gen.—£18, BA hon.—£20, BSc(Econ.) (pt. I)—£8, (pt. II)—£12, BSc gen. (pt. I)—£8, (pt. II)—£12, BSc(Agric.) (pt. I)—£8, (pt. II)—£4, (pt. III)—£9. Postgrad. cert. in educn.—£12. Dipl. in appl. econ.—£3. 3s. (pt. I), £3. 3s. (final). Students' union, £2 2s. p.a.

**ACADEMIC YEAR.** March to Dec.: three terms 1963: March 18–May 25, June 24–Aug. 31; Sept. 30–Dec. 7.

**RESIDENCE.** The coll. is mainly residential. Halls of residence have been built on the coll. site which, in addn. to common rooms, dining-hall, etc., provide each student with a separate furnished study-bedroom (For wardens, see 'Admin. and Other Staff', above). Fees for residence and bd. £115 10s. per yr. of 3 terms.

**PUBLICATIONS.** *Prospectus* (free on appln. to registrar).

## THE YEAR 1961

**PRINCIPAL BENEFICIARIES.** Rockefeller Foundation, £125,000 for res. in agric. and bot.; Nuffield

Foundation, £34,100 for establt. of freshwater biol. sta. on Lake Kariba; Theol. Educn. Fund

§ For a note on these 'special relationship' arrangements, see p. 1074.

# UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND 857

of churches of Central Africa, \$14,800 towards the establishment of dept. of theol

(Total value of all benefactions received £178,883)

MAJOR BUILDING DEVELOPMENTS. Bldgs. approaching completion extns. to dept of zool and arts fac bldg

RESIGNATIONS H Fairhurst (dep. librarian), apptd librarian, York (England); D G Hoskin (hist.), Dr W. L. Jenkins (chem.), apptd as lects., Makerere, Dr. D. F. Mettlick (zool), apptd lects., Univ Coll, W. Indies, Dr Mary B Mettlick (zool), A. R. Quartermann (agric), Dr P. A. Robins (chem.), apptd prof of chem., Royal Coll, Nairobi

## Statistics

### STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	230	40
Women	100	4
Total	330	53

Distribution by Faculties. Agric., 12, arts, 273 (incl 52 educn, 48 pt-time), sci., 98 (incl 5 pt-time) Total 383

Included in the figures above are —

Postgraduate students, 54 (52 educn, 2 res)

New admissions, 202

Students from other countries, 35 (Countries from which largest numbers came U.K., 20; S. Africa, 8)

Of the 330 full-time students, 241 are European, 74 are African, and 15 of other groups

DEGREES AWARDED (in relationship with Univ of London) (1961) *Abstr.* BA gen., 25 Sci., BSc gen., 16 Total number of first degrees awarded, 41 (First final exams for BA honours and BSc(Econ) in 1963)

DIPLOMAS AWARDED (1961). Pub. admin., 3

CERTIFICATES AWARDED (1961) Educn., 34



# SIERRA LEONE

Foursah Bay College  
The University College of Sierra Leone (p. 860)

SIERRA LEONE



# FOURAH BAY COLLEGE THE UNIVERSITY COLLEGE OF SIERRA LEONE\*

Incorporated by Royal Charter, 1960, established as Fourah Bay College, 1827

Postal Address: Freetown, Sierra Leone, West Africa

Cables and Telegrams: Fourahbay

Telephone: Freetown 3400

VISITOR—H. M. THE QUEEN

PRESIDENT—The Most Rev and Rt Hon Dr A. M. RAMSEY, ARCHBISHOP OF CAMBRIDGE

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VICE-PRINCIPAL—A. T. PORTER, BA Durb, MA Camb, PhD Boston

REGISTRAR—M. R. O. GARRER, BA BCL, Durb, LLB Lond

BURSAR—H. G. HALL

LIBRARIAN—M. A. JULIUS, BA DipL Lond., FLA

## TEACHING STAFF

(†=Part-Time)

Accounting					
Hall, S., MA Manc., FCA	Lectr	Fuller, Helen M., BA Oxon.	Asst Lectr		
African Studies		Economics			
Porter, A. T., BA Durb, MA Camb, PhD Boston	Prof	Davies, J. H., MA Wales	Prof		
		Lury, D. A., BSc(Econ) Lond (Stats) St	Lectr.		
		Van der Leun, H., EconDiss E H Rotterdam,			
		MSc Wru	Lectr		
		Dixon-Fyle, S. R., BA(Econ) Durb	Lectr.		
		Speckman, Ann, BA Oxon (Pol. Instrns.)	Lectr		
		Levitt, M. S., BSc(Econ) Lond	Lectr		
		Harrup, Mrs Sylvia, BSc(Econ) Lond			
		(Econ Hist) Asst Lectr			
		Education			
		Hockey, S. L., MA DipEd Brnt.	Prof.		
		Ferreira, O. M., BA Madr., MA Lond	Lectr		
		Herbert, A., MA Durb, DU Pass	Lectr.		
		Engineering			
		...	St. Lectr		
		Thomas, M. E. K., BSc St And,			
		PhD Leeds	Lectr.		
		Nicholl, B., BSc(Eng) Lond.	Lectr.		
		English			
		Creighton, T. R. M., MA Camb	Prof.		
		Murrell, R. C. R., MA Camb	Sr Lectr.		
		Jones, E. D., BA Durb., MA Oxon.	Lectr.		
Botany					
Taylor, F. J., MSc Sheff, PhD Lond., FLS	St Lectr				
Gledhill, D., BSc Durb, FLS	Lectr				
Matturi, S. T., PhD Hull, BSc Hull & Lond	Lectr				
Longman, K. A., BSc Wales, PhD Manc	Lectr				
Chemistry					
Downing, E., OBE, BSc PhD Lond., FRIC	Sr Lectr				
Cole, I. S. A., MA Camb.	Lectr.				
Taylor-Smith, R. E. K., BSc PhD Lond.	Lectr				
Henry, A. J., BSc Lond, PhD DSc R'dg.	Lectr.				
Wright, E. H., BSc PhD Hull	Lectr				
Classics					
Dolphin, Miss Linda M., MA Oxon.	Sr Lectr.				
Wikramanayake, G. H., BA Lond., MA Oxon	Lectr.				
Hallup, J. H., MA Lond	Lectr.				

\* Associate Member of the Association of Universities of the British Commonwealth

Edwards, P. G., BA <i>Durb.</i> , MA <i>Camb.</i>	Lectr.	<b>Philosophy</b>	
Carroll, D. R., BA <i>Durb.</i> , MA <i>Leind.</i>	Lectr.	Ferguson, Rev J P, MA <i>Glar.</i> , BA <i>Oxon</i>	
Smart, N D J, MA <i>St And</i>	Lectr.		
<b>Geography</b>		Kenner, L., MA <i>Aberd.</i> , PhD <i>Lond</i>	Sr Lectr.
Andeison, M. M., BSc <i>Wales</i> (Geol) Se	Prof	Fallen, Helen M., BA <i>Oxon</i>	Asst Lectr.
Mitchell, P. K., BA <i>Durb</i>	Lectr.	<b>Physics</b>	
Craigh, J., BSc <i>Durb</i>	Lectr.	Awunor-Remner, E. R. T., BSc <i>Hull</i> ,	Prof
<b>History</b>		MSc <i>Lond.</i>	
Kup, A. P., MA PhD <i>St And.</i>	Sr Lectr.	Rivers, D. G., BSc <i>Lond.</i>	Lectr.
Hsu, P. S. H., MA <i>Camb.</i> , DPhil <i>Oxon</i>	Lectr.	Lane-Smith, D. R., MSc <i>Manc</i>	Lectr.
<b>Law</b>		<b>Theology</b>	
Tuboku-Metzger, F. C., BA LLB <i>Durb.</i>	Lectr.	Sawyers, Canon H. A. E., CBE, MA	
<b>Mathematics</b>		MEd <i>Durb</i>	Sr Lectr.
Zulauf, A., DrRerNat <i>Mainz</i> , PhD <i>Lond.</i>	Prof.	Gibson, H. M., MA <i>Glar.</i> , BD <i>St And</i>	Lectr.
Smith, E. M. R., BSc <i>Lond.</i>	Sc. Lectr.	Thompson, Rev P E S., MA	Lectr.
Williams, E. J. A., BSc PhD <i>Belf</i>	Sc. Lectr.	DipTheol <i>Durb</i>	[Lectr.
Amun, Y. A., BSc PhD <i>Lond</i>	Lectr.	<b>Zoology</b>	
Jonah, D. A., BSc <i>Wales</i> , PhD <i>Bum</i>	Lectr.	Phupps, J., MSc <i>Lond</i>	Sr Lectr.
Turner, J. C., BSc <i>Lond</i>	Lectr.	Smith, L., BSc <i>Durb.</i>	Lectr.
		Chaytor, D. E. B., BSc <i>Aberd.</i> , PhD <i>Lond</i>	Lectr.
		Williams, M. O., BA <i>Durb.</i> , PhD <i>Glar.</i>	Res Fellow
<b>Modern Languages</b>		<b>EXTRA-MURAL STUDIES</b>	
Granden, J. H., MA <i>Camb.</i>	Lectr.	Hatch, J. C., BA <i>Camb.</i>	Dir
Kirkman, Eunice, MA <i>Leind</i>	Lectr.	Cole, C. R. A., BA <i>Durb</i>	Tutor
	Lectr.	Lawrence, P. P., BA <i>DipEd Durb</i>	Tutor
	Lectr.	Roberts, G. O. MA PhD <i>C.U.A.</i>	Tutor

## ADMINISTRATIVE AND OTHER STAFF

Med Officer: R O Pratt, Chaplain: Rev. P. E. S. Thompson, BA *DipTheol Durb*, Asst Registrar: I S A. Cole, MA *Camb*, Asst Bursar: G. A. P. Hamilton, Accountant: Asst Librarian: Mrs Olive S. Coulter, MA *Chc*, MA(LibSc) *Peabody*, Mrs Gladys M. O. Sherriff, BA *Durb*, Warden of

Students: Rev J P. Ferguson, MA *Glar.*, BA *Oxon*, Dep Warden: J. H. Harrop, MA *Lond* (men), Miss Linda M. Dolphin, MA *Oxon* (women), Wardens of Halls: D. A. Jonah, BSc *Wales*, PhD *Bum*, E. H. Wright, BSc PhD *Hull*, R C R. Moxell, MA *Camb*

## GENERAL INFORMATION

The coll. was founded by the Church Missionary Soc. in 1827. In 1876 it became affiliated to the Univ of Durham. The coll is an independent instn., governed by a council, incorporated under royal charter granted by H.M. the Queen on Jan. 11, 1960.

The coll is situated on Mt Aurel, on the outskirts of Freetown (pop. 200,000), capital city of Sierra Leone.

Construction follows closely the pattern of the

English civic univs., with a council consisting of lay and academic members as the governing body, and a senate and bds of facs responsible for all academic matters.

INCOME (1960-61). £310,246 (Sierra Leone govt. grant, 84 per cent.; tuition & residence fees, 13 per cent.; misc., 3 per cent.).

Colonial Devt. and Welfare grants together with the Sierra Leone govt. contribution totalling £1,466,000 have been made for stages I and II of

the coll. devel. programme which covers halls of residence, sci labs., dining halls and kitchen and staff houses

**FACULTIES AND DEANS (1961-62).** *Appl sci.*, E. M. R. Smith (maths.); *arts*, ... , *econ. studies*, Prof. J. H. Davies; *educn*, Prof. S. L. Hockey, *sci*, Prof. A. Zulauf (maths.); *theol*, Canon H. A. E. Sawyerr.

**COLLEGE PROGRESS.** Some of the bldgs. are still of a temp. nature though rehbldg. is well advanced. Sci labs., women's hall, dining halls, modern kitchens, 45 staff houses and a substantial pt. of the men's halls are already completed. The next phase takes in complete redvel. of central area of college, which comprises new bldgs. for the library, arts and econ. teaching blocks, admin. offices, great hall, chapel and other bldgs. Houses for extra-mural tutors are being provided in provincial centres.

**LIBRARY.** 32,000 vols. Sp<sup>t</sup> Sierra Leone collection. 870 serials received.

**BOTANICAL GARDEN AND ARBORETUM** in process of devel.

**ADMISSION.** As for Univ. of Durham (see Appendix III), except that a lang. other than Engl. is not required for matric.

**FIRST DEGREES (of Univ. of Durham).** BA gen., BA(Econ), BSc gen., 3 yrs., BA hons., BA(Econ) hons., BSc hons., 4 yrs. (hons. schs. in econ., Engl. and maths. only).

BA gen., 1st exam., 4 subjs., and and final exams., each 3 subjs. (1 subj. must be offered for all 1 yrs., and 1 for 1st and 2nd yrs.). BA hons.: 1st yr., as for BA gen., and yr., prelim. hons. exam. (hons. subj. plus 1 subadj.); 3rd yr., hons. subj. plus 1 subadj., 4th yr., final hons. exam. BA(Econ) 4 subjs. in each of 3 yrs. (1st, 2nd and final exams.). BA(Econ) hons., 1st yr., as for BA(Econ), and yr., prelim. hons. exam., 3rd yr., hons. course (no exam.), 4th yr., final hons. exam. BSc gen., 1st yr., 4 subjs. level I; 2nd yr., 2 subjs. level II (or 1st yr., 3 subjs. level I, and yr., 3 subjs. level II); 3rd yr., final exam. (2 subjs.). BSc hons., 1st and 2nd yrs., as for BSc gen., 3rd yr., hons. exam. (3 papers); 4th yr., final hons. exam. (3 papers).

**CERTIFICATES (of Univ. of Durham).** The coll. provides a 3-yr. course leading to the cert. in biblical studies of the Univ. of Durham.

**DIPLOMAS.** The coll. provides courses leading to the dipls. in theol. (2 yrs.), econ. studies (2 yrs.), educn. (1 yr. postgrad.) and pub. admin. (2 yrs.) of the Univ. of Durham. The coll. awards a dipl. in engin. (3 yrs.) and licence in div. (3 yrs.).

**RESEARCH.** Details given in *Annual Report of principal*.

**STUDY LEAVE.** Normal entitlement: 1 term every 7 yrs., after 5 yrs. service.

**FEES.** Tuition, £40-£60, dipl. in educn., £75, union, £2; registration, 10s; exam., £2; 10s.-£4 per session.

**ACADEMIC YEAR.** Three terms of about 9 wks. each: Michaelmas—Oct to Dec, Epiphany—Jan to March, Easter—April to June.

**EXTRA-MURAL WORK.** Seasonal classes, short residential courses, week-end conferences, occasional sp. lectures and annual residential sch.

**'OPEN' AWARDS.** Agency for Internat. Devel. schols. (funds from U.S. govt.) to read for BSc, BA(Econ) and DipEng.

**GRADUATES' ASSOCIATION.** Fourth Bay Coll. Old Students' Union.

**STUDENT RESIDENCES.** Students are required to reside full-time in coll. Fees, £105 per session.

**STAFF ACCOMMODATION** is provided at reasonable rent (incl. charges for water supply and elect. appliances).

**HEALTH SERVICE.** Resident coll. M.O. and nurses, sick bay for men and women, open to students and staff.

**STUDENTS' UNION.** All full-time registered students are members. Pres. and exec. cttee. elected annually by student body and take office on 1st day of Easter term.

**PUBLICATIONS.** *Calendar*, *Annual Report*; *Prospectus*.

**BOOKSHOP.** Coll. bookshop functions as branch of C.M.S. bookshop in Freetown.

## THE YEAR 1961.

**PRINCIPAL BENEFRACTIONS.** Govt. of Fed. of Nigeria, £30,000 independence gift for new admin. bldg. incl. new council chamber, United Africa Co. of Sierra Leone, £12,500 to independence bldg. appeal; Diamond Corp. of Sierra Leone, £32,000 to create Philip Oppenheimer dept. of geol., Nuffield Foundation, £10,100 for res. in marine biol.; estate of W. R. Harding, £10,000 for gen. coll. funds (Total value of all benefractions received: £95,000).

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: 1st new men's hall of residence, chem. stage II.

**NEW DEPARTMENTS AND CHAIRS.** Chairs of: educn., phys., hist., geog.; dept. and chair of African studies.

**RESIGNATIONS.** N. A. W. Cov-George (econ.), apptd. to chair of econ., Naukka, E. G. Dunstan (phys.); R. S. Birkett (librarian), apptd.

Ibrahman, Ife, K Gyasi-Iwum (econ), M B  
Pasood (engin)

HONORARY DEGREES DCL—H R H the Duke  
of Kent, Sir Milton Margui, prime minister,  
Sierra Leone

# Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men .	325	—
Women .	23	—
Total .	348	—

Distribution by Faculties. *Appl sci*, 11, *arts*,

135, *econ*, 104; *edues*, 11; *sci*, 84, *theol*, 3  
Total, 348

*Included in the figures above are —*

Postgraduate students, 11.

New admissions, 123

Students from other countries, 210 (Countries  
from which largest numbers came: Nigeria, 192;  
Gambia, 11)

DEGREES AWARDED (by Univ of Durham)  
(1960-61) *Arts* BA, 17 *Econ* BA(Econ), 18  
*Sci* BSc, 10

DIPLOMAS AWARDED (1960-61) *By Univ of*  
*Durham* DipEd, 12, DPA, 1 *By coll*  
DipEng, 1



# SINGAPORE

Nanyang University (p. 866)

University of Singapore (p. 870)

# NANYANG UNIVERSITY\*

Founded 1953

Postal Address: Jurong Road, Singapore, 22  
Cables and Telegrams: Nanyang University, Singapore  
Telephone: Singapore 68779

CHAIRMAN OF UNIVERSITY COUNCIL—L. S. TAN

VICE-CHANCELLOR—C. L. CHUANG, MSc PhD Mich

DEANS OF COLLEGES—ARTS—Y. C. YEN, MEd San Yat Sen, PhD Lond (Educn), COSMERC—K. K. LEU, BCom Chu-Nan, MA Mich (Accty), SCIENCE—K. T. LI, DSc Lyons (Biol)

TREASURER—T. K. KO

REGISTRAR—W. H. H. LIU, BA Car, MA Mich

LIBRARIAN—Y. T. CHENG, BA Peking Normal

CHAIRMAN OF BOARD OF STUDENT WELFARE—G. G. TAN, BAS G.Williams, BSE MA(Educn) St. Thomas(Maula)

CHIEF BUSINESS OFFICER—A. SING, DenDroit Paris

## TEACHING STAFF

(†=Part-Time)

### Accountancy

Lau, K. K., BCom Chu-Nan, MA Mich

Prof., Hd. of Dept

Ting, D. C., BL Fu Tan, BCom Edm

Prof

Wang, Y. C., BA Natal Pol. & Ill

Prof

Chung, G. C. N., BA Harding,

†Lectr.

MA Oklahoma

ONG, T. C., BA HK.

†Lectr.

Liu, C. P., BA Camb

†Lectr.

Moon, Mrs M

†Lectr.

5 Grad. Assts.

### Banking and Finance

Foo, Y. K., LLB Saichon, BCom Chu-Nan,

JSD George Washington Prof, Hd of Dept.

Tseng, C. T., BA Wash, MA Harv

Prof

Shen, D. Z., BCom ShanghaiComus Coll.,

Prof.

MA Northwestern

Kuo, R. K. Y., MA Wash, PhD NY

Prof.

Reimer, C. F., BA Miss., MA PhD Harv.

Prof.

Chew, D.

†Lectr.

Goh, K. L., BA Malaya

†Lectr.

Boxhall, Mrs Jennifer N

†Lectr.

1 Grad. Asst.

### Biology

Huang, H. K. H., BA Nebraska W,

MA Cal

Prof, Hd of Dept.

Li, K. T., DSc Lyons

Prof.

Li, L. K., MSc Lyons

Prof

Harrison, J. L., ARCS, DSc Lond.

Prof.

†; SC. L., BA W Chuan-Tsun, MSc, Yenching

MSc Virginia Polytech Assoc. Prof.

Tang, M. C., BSc Canton Arts & Sci. Coll

Lectr.

Wu, C. S., BSc Chic, MD ash.

†Lectr.

7 Grad. Assts

### Chemistry

Wang, Y. S., MS(Chem) Mich

Prof, Hd of Dept

Chun, D., MSc Natal Kwang

Prof

Ibu, Y. S., BSc Natal PekingTech Inst,

MSc Alabama

Prof

Lau, S. T., BLing San Yat Sen,

MSc CaseTech Inst.

Assoc. Prof

Cheng, T. C., BSc Natal Chokiang,

MSc Ill

Assoc. Prof

7 Grad. Assts

### Chinese Language and Literature

Chung, K. M., BA Fu Tan

Assoc. Prof, Hd. of Dept.

Kuo, H. C., BA(Ed) Natal Wo-Cheng

Normal, MA Cal

Prof

Fu, L. P., BA Hua Chung, LLB Ming Ch'.

Prof

Hwang, S. W., BA Nani Central

Assoc. Prof

Chang, S. S.

Assoc. Prof

Chu, C. H., LLB Assy,

BA Natal S W Union

Assoc. Prof

\* Member of the Association of Universities of the British Commonwealth

Tsao, S. M., BA *St John's*,  
LLB *Natal Wooning*  
Cheng, Y. T., BA *Peking Normal*  
5 Grad Assts

**Economics and Political Science**

Huang, Y. T., BA *Chih Tai*, LLB *Seochow*,  
JSD *George Washington* Prof., Hd of Dept  
Hsieh, J. T., LLB *Natal Pol*, BLitt *Oxon* Prof.  
Liu, W. C., MA *Choe*, JD *Northwestern* Prof.  
Liu, P. H., MA PhD *N.Y.* Prof.  
Li, H. L., BA *China Natal*,  
MA *Tokyo Imperial* Prof.  
Yang, S. J., BA *Fu Tau* Prof.  
Tung, C. L., BA *Fu Jen*, DrRerPol *Bonn*  
Assoc. Prof.  
Hu, H. S., LLB *Amoy* Lectr.  
2 Grad Assts

**Education**

Yen, Y. C., MEd *Sun Yat Sen*, PhD *Lond*  
Prof., Hd of Dept.  
Hua, G. L., BEd *Tamam Normal*,  
PhD *Frib* Lectr.  
Pao, Y. C., BEd *C.U.A.*, MA *N.Y.* Lectr.

**Geography**

Hsueh, C. H., BS *Natal Central*,  
MS *Caf. Tech* Prof., Hd of Dept.  
Tsou, P. C., BSc *Peking Normal*, MA *Liv* Prof.  
Cheng, T. Y., BSc *Peking Normal*,  
MSEd *Tokyo* Prof.  
Ho, C. R., BA *Natal Chekang* Assoc. Prof.  
Chung, I. M., BA *Natal Chekang*,  
MSc *III* Assoc. Prof.  
2 Grad Assts

**History**

Yu, H. C., BA *Yenching*, MA *Calgate*  
Prof., Hd of Dept.  
Ho, S. C. Prof.  
Wang, T. C., BA *Natal Peking*, MA *Harv.* Prof.  
Wen, C. I., BA *Natal Taiwan* Lectr.  
Tan, Linda K., BA *Malaya*, MS *Wia* †Lectr.  
2 Grad Assts

**Industrial Management**

Yang, C. C. F., MBA *N.Y.*, PhD *Col.*  
Assoc. Prof.  
Liu, W. H. H., BA *Car*, MA *Mish.* Prof.

Hsu, P. S., MA *Ohio* Prof.  
Su, J. T. S., MA PhD *Ill* Prof.  
Tan, E. S., BSIE *Miami*, MBA *N.Y.* †Lectr.  
Eng, H. H. F., BA *Yale* †Lectr.  
Dechant, A. J., BSc *Lond.* †Lectr.  
Lau, H. K., DipI *Star* †Lectr.  
Thuo, G. H., BEng *Malaya* †Lectr.  
Leung, P., BS *Carolina* †Lectr.  
3 Grad Assts

**Mathematics**

Chin, J. L., BSc *Peking Normal*, MSc *Choe*,  
Prof., Hd of Dept.  
Hsia, C. C., DesSc *Frib* Prof.  
Chu, M. L., BSc *Natal Chungking* Assoc. Prof.  
Pang, I. F., BSc *Natal Choo Tung* Lectr.  
Loh, H. T., BA *Frib*, MA *Oklahoma* Lectr.  
Yang, H. N., BSc *Chi-Nan*, MSc *Oregon* Lectr.  
Chow, K. L., MSc *N.Z.*, BSc Lectr.  
5 Grad Assts.

**Modern Languages and Literature**

Jao, Y. W., BA *Natal Tung Hua*, MA *Bdm*,  
Prof., Hd of Dept.  
Montri, A. Prof.  
Saunders, W. A., MA *Mich* Assoc. Prof.  
Serpell, Mrs. Estelle A., BA *Lond.* Assoc. Prof.  
Lo, T. S., LittDrs *Indonesia* Assoc. Prof.  
Maman, M. R., BA *Indonesia* Assoc. Prof.  
Ramish, Lucille M., BBE *BA Gordon* Lectr.  
Ruckman, P., LLD *Louvan* Lectr.  
Augustine, K. A., BA, BL, *Tow* †Lectr.  
Schultz, F. A., DrPhil *Bonn* †Lectr.  
Latham, L. C., BSc(Econ) *Lond*, FRAI †Lectr.  
Milne, Mrs. Marjorie E., MA *Oxon* †Lectr.  
Fernando, L. G. (Speech) †Lectr.  
Koma, M., BA *Peking* †Lectr.  
Eshan bin Ali †Lectr.  
Chopra, N. T. S. †Lectr.  
3 Grad Assts.

**Physics**

Choong, S. P., BSc *Peking*, DSc *Paris*  
Prof., Hd of Dept.  
Liang, S. H., BSc *Natal Central*,  
EE *Tokyo Tech Inst* Assoc. Prof.  
Leo, H. K., BSc *Peking* Assoc. Prof.  
Ho, H. S., BSc *Sun Yat Sen* Lectr.  
Hsueh, Y. Y., BSc *Chi-Nan* Lectr.  
Yap, C. T., DipTh *Lond.*, BA *Oxon*. Lectr.  
7 Grad Assts.

**ADMINISTRATIVE AND OTHER STAFF**

Dn., Prep. Class. P. H. Liu, MA PhD *N.Y.*  
Sec. to Vice-Chancellor: S. M. Tsao, BA *St John's*, LLB *Natal Wooning*  
Sec. to Registrar: S. S. F. Chao, LLB *Natal Peking*  
Sec. of Univ. Press: T. S. Yap, BA. Univ. Health Physician: C. S. Wu, BSc *Choe*, MD *Wash.*  
Dir. of Phys. Educn.: L. C. Chang, BS *Tsing Hua*, MPE  
Springfield; Y. N. Lee. Admin. Assts.: K. H.

Lam, BA; H. C. Yeo, BA; K. H. Ng, BA; Miss  
Siew-Pun Yee, BA; S. L. Liow, BA Acctg.  
Officers: H. M. Lee, BCom; S. S. Lim, BCom.  
Library Assts.: T. N. Koh, BA, Miss Wuan-  
Hong Yap, BA, C. K. Chea, BA. Wardens of  
Student Residences: K. T. Chin, BA; Y. C.  
Young, BSc; Miss Eng-Be Wong, BA.



## AFFILIATED INSTITUTION

**INSTITUTE OF SOUTHEAST ASIA**, c/o Nanyang Univ., Jurong Rd., Singapore (tel. 68779) (1957).  
Dir.—. . . . . Function of inst is to collect source materials on S.E. Asia for res. and reference, and to publish academic res. papers, and reference

books. Scope incl many aspects of S.E. Asia, with sp reference to hist, geog. and econ. Inst also intends to assist scholars outside the univ. in their academic res. and surveys.

## GENERAL INFORMATION

Establd. in 1953 to meet the demand for higher educn. for students from both Chinese and English soc. schs. in Malay and neighbouring countries, the univ. owes its origin to Mr Tan Lark Sye, a philanthropist of Singapore who announced that he would subscribe M\$5,000,000 to the univ. funds. The univ. was registered in 1953 in both Singapore and the Fed of Malaya under the Companies Ordinance and acquired thereby the status of a legal corp. The Singapore Hokien Assn. donated 500 acres (which now has on it bldgs & equipment costing about M\$13 millions) at 14½ milestone, Jurong Rd., Singapore, for use as univ. campus.

The Nanyang Univ. Ordinance came into effect in May 1959 and was promulgated in the Singapore govt. gazette.

The univ. with its 3 colls. (arts, comm., sci.) is located in Singapore (pop. 1,712,600), a self-governing state to S. of Fed. of Malaya.

**CONSTITUTION.** Supreme governing body is univ. council. Senate, responsible for academic matters, consists of the vice-chancellor (chairman), deans of colls., registrar and hds. of depts.

**INCOME** (1961). Total income: M\$2,264,474 (tuition and other fees, 91.7 per cent., contributions, 6 per cent., donations, 1.6 per cent., misc., 0.7 per cent.)

**COLLEGES AND DLANS.** See p. 866

**UNIVERSITY PRECINCT.** Colls. of arts, comm., and sci., admin. office, library, clinic, 2 dining halls, and staff and student residences are situated on 200 acres of developed land at 14½ milestone, Jurong Rd., in N.W. pt. of state of Singapore. Bldg. of auditorium, addnl. admin. block and students' union under constrcn.

**LIBRARIES.** Univ. libr.: 107,000 vols. (incl. 71,000 Chinese books), about 35,000 vols. of periodicals, 4 reading rooms. Reference branch libr. in each coll.: arts (3500 vols.), comm. (500 vols.), sci. (1500 vols.); deptl. reference rooms.

**LABORATORIES, MUSEUMS.** Bot., chem., phys. 2 sci. museums.

**ADMISSION.** Grads. of Chinese 3-yr. sr. middle schs., govt. sr. middle 3-yr. cert. holders, and holders of a Cambridge Overseas Higher Sch. Cert. are eligible to sit entrance exam. for 1st-yr. class of the univ. Students of recognized univs., who have studied for more than 1 yr. and whose scholastic records are considered satisfactory by Nanyang Univ., may sit a transfer exam. on pass-

ing which they may be admitted to appropriate classes. Grads. of prep. classes may also enrol as 1st-yr. students of the univ. Med. exam. of fitness required of all students.

**FIRST DEGREES.** BA, BSc, BCom—4 yrs. The univ. operates an hour-credit system in all colls. Each student must have a min. of 128 credits before he can sit the graduation exam. (conducted jly. by internal and external examiners).

Courses cannot be taken on pt.-time basis.

No HIGHER DEGREES are awarded.

RESEARCH is undertaken by individual members of teaching staff.

STUDY LEAVE may be granted, subj. to approval of univ. authority, where it can be arranged without serious inconvenience to work of univ.

**FEES.** Entrance exam., M\$10, caution money, M\$30; lab. deposit (sci. coll.), M\$20, tuition, M\$720 p.a., lab. fee (sci. coll.), M\$50 p.a., lecture notes, M\$30 p.a.; student health, M\$10 p.a., phys. educn., M\$10 p.a.

**ACADEMIC YEAR.** Feb. to Nov., 2 semesters of 18-19 wks. each.

**LANGUAGES OF INSTRUCTION.** English and Chinese. Good knowledge of both expected of students in most depts. Engl. is principal lang. of instructn. in dept. of mod. langs. and lit. and in certain courses.

**PRINCIPAL 'OPEN' AWARDS.** Bursaries offered annually by govt. of Singapore to suitable candidates who are citizens of Singapore studying at Nanyang Univ. Scholcs. also offered by foundations, firms, etc.

**GRADUATES' ASSOCIATION.** Nanyang Univ. grads. guild.

**STUDENT RESIDENCES.** 19 blocks (men), 6 blocks (women) with total of 968 rooms accommodating 1936 students. Fees (incl. full bd.): M\$70 per month.

**STAFF RESIDENCES.** All teaching and admin. staff provided with free furnished quarters. 25 bungalows and 176 flats are being brought into use.

**STUDENT HEALTH SERVICE.** Univ. provides med. attention, when required, for all students and staff. Clinic with physician and nurses, dental surgeon.

**STUDENTS' UNION.** All students of the univ. are members of the Nanyang Univ. 'students' union, which is administered by a 'students' council.

PUBLICATIONS *Annual Report*; *Univ. Regulations*, *Univ. Courses*, M\$1, *Handbook of Entrance Exam.*, M\$1, exam question papers; *List of Graduates*, *Bulletin of Inst. of S.E. Asia* (annually), M\$6; *Bulletin of Chinese Language*

and *Literature* (annually), M\$6; *Journal of History and Geography Soc.* (annually), M\$1.50; *Bulletin of Math. Soc.* (annually), M\$3, *Commerce* (annually), M\$1.50.

## THE YEAR 1961

PRINCIPAL BENEFACTIONS Total value of all benefactions received. M\$173,443

MAJOR BUILDING DEVELOPMENTS *Blids completed*, new biol lab *Approaching completion*, auditorium (to accomm. 5000); *extn to admin bldg*, students' union bldg

NEW DEPARTMENTS AND CHAIRS Dept. and chair of hist., dept. of geog.; dept and chair of accty.; dept. and chair of banking & finance

RESIGNATIONS. Prof. J. M. Yen (biol.), Prof. M. W. King (chem.); Prof. K. S. Tu (Chinese); Prof. Y. Hsu (Chinese), Prof. T. H. Liu (Chinese), Prof. T. K. Tan (econ.); C. T. Ma (econ.), Prof. S. L. Keng (educn.); Prof. H. L. Tchang (geog.); Prof. Y. T. Hsu (geog.), C. T. Wu (geog.), Prof. K. Y. Cheng (hist.), Prof. C. H. Wu (hist.); C. C. Wen (hist.); A. L. Williams (indust. management), Prof. P. Pan (maths.); Prof. C. L. Wong (mod. langs. & lit.); Mrs. E. Huang (mod. langs. & lit.).

DEATHS S Chuang (assoc. prof., phys.)

## Statistics

STUDENT NUMBERS, 1962  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1654	—
Women	425	—
Total	2109	—

Distribution by Colleges. Arts, 988; comm., 374; sci., 747. Total 2109.

Included in the figures above are:—

Postgraduate students, nil

New admissions, 687

Students from other countries, 219. (Countries from which largest numbers came: N. Borneo, 94; Indonesia, 41).

DEGREES AWARDED (1961) BA, 194; BCom, 45; BSc, 146



Matchell, C. L., BCom Tor, MBA Br Col.	Lectr.	Olua, G. E., BA JUD Pragm, LLM Yale	Lectr.
McDonald, D., MBA Calif., BCom Br Col.	Lectr.	Athathandala, L. W., BA BCL Oxon.	Lectr.
Hall, N. A., BCom Br Col., MBA S. Calif.	Lectr.	Ellinger, R. P., Mjur Jernalea	Asst. Lectr.
PhD Hare	Lectr.	Thio, Mrs. Su-Mien, LLB	Asst. Lectr.
		Khetarpal, S. P., BSc Eng., BL Rangon.	Asst. Lectr.
		LLM PhD Lond	Asst. Lectr.
		Kuman, V., BA Peng., LLB Delhi,	Asst. Lectr.
		LLM Lond	Asst. Lectr.
		Minstarr, J., MA Modr., LLB Nag.	Asst. Lectr.
		PhD Lond, LLD Nywgon.	Asst. Lectr.
		Koh, T. B., LLB	Asst. Lectr.

## Education

Green, T. L., BSc MA Brit.	Prof.	Mathematics	
Tai, C. H., BA Peking, MA EdD Cal	Se. Lectr.	Croze, D., BSc Lond., BA PhD Camb.	Prof.
Wong, Ruth H. K., BA Belf., DipArts	Sr. Lectr.	Dismore, P. H., BSc Lond., MA	Reader
Gregory, J. S., BA DipEd Lond	Lectr.	PhD Camb.	
Geh, Mrs. Suk Tin, BA DipEd	Asst. Lectr.	Guy, R. K., MA Camb., DipEd Barre.	Sr. Lectr.
de Cruz, R. M., BA DipEd	Asst. Lectr.	Guba, U. C., MSc Calc., PhD Lond.	Sr. Lectr.
Leok, Grace, BSc DipEd	Asst. Lectr.	Lancaster, P., MSc Liv.	Sr. Lectr.
Patel, Mrs. Yvonne, BA Not.,	Asst. Lectr.	Wicks, M. J., MSc Brit.	Lectr.
Centre Lond	Asst. Lectr.	Bredy, E. J., BS Calif., PhD Prin.	Lectr.
Bhattacharya, Miss Ranu, BA DipEd	Asst. Lectr.	Lam, Miss Lay Yong, BA Camb. & Malays	Asst. Lectr.
Chew, Miss Guan K., BA DipEd Syd	Asst. Lectr.		

## English

Enright, D. J., MA Camb.	Prof.	Pharmacaceutics	
DLit Alexandria		Elhott, T. H., BSc Rosd., PhD, FRIC	Prof.
de Chateau, E. B., BLitt Oxon., BA Lond	Sr. Lectr.	Robertson, J. S., BSc Lond.	Lectr.
		Wan, S. C., BPharm Not., PhD	Lectr.
Huang, R., MA Comu, PhD Northwestern	Sr. Lectr.	Harmon, J., BPharm Lond., DipPharm	Lectr.
		Tao, Mrs. Chuen Chu, BPharm Lond	Lectr.
Painter, A. B., MA Camb	Lectr.	Natarajan, P. N., MPharm Bar.	Lectr.
Baker, M., BA Lond., DipArts	Lectr.	DrRes Nat Mus.	Lectr.
Sherry, N., BA Dub.	Lectr.	Mitchell, A. G., BPharm PhD Lond	Lectr.
Rawlinson, D. H., BA DipEd Camb.	Asst. Lectr.	Wan, Miss Lucy, BPharm	Asst. Lectr.
Pennell, R., BA Oxon	Asst. Lectr.		
Gunn, Moore, MA Edin., BLitt Oxon	Asst. Lectr.		

## Geography

Wikramatike, W. A. R., BA Ceyl.	Prof.	Philosophy	
MA Clark, PhD Lond		Khan, R. F., MA Bar., PhD Lond.	Prof.
Ooi, J. B., DPhil Oxon., MA	Lectr.	Croft, F., BA Oxon.	Lectr.
Lee, Y. L., BLitt Oxon., MA	Lectr.	Ho, W. M., MA	Lectr.
Nosman, J. J., MSc Aust., ScD Ley	Lectr.	Pusher, E. M. W., MA Oxon	Lectr.
Sandha, K. S., MA Br. Col., BA	Lectr.	Lee, Miss Kee Kue, BA	Asst. Lectr.
Nieuwolt, S., PhD Vienna	Lectr.	Locke, D. B., MA NZ.	Asst. Lectr.
Neville, R. J. W., MA NZ.	Asst. Lectr.		
Hill, R. D., BA Woll	Asst. Lectr.		

## History

Tregonning, K. G., BA Adst., BLitt Oxon.	Prof.	Physics	
PhD		Gatha, K. M., BSc Bar., MS Pitt.	Prof.
Thio, Eunice, MA Hare, PhD Lond., BA	Lectr.	PhD Calif.	
Wong, L. K., PhD Lond., MA	Lectr.	Hon, Y. S., BSc Lond., MSc	Sr. Lectr.
Santharalingam, R., MA	Asst. Lectr.	Ho, P. Y., MSc PhD (Hist. of Sci.)	Reader
Mathan, G. I. T., BA DPhil Oxon.	Asst. Lectr.	Lim, Y. K., MSc PhD Melb.	Lectr.
Wen, C. C., MA Camb	Asst. Lectr.	Rajaratnam, A., PhD Lond., MSc	Lectr.
		Chong, A. Y. J., MSc	Lectr.
		Sen, K. K., MSc DPhil Cale	Lectr.
		Hue, M., MSc Doct., PhD Bern.	Lectr.
		Lee, Mrs. Engeline, MSc	Asst. Lectr.

## Law

Sheridan, L. A., LLB Lond., PhD Belf	Prof.	Political Science	
Groves, H. E., AB Colorado, JD Chic.		Milne, R. S., MA Oxon.	Prof.
LLM Hare		Jeyaratnam, K. J., MA Br Col., PhD Lond.	Lectr.
(Coastal Law) Asia Foundation Prof.		BA	
Green, L. C., LLB Lond. (Internat. Law) Prof.		Social Studies	
Bathelme, G. W., LLB Lond.	Sr. Lectr.	Robertson, Jean, MA Glas	Sr. Lectr., Hd of Dept.
LLM Tor.	Lectr.		
Chun, B. L., MA LLB Camb.			

Wee, Mrs. Ann, BSc(Econ) Lond.	Lectr.	Gwee, A. L., LMS, MRCP	† Lectr.
Fox, W. G., Dip SocSci Wales	Lectr.	Sreenivasan, B. R., LMS Hon LLD,	
Wigeyawardene, G. E. T., BA Camb.	Lectr.	MRCP	† Lectr.
Braga, Myrna, Dip SocSci	Asst Lectr.	Hassam, J., BPharm Lond, Dip Pharm	† Lectr.
		Coomaswamy, P., LLB Nott	† Lectr.

**Zoology**

Johnson, D. S., MA Camb., PhD Lond.	Prof.
	Reader, Hd. of Dept
Chuang, S. H., BSc Anny, MSc Brst,	
PhD	Se. Lectr.
Sherma, R. E., BSc Edin	Lectr.
Fernando, C. H., BSc Ceyl., DPhil Oxon.	Lectr.
Murphy, D. H., BSc Durh	Lectr.
Vigneswathi, K., BSc Ceyl.	Asst. Lectr.

**Medicine**

Ransome, G. A., FRCP	Prof.
Danaraj, T. J., MD LMS, FRCPed	St. Lectr.
Wong, P. K., MB BS, MRCP	Lectr.

**Medicine, Clinical**

Monteiro, E. S., DCH Lond., MD LMS,	
FRCP, FRFPSClas	Prof.
Khoo, O. T., MD LMS, FRFPSClas,	
MRCPed	Se. Lectr.
Toh, C. C. S., MB BS Syd., MRCP	Lectr.

**MEDICINE****Anaesthetics**

D'Beas, B. E. G., MB BS Mad., FFARCS	
	† Lectr.
Tay, G. S., MB BS, FFARCS	† Lectr.
Pais, P., MB BS, FFARCS	† Lectr.

**Anatomy**

	Prof.
Thamapillai, V., DipPhysAnthrop Oxon.,	
LMS	Se. Lectr.
Mohammed, A., MB BS Qum., PhD Lond.	
	Se. Lectr.
Rameshtham, Mrs. Maria, MD Odessa	Lectr.
Petel, B., MB ChB Glas	Lectr.
Ahmed, M. M., MB BS Karachi	Asst. Lectr.
Wong, W. C., MB BS	Asst. Lectr.
Krishnaswathi, A., BSc MB BS Madr.	
	Asst. Lectr.
Cheng, B. S. L., MB BS	Asst. Lectr.

**Bacteriology**

Lim, K. A., BSc MB ChB Edin.,	
DipBact Lond	Prof.
Lee, L. H., MB BS	Se. Lectr.
Lean, Miss Yu Sweet, BSc Adel.,	
MSc Q'd.	Asst. Lectr.
Pong, W. S., MB BS	Asst. Lectr.
Coggrave, Mrs. M. Y., MA BSc Tor.	
	Asst. Lectr.

**Biochemistry**

Dixon, T. F., BSc PhD Lond., FRIC	Prof.
Bowman, J. M., BSc PhD Ldg.	Se. Lectr.
McEvoy-Bowe, E., MSc N.U.I., PhD	Lectr.
Loh, K. H., PhD Edin., MSc	Lectr.
Wong, Miss Hee Aik, PhD Lond., BSc	Lectr.
Griffiths, L. A., BSc PhD Ldg.	Lectr.
Carnegie, P. R., BSc St. And.	Asst. Lectr.

**Dermatology**

Henderson, Lt.-Col. R. M., MD ChB	† Lectr.
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**Forensic Medicine**

Geller, B.	† Lectr.
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**Obstetrics and Gynaecology**

	Prof.
Tow, S. H., MB BS Lectr., Actg Hd of Dept	
Chakravorty, A. P., MB BS DGO	
MO Calc	Lectr.

**Ophthalmology**

Loh, R. C. K., MB BS Bow., FRCSed	† Lectr.
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**Oto-Rhino-Laryngology**

Seow, L. J., MB BS, FRCSed	† Lectr.
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**Pædiatrics**

Wong, H. B., MB BS, MRCP, FRFPs	Prof.
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**Parasitology**

Desowitz, R. S., BA Buffalo, PhD Lond.	Prof.
Zaman, V., MB BS Karachi, PhD	
DTM&H Edin	Lectr.
Lee, H. P., BSc Taiwan, PhD Tulane.	Lectr.

**Pathology**

Shannugasatnam, K., PhD DCP Lond.,	
LMS MD	Prof.
La Brooy, E. B., DCP Lond., MB BS	Lectr.
Muir, M. S., MB ChB Glas.	
(Asst. Curator, P. Museum)	Lectr.
Thomas, M. A., BA MB BS Madr.	Lectr.
Ali, M. Y., DKSM Khartoum, DCP	
DAP&E DTM&H Lond.	Lectr.
Tock, E. P. C., MB BS	Asst. Lectr.

**Pharmacology**

Lee, R. C. Y., BSc Pekin, PhD Camb.	Prof.
Yeoh, T. S., MB BS	Lectr.
Ogle, C. W., MB BS	Asst. Lectr.

**Physiology**

Kenney, R. A., BSc PhD Burw.	Prof.
Toh, C. C., PhD Lond., DipSc	Reader
Lee, T. S., PhD DipSc	Se. Lectr.
Kim, K. S., MD Seoul, MS PhD Ill.	Se. Lectr.
Ng, B. C., MB BS	Lectr.

Tan, Mrs. Pui Yong, BSc Lond., MSc	Lectr.	<b>Surgery</b>	
Elliot, Mrs. Annie, BSc Lond., MSc	Lectr.	Yeoh, G. S., MA MB BChir Camb.,	
Teo, B. H., MB BS	Asst. Lectr.	FRCS, FRACS	Prof.
Chen, Daily, MSc Adol	Asst. Lectr.	Yong, N. K., MB BS, FRCS	Lectr.
		Yeoh, K. S., MB BS Syd., FRCS	Lectr.
		Chan, K. T., MB BS, FRCS	Lectr.
<b>Psychological Medicine</b>			
Wong, Y. C., MB BS, MRCPed	†Lectr.	<b>Surgery, Orthopaedic</b>	
<b>Social Medicine and Public Health</b>		Gunn, D. R., MB ChB Edin.,	
Danaraj, Mrs. Winifred, MPH Haw.,		MChOrth Law, FRCSEd	Prof.
DCH Lond., LMS	Prof.	Khong, B. T., LMS	Res. Assoc.
Poharun, I. V., DM BCh MA BSc Oxon.	Reader	Yeoh, K. H., MChOrth Law, MB BS,	
Tye, C. Y., BA	Lectr.	FRCSEd	Lectr.
Ng, C. H., MB BS Cant., DTM&H Lond.,			
DPH	Lectr.	<b>Venerical Diseases</b>	
Ang, Mrs. Jink Weon, BSc Mich.,		Koh, K. Y., LMS	†Lectr.
MA Nashville	Asst. Lectr.		

## ADMINISTRATIVE AND OTHER STAFF

Health Physician: Z. N. Kadri, MD BS Bow, DTM&H. Asst. Registrars: B. R. Marks, BA; Mrs. Yee-Teh Lu Seneir, BA Syd., MA Yale, K. G. Lau, BCom MA Edin. Adman Assts.: V. R. Grosse; K. K. Chan, BA, T. S. Chan; D. P. Wyett, BA, Y. W. Choo. Asst. Librarians: Isobel Andrews, MA N.Z.; Mrs. Wang-Chen Hau Chun, LLB China, MA ML, Wash. Mass Kho Lan Tin, BA Indonesia, ML. Library Assts.: O. S. Tan; O. C. Khoo, BSc; Mrs. P. Lum, BA. Estate Officer: K. S. Cheng, BSc HK.

## GENERAL INFORMATION

The Univ. of Singapore was established on Jan. 1, 1962, by ordinance enacted by the state of Singapore. Its hist. dates back to the foundation of King Edward VII Coll. of Med. (1905) and of Raffles Coll. (1929). These 2 colls. were amalgamated in 1959 to found the Univ. of Malaya. On its foundation, the then Univ. of Malaya inherited the facs. of arts and sci. from Raffles Coll., the fac. of med. (incl. dent. and pharm.) from King Edward VII Coll. of Med. and the bldgs. of these 2 colls.

With the rapid expansion of univ. educn., a commission of inquiry was set up by the govt. of the federation of Malaya and of Singapore at the request of the univ. to review the constitution, working and finances of the univ. in the light of the experience and rapid expansion of the last 7 yrs. and of the prospective expansion in the near future, including the planning for developing the univ. in Kuala Lumpur and to make recommendations. Acting out of the commission's report a largely autonomous divs. of equal status, one in each territory, were established. This legislation came into effect on Jan. 15, 1959. The 'Univ. of Malaya in Singapore' was established on that date.

In 1960, the govt. of the fed. of Malaya and of Singapore indicated that with effect from the beginning of the session 1962-63 the 2 divs. of the univ. should become separate natl. univs. of the territories in which they were situated. Steps to achieve this were completed during 1961 and on Jan. 1, 1962, the Univ. of Singapore was established.

**CONSTITUTION.** The council is the executive body of the univ. and exercises all the powers of the univ. except those which are allotted by the constitution or by statute to another authority. The membership of the council is widely representative. The senate is the academic body of the univ. and has control of the general direction of instruction and res. It is composed of the profs. and hds. of depts. and some non-professional members.

The chief executive and academic officer of the univ. is the vice-chancellor, who is *ex officio* a member of the council and chairman of the senate.

**FINANCE.** The govt. of the state of Singapore is responsible for contributing to the annual recurrent costs of the univ.

**FACULTIES AND DEANS.** Arts, E. B. de Chickera (Engl.); Law, Prof. L. A. Sheridan; Med., Prof. E. S. Monteiro (clin. med.); Sci., Prof. H. B. Gilliland (bot.).

**UNIVERSITY PRECINCT.** The bldgs. of the 2 former colls. in Singapore are still being used, but there has been considerable devel. on these sites.

New bldgs. completed on the Raffles Coll. site include a large new multi-storey sci. block with associated lecture theatres, the addn. of new wings to the Oei Tiong Ham bldg. for use of the library and the facs. of law and arts. The Oei Tiong Ham bldg. has been completely renovated and now houses the entire admin. of the univ. At the med. coll. site a pathol. bldg., built in conjunction with the Singapore govt., has been

completed. The new inst. of health was opened in 1958 and is shared by the univ.'s dept. of soc. med. & pub. health, the Singapore govt. sch. health services and the maternity & child welfare section of the city council. King Edward VII Hall, a residential coll. mainly for med. students in their clin. yrs., was formally opened in 1957. Remodelling of the main bldg. provided addnl. space for the library and for lecture theatres.

**GEOGRAPHICAL LOCATION.** The facs. of arts, sci. and law and the admin. offices are on the Raffles Coll. site of about 80 acres at Cluny Rd. 10, while the fac. of med. is on the former coll. of med. site, 4 miles away at Sepoy Lines 3.

**LIBRARY.** Main library (for arts, sci., law), 130,300 vols. plus Chinese collection of 130,000. Med. and dent. library (on fac. of med. site), 45,000 vols. In addition, about 30 dept. libraries with from a few hundred to a few thousand vols.

**LABORATORIES, MUSEUMS.** Zool. field labs, at King George V natl. park, Pehang and Raffles Light, Singapore; pub. health museum, Kesth (pathol.) museum; D.S.I.R. radio res. substation (in assoc. with dept. of phys.); art museum.

**TEACHING HOSPITALS.** The main univ. teaching hosp. providing facilities for undergrad. or postgrad. teaching is the Govt. General Hosp. in Singapore; other hosps. used for teaching purposes are: Kandang Kerbau Hosp. (obstet. & gynaeol.), Woodbridge Hosp. (mental dis.), Middle Road Hosp. (V.D.) and Tan Tock Seng Hosp. (infectious dis.). Certain govt. hosps. in the Federation of Malaya are recognized as providing facilities for trg. prior to registration.

**ADMISSION.** Candidates are ordinarily required to take the Camb. overseas higher sch. cert. exam. which is regarded as the univ. entrance exam. For admission to 1st-yr. courses, candidates must have passes in either 2 subjs. at principal standard or one subj. at principal standard and 2 subjs. at subsidiary standard. A pass in the gen. paper is desirable but not compulsory. For sci. the subjs. must be chosen from a list. Exemption from 1st-yr. and admission to 2nd-yr. courses in sci., med. and dent. and pharmacy candidates must have full cert. with passes in the gen. paper and either 3 subjs. at principal standard or 2 at principal standard and 2 at subsidiary standard, the subjs. being chosen from a list.

Non-graduating courses are provided in the facs. of arts and sci. and admission to these is subject to the approval of the dean concerned.

**FIRST DEGREES.** BA gen. and hon.—3 yrs. Gen. degree in 1 principal subj. and 1 subsidiary subj. Hon. degree in 1 subj. chosen from Chinese, econ., Engl., geog., hist., maths., philos., BSc pass—3 yrs. from admission to 1st yr., 2 yrs. from admission to 2nd yr., hon.—after 4th yr. Pass degree in 2 subjs., hon. degree in 1 subj., chosen from biochem., bot., chem., geog., maths.,

phys., physiol., zool. MB BS—6 yrs. from admission to 1st yr., 5 yrs. from admission to 2nd yr. BDS—5 yrs. from admission to 1st yr., 4 yrs. from admission to 2nd yr. LLB—4 yrs. BPharm—4 yrs. from admission to 1st yr., 3 yrs. from admission to 2nd yr.

**HIGHER DEGREES.** Open to grads.—MA, MSc, LL.M. (1 yr.'s residence), Ph.D. (2 yrs.' residence), open to grads. of 3 yrs.' standing—MD, MSc, MDS; open to masters or Ph.Ds. of 5 yrs.' standing—DSc, DLitt, DDS, LL.D. Dipl. holders of the King Edward VII Coll. of Med. (LMS) and of Raffles Coll. (DipArts and DipSc) and grads. of other univs. may also be admitted to higher degrees of this univ.

**HONORARY DEGREES.** The univ. may confer any degree as an hon. degree.

**DIPLOMAS.** Educat. (1 yr.), open to grads. Pub. health (1 yr.), open to med. grads. Soc. studies pt. I (2 yrs.), open to grads. and suitable non-grads.; pt. II (sp. studies) after addnl. yr. The King Edward VII Coll. of Med., until its incorporation in the Univ. of Malaya in 1949, granted a licentiate in med. and surg. (LMS) and a licentiate in dent. surg. (LDS), Raffles Coll. granted a dipl. in arts (DipArts) and in sci. (DipSc).

**RESEARCH.** Ample facilities for res. in most depts.

**STUDY LEAVE.** Permanent staff eligible for study or alternatively sabbatical leave on full salary at the rate of 5 wks. for each yr.'s service. New scheme provides for overseas or study leave of about 6 mos. after 3 yrs.

**FEES.** Tuition, including students' union, BA, LLB and BSc courses, also dipl. courses in educn. and soc. studies, approx. £56 : 5s. p. a.; MB BS, BDS and BPharm, also dipl. course in pub. health, £66 : 15s. p. a. Higher degrees, fees, £17 : 10s.—£35 p. a. depending on degree; exam. fees, MA, MSc, MRd, £17 : 10s.; Ph.D., £23 : 5s.; DLitt, DSc, MD, MS, MDS, £15.

**ACADEMIC YEAR.** May–April: 3 terms; May–July; Aug.–Oct.; Nov.–Jan.

**ADULT EDUCATION.** An active interest is taken in the adult educn. movement in Singapore, members of the univ. staff assisting in the teaching work. In conjunction with the govt. dept. of broadcasting, radio courses have been conducted from time to time.

**SCHOLARSHIPS, BURSARIES, ETC.** The univ. offers annually a number of entrance scholcs. on the results of the univ. entrance exam. The govt. of Singapore and the Fed. of Malaya offer bursaries to suitable candidates requiring financial aid.

**APPOINTMENTS BOARD.** A register of prospective candidates is kept and vacancies are communicated by circular.

**GRADUATES' ASSOCIATION.** The Univ. of Singapore society has now replaced the Stamford

club and the King Edward VII alumni assocn. All grads. of the former colls., the former Univ of Malaya and the Univ of Singapore may be admitted to the new soc

**STUDENT RESIDENCES.** Men: Dunsen Rd, King Edward VII Hall, Raffles Hall, Kandang Kerbau Clinical Residence. Women: Yusoff College.

**STAFF RESIDENCES.** At present approx 165 units of housing for academic staff

**STUDENT HEALTH SERVICE** under a full-time

med officer. Med. exam. compulsory for 1st-yr students and optional for others. Two dispensaries available for routine treatment

**STUDENTS' UNION** The students' union is administered by a students' council consisting of 25 to 30 students elected annually. The students' council appoints an executive ctee and certain other standing and sp ctees. There are socs. to cater for the social, athletic and other activities of students

**PUBLICATIONS** *Calendar* (May)

### THE YEAR 1961

**RETIREMENTS** Dr T Balasingam (pathol.).

**RESIGNATIONS** Dr C Gamba (econ.).

**DEATHS.** Prof J. J Hartland-Swann (philos.).

#### Statistics

##### STUDENT NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1347	35
Women . . .	416	4
Total . . .	1763	39

Distribution by Faculties, etc *Arts*, 359, *dent.*, 128, *educn*, 63, *law*, 295, *med.*, 561, *pharm.*, 82, *sci*, 273 Total - 1763.

*Included in the figures above are —*

Postgraduate students, 107.

New admissions, 417

Students from other countries, 14

**DIPLOMAS AWARDED (1960-61).** MD, 3; PhD, 1; MA, 2; MDS, 1; MSc, 6; BA hon., 84; BA, 50; LLB, 22; BSc hon., 36; BSc, 12; MB BS, 81; BDS, 12; BPharm, 6; BPharm hon., 1.

**DIPLOMAS AWARDED (1960-61)** *Educn.*, 70; *pharm*, 4, *pub health*, 9, *soc. studies*, 15





# UNITED KINGDOM

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| 1 University of Birmingham (p. 911)                | 18 University of Southampton (p. 1297)   |
| 2 University of Bristol (p. 929)                   | 19 University of Sussex (p. 1304)  |
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| 5 University of East Anglia (p. 1005)              | 21c University College of South Wales<br>and Monmouthshire, Cardiff (p.<br>1322) |
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| 8 University of Keele (p. 1020)                    | 22 St. David's College, Lampeter (p. 1337)                                       |
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| 13 University of Manchester (p. 1204)              | 27 University of St. Andrews (p. 1390)   |
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*The places named in black type are the seats of the university institutions numbered overleaf*

## THE UNIVERSITIES OF THE UNITED KINGDOM

[Contributed by Sir James Mountford, Vice-Chancellor of the University of Liverpool]

**HISTORICAL OUTLINE.** Diversity, rather than conformity to a pattern, is the key to an understanding of the universities of the United Kingdom. All are dedicated to the preservation and advancement of knowledge, to teaching and research, and to education for the learned professions, but in pursuit of these common purposes they exhibit great variety in their general organization, internal government, range and balance of studies, methods of instruction, and student life. The reason for this is not far to seek. The universities were founded at widely different dates, and have been influenced by and have responded in different ways to changing intellectual and social environments. Above all, they have always been autonomous bodies, evolving in their own ways, finding solutions wherever possible for their own problems, and remaining free from any attempt on the part of the state to impose uniformity on them or to subject them to a central control.

It is nevertheless possible and convenient to treat the universities as belonging to one or other of five main groups, the members of each of which have a more or less close family resemblance. The first four of these groups are: the two old English universities of Oxford and Cambridge; the four Scottish universities; the universities of London, Durham and Wales, all of which have federal constitutions; and the 'modern' or 'civil' universities which in the main were founded in the 19th century as university colleges and served a relatively long apprenticeship before being granted a charter and empowered to award their own degrees. The fifth group comprises the universities of Keele and Sussex and the six others which are now being founded; they are not only empowered from their inception to award their own degrees but present significantly new patterns in the curriculum of studies (see below, pp. 900, 902-903).

The universities of Oxford and Cambridge originated in guilds of teachers who settled in those towns in the second half of the 12th century. The early development of Oxford is closely connected with the expulsion in 1167 of foreign-born scholars from the University of Paris, while that of Cambridge is associated with a migration of scholars from Oxford in 1209. Quite early in the history of both universities, pious benefactors founded residential colleges for teachers and students; University, Balliol and Merton colleges in Oxford date from 1249-64, and Peterhouse in Cambridge from 1284. In succeeding centuries,

colleges have continued to be established right up to the present time (e.g. St. Antony's at Oxford in 1929 and Churchill College at Cambridge in 1960). There are now at Oxford 26 colleges and 5 other recognized 'halls' for men and 5 colleges for women; at Cambridge there are 18 colleges and one other recognized 'house' for men, and for women there are 2 colleges and a recognized 'hall' (including New Hall founded in 1954). Most of the colleges have 350 undergraduates or less; but a few, such as Christ Church at Oxford and Trinity at Cambridge, are very considerably larger. This collegiate system has long been the outstanding characteristic of Oxford and Cambridge. Each college is a completely autonomous body so far as its property, finances and internal affairs are concerned. The university has its own separate identity and its own constitution; and it would be quite misleading to think of it as a federation of colleges or as a body which, except within strict limits, has any control over the colleges. Although at Oxford and Cambridge it is the universities themselves which alone have the right to confer degrees and determine the conditions on which they grant them and which provide the central libraries and laboratories as well as much formal instruction, the vital focus of academic life is in the colleges: it is by being a member of a college that a student becomes a member of the university, for some part of his student career he resides in his college; he dines regularly in the college hall where the head of the college presides at the high table, though regular attendance is no longer compulsory; the college chapel fosters his religious observances; the college library provides a quiet haven where he can read seriously or browse at leisure; and his studies are to a great extent guided by the senior members (generally called 'fellows') of his own college who have rooms and (if unmarried) live within the college building. The feelings of loyalty and affection for his college engendered in the mind of the adolescent student continue throughout later life, and every few years a former student may be invited to return for a formal feast (a 'gaudy') at his college.

The history of these two universities and of the colleges is closely interwoven with the broad pattern of national development: at the Reformation, for example, they suffered confiscations of land and revenues; and in the 17th century Oxford so staunchly supported the king in the civil war that he made the town his headquarters. Through the centuries many of the leading figures in statesmanship, the law, the church and literature

as well as in scholarship, were trained in one or other of these two universities, and the portraits of notable men which adorn the dining-halls and common-rooms of the colleges of which they were once members are an epitome of the annals of the nation.

The medieval curriculum, based on the seven liberal arts (the *trivium*—grammar, logic and rhetoric—and the *quadrivium*—arithmetic, geometry, music and astronomy) with the addition of the higher 'faculties' of theology, law and medicine, persisted up to the time of the Reformation and beyond; indeed even as late as the second half of the 18th century much of the subject matter of instruction was still rigidly traditional; and formal and written examinations for degrees were not introduced (first in Cambridge) until 1772. In the 19th century, however, and particularly after 1850, widespread reforms were inaugurated as the vigour of the two universities asserted itself, religious tests for membership of the university were abolished (the last in 1871), modern subjects of study were encouraged and developed, and to the prestige deriving from antiquity of foundation there was added the intellectual and educational primacy which in many fields is accorded to Oxford and Cambridge. In the session 1960-61 there were 8975 full-time students at Oxford and 8950 at Cambridge.\*

Three of the Scottish universities trace their origins to the 15th century, St. Andrews being founded in 1411, Glasgow in 1451 and Aberdeen in 1494. The fourth, Edinburgh, was established by the town council in 1583. As now constituted, St. Andrews incorporates three and Aberdeen two other foundations (all dating from the 15th or 16th centuries) which were at one time independent; and Queen's College, Dundee, founded in 1881, is also part of the University of St. Andrews. To Glasgow the Royal College of Science and Technology has been affiliated since 1913, but in 1962 the University Grants Committee announced that they accepted the case for its being given full university status, though they deferred their final advice to the government until after the Robb committee (see p. 901) had reported.

Though it was John Balliol, father of a king of Scotland, who founded one of the oldest colleges in Oxford, the idea of colleges where senior and junior members live together communally did not take firm root north of the border; and apart from St. Andrews, where the newer type of halls of residence has been specially fostered within the last half-century, a long tradition within the Scottish universities has favoured the independence of the student in the matter of living accommodation. As in England the sons of Oxford and Cambridge have played a prominent part in the national life, so amongst those who have moulded the fortunes of the northern kingdom or who (north and south of the border) have brought lustre to the name of Scotland in public life and

in the learned professions, many have been alumni of the Scottish universities.

At this point of time it is hazardous to institute comparisons over the centuries, but it is clear that the Scottish universities in their teaching and curriculum freed themselves from the formalities of the medieval scheme of studies rather sooner than did Oxford and Cambridge, and though the level of attainment for degrees fluctuated considerably from time to time, at no period in Scotland does the social side of university life appear to have predominated over the intellectual as it did in the two English universities in the 17th and 18th centuries. In the session 1960-61 there were 2632 full-time students at St. Andrews (including 1230 at Dundee), 6223 at Glasgow (together with 1695 at the Royal College of Science and Technology), 2016 at Aberdeen and 5965 at Edinburgh.

The University of London, now the largest in the country with 21,595 full-time students in 1960-61, was not established until the 19th century. It was in 1826 that, in part as a protest against the denominational tests still imposed at that time for entry to Oxford and Cambridge, what is now known as University College, London, was founded; and as a counter-protest King's College, London, came into being in 1829. The University of London itself was constituted by royal charter in 1836 as a body empowered to examine and confer degrees on students of approved institutions, and until 1900 its work was restricted to these functions in the exercise of which, however, it influenced and co-ordinated the work of the various other colleges of university rank which were founded from time to time in London (e.g. Bedford College for Women in 1849). From 1858 its degrees, except in medicine, were made available for students other than those in certain recognized institutions; and the external degrees of the university which were then instituted still continue to provide both at home and overseas an academic award of high standing for part-time students and others who are not enrolled in a university. London, too, in 1878 was the first university in the United Kingdom to admit women to its degrees. From 1945 it has had special relationships with the new university colleges founded in colonial territories under the auspices of the Inter-University Council (see pp. 901-902 and 1074).

In 1900 and again in 1926 the university's constitution and powers were revised and it is now not only a teaching as well as an examining body, but has become a federation in which are incorporated 13 medical schools associated with hospitals, 14 non-medical colleges (called schools of the university, and including e.g. University College and King's College), together with a number of postgraduate and other institutions. Some other centres of higher education in London are also affiliated to the university, and in still others

\* See footnote to p. 893

certain members of staff are recognized as teachers of the university. The six largest schools of the university are University College (with 2079 full-time students in 1960-61), Imperial College of Science and Technology (2682), King's College (2174), London School of Economics (2170), Queen Mary College (1288) and Guy's Hospital Medical School (1047).

The University of Durham was founded in 1832 largely on the initiative of the cathedral authorities. The College of Medicine in Newcastle upon Tyne, established in 1834, was linked with the university in 1832 and in 1871 the College of Physical Science (later Armstrong College) in Newcastle was founded as part of the university. The university is at present organized on a federal basis in two divisions, one consisting of the Durham branch and the other of the College of Medicine and Armstrong College in Newcastle amalgamated under the name of King's College. There are, however, proposals afoot that the Newcastle division should become an independent university; and it is anticipated that the new arrangement will come into force in August 1967. From its inception the university in the city of Durham was influenced by the collegiate pattern of Oxford and Cambridge, and eight of its halls of residence, in which over 65 per cent. of its students live, have the status of colleges of the university, the oldest dating from 1833. In 1960-61 there were 1461 full-time students in Durham itself, and 3733 in King's College, Newcastle. With the university there are affiliated Coddington College, Barbados, West Indies, and Founshay Bay College, Freetown, Sierra Leone, West Africa.

Like London and Durham, the University of Wales is federal. It was in 1872 that a university college was founded in Aberystwyth as the result of a movement for higher education supported, often from the most meagre resources, by all sections of the population of the principality. In 1883 a second college was established in Cardiff and a third in Bangor in 1884. The University of Wales was founded in 1893 with Aberystwyth, Cardiff and Bangor as its constituent colleges; a fourth college was established at Swansea in 1900; and in 1931 the Welsh National School of Medicine, originally an offshoot of the Cardiff college, was given the status of a school of the university. In 1960-61 there were 6431 full-time students in the university as a whole, Cardiff having 2002, Aberystwyth 1577, Swansea 1418, Bangor 1275 and the School of Medicine 159.

Even older than any of the colleges of the university of Wales is St. David's College at Lampeter in Wales which was established in 1822. Its royal charter empowers it to confer bachelor's degrees in arts (BA) and theology (BD and LTh). It is entirely residential and in 1960-61 had 199 students. Its recognition by the University Grants Committee for the purpose of grant dates only from 1961 when an agreement was reached

whereby the University College of Cardiff assumed (for a period envisaged as ten years) sponsorship for the academic standard of the St. David's degree of BA.

The 'modern' or 'civic' universities of England, which collectively had 37,600 full-time students in 1960-61, gained their full status only in the present century. Their rise and development has profoundly modified the whole pattern of university education in England.

They mostly had their origin in the university colleges which, under various designations, were established in large centres of population in the second half of the 19th century. These colleges themselves were in many instances the inheritors and successors of more loosely organized literary, scientific and cultural societies, many of which had been influenced by the extension courses and lectures provided by Oxford and Cambridge. The primary purpose underlying the establishment of these colleges was to provide centres of higher learning at a university level for the young people of the area in which they were founded. By their very nature they were not conceived as being residential on the Oxford and Cambridge pattern; the idea of halls of residence took root slowly; and though the universities which have emerged from them now draw their students from all parts of the country, few provide accommodation for more than 25 per cent. of their undergraduates. In some places the driving force which led to their foundation was an individual benefactor, in others the local community as a whole was inspired to provide itself with a college. The earliest of these newer institutions was Owen's College in Manchester (1851), followed by the Yorkshire College of Science in Leeds (1874), University College, Bristol (1876), Firth College, Sheffield (1879), Mason Science College in Birmingham (1880), University College, Liverpool (1881), University College, Nottingham (1881), Reading University College (1892) and Exeter University Extension College (1894). Within the 20th century Hartley University College was founded in Southampton (1902), a University College in Leicester (1918) and a University College in Hull (1927). Where there was also a local school of medicine, it generally became closely linked with the university college and so formed the nucleus of a future faculty of medicine.

Until they attained the status of full universities, these colleges prepared their students for the external degrees of the University of London. The first move was in the direction of federation. By a charter of 1880 the Victoria University was founded with a federal constitution and Owen's College, Manchester, was made the first constituent college, to be joined subsequently by University College, Liverpool (1884), and the Yorkshire College, Leeds (1887). In 1900, however, Mason College in Birmingham obtained its own charter as a university, and any trend towards federation was abruptly halted. Liverpool obtained its own charter in 1903, and Leeds in 1904,

leaving the title of Victoria University in the sole possession of Manchester. Sheffield was granted a charter in 1905 and Bristol in 1909. The other university colleges had longer to wait, and apart from Reading, which obtained full status in 1926, no other university colleges were elevated to full university status until after the end of the second world war. There then followed in quick succession Nottingham (1948), Southampton (1952), Hull (1954), Exeter (1955) and Leicester (1957). In 1960-61 Manchester had 4944 full-time students, together with 1956 in the affiliated Manchester College of Science and Technology, Leeds had 4860, Birmingham 4457, Liverpool 4113 and Bristol 3366, Sheffield had 3009 and Nottingham 2506; Hull, Southampton and Reading had 1660, 1654 and 1257 respectively; Exeter reached 1410 and Leicester 1374.

With the civic universities we can include the Queen's University of Belfast. It was founded by royal charter as Queen's College in 1845, and, together with colleges in Cork and Galway, became part of a federal Queen's University in 1850. In 1880 the title of the university was changed to the Royal University of Ireland; and in 1908 a fundamental reorganization led to the establishment in what is now Eire of a National University of Ireland consisting of University College, Dublin, and the colleges in Cork and Galway, and to the conferring of full and separate university status on the college in Belfast under its present title. The income of the Queen's University is now largely derived from the government of Northern Ireland, which since 1945 has relied on the advice given by the University Grants Committee. The number of full-time students in the university in 1960-61 was 3295. (For the University of Dublin (Trinity College) see Appendix 1.)

The University College of North Staffordshire (now the University of Keele) was founded in 1949 at Keele Hall near Newcastle-under-Lyme, largely on the initiative of the late Lord Lindsay of Birker, master of Balliol College. It is exceptional in several respects: the broad aim of its curriculum is to provide an integrated course of study in the humanities, the social sciences and the natural sciences, even before it gained full university status (in 1962) it was nevertheless empowered to confer the degree of BA, and major academic matters were controlled by a board, the majority of whose members were representatives of the universities of Oxford, Manchester and Birmingham. It is a self-contained and almost entirely residential academic community and in 1960-61 had 769 students.

The youngest member for the time being of the university family is the University of Sussex at Brighton which was formally constituted as a university college in 1959 and was accorded full university status by royal charter in 1961. It owes its origin to a scheme formulated locally, in support of which the University Grants Committee agreed to make grants for capital expenditure and maintenance. Sufficient progress was

made with the recruitment of staff for a small number of students in arts to be admitted in October 1961 and a full entry of 300-400 in arts and science in October 1962. To begin with, students will be accommodated in lodgings in Brighton itself. The new university will grant its own degrees of BA and BSc and standards will be guaranteed by an academic advisory committee of five or six outside persons of recognized standing. A distinctive feature of the curriculum in arts will be the grouping of subjects under the headings: English studies, European studies and social studies.

Approval has also been given for the foundation of six other universities; but it is convenient to make fuller mention of these in connexion with the problems of expansion (see pp. 900-901).

It was only belatedly that women achieved full status within the universities. Although Bedford College for Women was established in London in 1849, it was not until 1878 that the University of London led the way for other universities by admitting women to degrees. At Oxford, Lady Margaret Hall was founded in 1878, Somerville in 1879, St Hugh's in 1886, St Hilda's in 1893 and St Anne's (formerly the Society of Oxford Home-Students, established in 1879) in 1952. Of the Cambridge colleges, Girton originated at Hitchin in 1869 and was removed to the near neighbourhood of Cambridge in 1873. Newnham was founded in 1871. Oxford admitted women to examinations in 1884, to degrees and full membership in 1920 and to university teaching posts in 1927. Cambridge admitted women informally to tripos examinations in 1872 and to 'titles of degrees' in 1923, in 1926 women were declared eligible for university teaching posts and therefore for membership of boards of faculties, but not until 1948 were they admitted to actual degrees and full membership of the university. Women have been admitted to the universities of Scotland since 1892, to Durham since 1896 and to all the modern civic universities from their foundation.

**UNIVERSITY CONSTITUTIONS.** All the universities of the United Kingdom exercise their rights and functions in virtue of royal charters, which in the case of the older English and Scottish universities superseded the earlier papal bulls which authorized their foundation. Supplementary to the charter of each university, and in conformity with it, are statutes (in Scotland, ordinances) which are approved by the sovereign in council. A charter defines the powers, privileges and constitution of the university in broad general outline; the statutes, which within the framework of the charter can be amended on the initiative of the university subject to the approval of the privy council, provide for the more important and permanent constitutional details which need to be clearly set forth. Subsidiary to the charter and statutes, there are ordinances, decrees, graces and regulations which the university itself finds it convenient to promulgate from time to time for

the orderly conduct of its affairs; and it is under these headings that, for example, the particular requirements for entrance and for the award of degrees are laid down.

Each university has as its official head a chancellor, a person distinguished in rank, in public service or in scholarship, who is elected for life by one of the statutory bodies of the university. Though the office is in the main honorific, the chancellor normally presides at the largely formal meetings of the supreme governing body of the university and at congregations where he confers degrees. Many universities provide for a limited period of one or more pro-chancellors for the absence of the chancellor, though in the case of the latter, except in the matter of conferring degrees, which then becomes a function of the vice-chancellor. In the four Scottish universities, in addition to the chancellor, there is also a rector elected for a period of three years by the matriculated students for the time being; he may be a person of great distinction, a popular figure, or a transient notoriety; he is *ex-officio* president of the university court, though in most instances he does not exercise this right; he also appoints to the court an assessor who may in fact act for a succession of rectors. In most universities the chief academic and administrative officer is the vice-chancellor, who holds a permanent appointment (except in Oxford, Cambridge, London, Durham and Wales, where the tenure is for two or three years); in Scotland the official title is principal, though the holder of the office is usually nominated as vice-chancellor by the chancellor; in London there is also a permanent officer with the title of principal who shares administrative and academic duties with the vice-chancellor. The chief executive functions are in the hands of the registrar or secretary, who prepares the official business for the university bodies, keeps the university records and ensures the carrying out of official enactments. At both Oxford and Cambridge there are two proctors (appointed annually from amongst the fellows of colleges) whose primary function is the control of undergraduate discipline but who are also *ex-officio* members of certain university bodies.

In the universities of England (apart from Oxford and Cambridge), Wales and at the Queen's University of Belfast there also exists by charter the office of 'visitor' which (except at Durham) is held by H.M. the Queen in Council. The visitor has the right to direct an inspection of the university and its work; but only in the most extreme circumstances would this right be exercised. At Durham, as at many of the individual colleges of Oxford and Cambridge, the office is held *ex-officio* by a lord bishop.

The academic side of university government is based on faculties each of which is concerned with the affairs of a group of related studies, and for the minor details a faculty is often advised by boards of studies. The number of faculties varies from one university to another, as to some extent does the grouping of subjects within faculties of

the same name in different universities. The work of the faculties is co-ordinated and approval given to their recommendations by some higher academic body, which in the majority of universities is called the 'senate'. The conduct of financial affairs is very generally entrusted by charter or statute to a university body for which the commonest name is the 'council'. Ultimate authority within the university is, in most instances, vested in a supreme governing body for which 'court' is the most usual name.

When we turn to the individual universities or groups of universities we find not only that there are many confusing divergences of nomenclature but that within the broad pattern outlined above the precise distribution of function as between the various bodies is far from being identical. Furthermore, very important distinctions can be drawn according to the size and composition of the university bodies and the powers and influence within the university constitution which is exercised by the academic staff, by the graduates of the university or by lay members nominated and appointed from outside the university.

At Oxford and Cambridge the government of the university is entirely in the hands of members of the university and there is no representation of any outside authority on any of the statutory bodies. At Oxford the chief legislative functions are in the control of the 'congregation', a very large body comprising the resident teachers and administrators in the university; every measure submitted to it, however, has to be initiated by the 'hebdomal council', a smaller body of between twenty and thirty members elected from within the university, which digests the great volume of business coming from the general board of the faculties. Financial administration, though not financial policy, is entrusted to the 'curators of the chest', an elected body of twelve academic persons, who must be consulted by the hebdomal council when finance is involved in its proposals. When a statute is passed by congregation by less than a two-thirds majority it must be submitted to 'convocation', a body to which belong masters of arts and holders of higher degrees who have kept their names on their college books and paid their dues. Convocation, however, has only a suspensory veto and that for a limited time. Its other functions are to elect the chancellor and to approve honorary and official degrees. In view of the fact that most of its members reside far from Oxford, it is only rarely and only on the most controversial of issues that more than a fraction of its members assemble.

At Cambridge the pattern is very similar to that at Oxford. The chief legislative body is called 'regent house', to which belong the teachers and administrators resident in the university. The much smaller initiating and executive body which sits the proposals of the general board of the faculties is called the 'council of the senate', it consists of the chancellor and vice-chancellor together with sixteen resident graduates elected by regent house. Corresponding to convocation



at Oxford there is the senate, consisting of bachelors of divinity, masters of arts and doctors; apart from some formal duties, it elects the chancellor and is a court of appeal in certain cases from decisions of regent house. Financial affairs are in the hands of a financial board comprised of a small number of academic persons elected or appointed by the other university bodies.

In quite sharp contrast to the self-contained form of university government at Oxford and Cambridge are the constitutions of the modern 'civic' universities. At Oxford and Cambridge the government of the university has in essence evolved from the closed corporations or guilds of teachers and students. In the modern universities the pattern was determined by other considerations, not the least of which was the large spread of interested bodies which were concerned in their foundation and development. Here the three major bodies are the court, the council and the senate. The court is the supreme governing authority; it is a large body, in some cases between 300 and 400 in number, containing not only the professors and representatives of the graduates of the university and heads of schools, but persons nominated by other universities, by local authorities and educational organizations within the university area, by religious denominations and by learned societies. It meets annually to receive the financial accounts and other reports on the work of the university and to appoint certain university officers; it may also meet specially for other purposes; and in most cases it is the body which elects the chancellor, and in a few cases appoints the vice-chancellor. The council, generally containing between 30 and 40 persons, is the body which administers the finances of the university; it confirms the recommendations of senate for academic appointments, usually but not invariably its formal approval is necessary for academic regulations proposed by senate, and in most universities, generally in consultation with the senate, it appoints the vice-chancellor. The largest single element in its composition consists of members appointed by the court; a restricted number is nominated by senate or faculties from amongst the professoriate and other teaching staff, and some are nominated by local authorities; the chancellor and vice-chancellor are *ex-officio* members. The council is thus not a predominantly academic body, though some or many of its key members may in fact be graduates of a university. Though it has wide powers which could be used to thwart the considered advice and recommendations of the senate, it refrains in practice from interfering in matters of purely academic policy, and in academic appointments; and it is generally agreed that the worldly wisdom and experience of affairs collectively possessed by the council has in many ways brought very considerable advantages to the newer universities. The senate, of which the vice-chancellor is *ex-officio* chairman, is, subject to such supervisory or confirmatory powers as the council possesses, the chief academic body; it approves and

co-ordinates the work of the faculties, makes recommendations for the filling of professorships and other academic posts, and is responsible for the teaching and discipline of the undergraduates. Its membership consists of the professors of the university with the addition in most cases of a limited number of representatives of the other teaching staff, who apart from their wide representation on faculties and boards of studies do not have a share in the university government comparable to that afforded by the congregation at Oxford or regent house at Cambridge. The graduates of a modern university are members of a statutory body generally called convocation which meets annually and may discuss and express an opinion on any matter concerning the university but has no powers corresponding to those of the convocation at Oxford or the senate at Cambridge.

The government of the Scottish universities is defined by the Universities (Scotland) Acts of 1858 and 1880, modified in the case of St. Andrews by an act of 1953. The supreme governing body is the court, which, unlike the body of the same name in England, is a small but powerful one consisting of the rector, the principal, the lord provost of the city, three members nominated by the chancellor, the rector and the lord provost, four members elected by the academic senate and four by the general council; it administers the property and finances of the university, makes academic appointments, and can review any decision of senate against which there is an appeal. In St. Andrews the court is of the same general pattern but consists of 21 persons. The '*senatus academicus*', which has responsibility for instruction and discipline, and has the sole power of granting degrees, consists of the professors of the university together with a limited number of other members of the teaching staff; its *ex-officio* chairman is the principal, who is appointed by the crown except at Edinburgh, where his appointment (like that of a small number of professors) is in the hands of a special body of curators of patronage. The general council, which consists of the chancellor, the members of the court, the professors, the graduates, and renders and lectures of one year's standing, meets twice annually and may make representations to the court on any matter affecting the university; it elects the chancellor and appoints its own four representatives to the court.

The underlying principle of the constitution of the federal universities of London, Durham and Wales is that in academic and financial matters which concern the whole university the central authority has control, leaving the constituent colleges and institutions to manage all other matters for themselves. In London the court, which has 17 members including representatives of the senate, persons appointed by the crown and persons nominated by the London County Council, controls the finances; it is the body which applies to the University Grants Committee, local authorities and other public bodies for grants and distributes them to the constituent schools and

institutes of the university. The senate is the supreme governing and executive body in academic matters, and appoints, in consultation with the school concerned, the professors, readers and all but the more junior members of the teaching staff. Its fifty or so members include representatives of the constituent schools, of the faculties and of the graduates, amongst its important standing committees are the academics council and the collegiate council. Convocation, which consists of the graduates who have paid a prescribed fee, elects 17 members to the senate, and may discuss and express its opinion on any university matters; it is a point of significance that its elected chairman is *ex officio* a member of the court and of the senate. Each of the constituent schools of the university has its own internal form of government, consisting in general of a governing body with lay representation, an academic board composed from members of the teaching staff and a finance committee.

The governing bodies of the University of Durham are a court of about 30 members, the senate, boards of faculties and convocation, all of which have functions closely similar to the corresponding bodies in London. In the composition of these bodies the two divisions of the university at Durham and Newcastle (as at present constituted) have appropriate representation and the court contains a number of lay members. The warden of the Durham Colleges and the rector of King's College, Newcastle, alternately act for periods of two years each as vice-chancellor. For its internal affairs each division is governed by a council and an academic board.

The University of Wales is governed centrally by a large court of over 250 members, including representatives of local authorities and public bodies in Wales and of the graduates of the university. Its finances are controlled by a council of about 20 members, on which in addition to the vice-chancellor and heads of the constituent colleges there are members appointed by the court and by local authorities. Academic matters are in the hands of an academic board consisting of representatives of the faculties in the constituent colleges. The guild of graduates is constituted similarly to the convocation of the modern universities, and has the same right of expressing its opinion on university matters. Each of the constituent colleges has its own board of governors, council and senate for the conduct of its internal affairs. The principals of the four constituent university colleges act in rotation as vice-chancellor, each for a period of two years.

**RELATIONSHIP TO GOVERNMENT.** The universities of the United Kingdom are independent self-governing bodies which do not come within the jurisdiction or control of any ministry. It is from royal charters that they derive their rights and privileges, and any amendment of their charters or statutes is made by the crown acting through the privy council on the application of the universities themselves. It is true that, from time

to time, royal commissions have been appointed and acts of parliament passed to deal with situations which the universities themselves for one reason or another were unable to resolve: such, for example, are the Oxford and Cambridge University Acts of 1854, 1856 and 1877, the Durham University Acts of 1861 and 1935, the London University Acts of 1898 and 1926 and the St. Andrews University Act of 1953; but the initiative in setting these exceptional procedures in motion has generally come from within the universities themselves and they have always been adopted with the co-operation or at least the concurrence of the universities concerned. Furthermore, whatever changes may thereby have been effected in the constitution or structure of a single university, the essential autonomy of universities both individually and collectively has invariably been preserved: they alone decide what degrees they shall award and the conditions on which they shall grant them; they alone decide what students they shall admit and what professors and other academic staff they shall appoint; they can hold property and they have unfettered discretion in the use of their own funds.

This freedom of the universities from any form of governmental direction is all the more noteworthy when viewed against the background of financial assistance which is now given to universities by the Treasury. Until the end of the first world war, such grants as were made to universities from governmental sources were sporadic and inconsiderable in amount. Universities relied for most of their income on endowments and private donations, on the fees paid by their students, and in many cases on grants from local authorities. In July 1919, however, when the financial stability of universities was causing great anxiety, the Treasury established a standing committee with the title of 'The University Grants Committee' which had the following terms of reference: 'To enquire into the financial needs of university education in the United Kingdom, and to advise the government as to the application of any grants that may be made by parliament towards meeting them'. For the session 1919-20 the total of the grants made available to the new committee for distribution to the universities and the independent university colleges was £215,000; by 1929-30 the sum had risen to £1,800,000; and it increased slowly to £2,224,000 in 1939-40, by which time it represented just over one-third of the entire income of the universities. During the second world war, when the contribution of the universities to the national effort, especially on the scientific side, was of paramount importance, the maintenance of the annual Treasury grant at much the same level saved the universities from undue worry about their finances.

By 1945 it had become clear that there would be in the future a greater demand and a greater need than ever before for university education; and that consequently not only must the subvention provided by the state be increased but also the

nature of the partnership which, for a quarter of a century, had been developing between the universities and the University Grants Committee should be made more explicit. In 1946, therefore, the terms of reference of the University Grants Committee were significantly revised, and with the further amendments approved in 1952 they now read as follows. 'To enquire into the financial needs of university education in Great Britain, to advise the government as to the application of any grants made by parliament towards meeting them; to collect, examine, and make available information relating to university education throughout the United Kingdom; and to assist, in consultation with the universities and other bodies concerned, the preparation and execution of such plans for the development of the universities as may from time to time be required in order to ensure that they are fully adequate to national needs'. The declared function of the University Grants Committee is no longer formally restricted to the distribution of grants; and the co-ordinated development of the universities in the post-war years has been firmly founded on the information and advice which the committee has placed at the disposal of the universities and on the continuous consultations which have taken place on matters of broad policy no less than on details of planning. The extent to which parliamentary grants made available to the committee and so to the universities have increased in the post-war period is indicated by the following figures. Apart from grants for buildings and equipment, the amount given towards recurrent expenditure for the five-year period 1947-52 was £54,630,000; for 1952-57 it was £120,000,000; in March 1957 the chancellor of the exchequer announced that the grants for 1957-62 would be £173,500,000, rising from £130,600,000 in 1957-58 to £30,500,000 in 1961-62, further supplementary grants were subsequently added; and in the spring of 1962 it was announced that the grants for 1962-67 would be £320,000,000, rising from £26,000,000 in 1962-63 to £76,500,000 in 1966-67. The recurrent Treasury grant in the session 1947-48 represented 35.8 per cent. of the total income of universities, in 1960-61 it accounted for 70.5 per cent.

There are three reasons why this vast increase in the actual sums given to universities and the striking change in the proportion such sums bear to total income have not brought with them any diminution in the autonomy of the universities. In the first place, informed public opinion is convinced that universities could not do their work effectively if there were any encroachment on their freedom; secondly, there is a firmly established feeling of confidence between the universities and the government; and thirdly, the wisdom and impartiality of the University Grants Committee itself and the effectiveness of the committee's procedures in relation both to the Treasury and the universities have provided a practical solution

for a situation which could have raised problems of great magnitude.

The University Grants Committee (abbreviated as U.G.C.) as now constituted has two full-time officers, a chairman (Sir Keith Murray, KCB, BSc PhD MA BLitt\*) and a secretary (Sir Cecil Sykes, KCMG, CVO, MA), who are assisted by a small number of permanent officials. In addition to the chairman there are sixteen members of the committee who are appointed by the chancellor of the exchequer after consultation with the minister of education and the secretary of state for Scotland, are part-time and unpaid, and individually serve for a term of years only. Rather more than half of these members are university professors or other persons of high academic distinction and sound judgment who have an intimate knowledge of universities; and though they are appointed as individuals and not as representatives of particular universities or of particular fields of study, they are so selected that collectively they can assess academic needs of all kinds. The other members of the committee include a headmaster or headmistress, a local authority director of education and prominent leaders of commerce and industry. Generally at least one member of the committee is a woman. Since 1956 two eminent non-academic persons have been appointed to sit as members of the committee when academic salaries are being considered. The main committee appoints sub-committees consisting of a nucleus of its own members who sit with the appropriate experts to advise it on particular topics. There are standing sub-committees on medicine, dentistry, technology, agriculture and veterinary science. From time to time special sub-committees on particular topics are set up, e.g. halls of residence, university teaching methods. The offices of the committee are at 38 Belgrave Square, S.W.1 (tel.: Belgravia 4801). The committee publishes annually a statistical abstract entitled *Returns from Universities and University Colleges*, which contains a report on the activities of the committee during the previous year and deals with the various categories of students, the degrees and diplomas awarded and the staffing and finances of the individual universities. After the end of each quinquennium the committee also publishes a lengthy report entitled *University Development* which is much less statistical than the annual returns but provides an invaluable survey of the whole field of university affairs; it is here that one gets the clearest picture of the broad lines of progress, of the needs that are emerging and of the problems that still await solution.

The recurrent grants made through the University Grants Committee are based on a five-year period. A year or so before the beginning of each quinquennium members of the committee and of some of the sub-committees visit each university institution to gain by personal contact with the governing body, the professors, the non-professional staff and the students an insight into the

\* who from Oct. 2, 1963, will be succeeded by Sir John Wolfenden, at present vice-chancellor, University of Reading.

working of the university, its achievements, its needs and its programme for development. So far from being inquisitorial, these visits are a fruitful source of mutual understanding. By a fixed date each university subsequently submits to the committee a detailed estimate of its income and expenditure for the ensuing quinquennium, and on the basis of these estimates the committee makes its own consolidated recommendation to the Treasury. When the chancellor of the exchequer has announced to parliament the amounts he proposes to include in the annual Treasury estimates for the next five years, the committee makes an allocation to each university in England, Scotland and Wales. In the case of Oxford and Cambridge the colleges do not participate in the allocation, which is made for university purposes only; in London, Durham and Wales the central university authorities distribute the allocation made to the university amongst the constituent colleges and institutions.

It is at this point that the freedom of the universities is made particularly manifest. The assistance provided is given as a block grant for each of the five years and is not divided under sub-headings; and apart from an understanding that academic salaries shall be paid within agreed ranges, each university expends its grant alongside its other income in the way it thinks best. For their part, the universities are very conscious and jealous of the trust thus reposed in them, and no one of them would contemplate embarking on a major change of policy involving heavy future commitments without previous consultation with the committee. This quinquennial system of grants also affords a valuable element of flexibility in the conduct of university affairs, within reasonable limits a university can plan with some confidence for five years ahead and husband its resources accordingly.

Non-recurrent grants made by the Treasury towards the cost of new buildings and their equipment, the adaptation of older structures and the acquisition of sites, are assessed on an annual basis, though the total amounts to be made available for each year are announced well in advance so that planning can proceed in an orderly fashion. The proposals made by the universities for such capital expenditure are given an order of priority by the University Grants Committee and approved within the limits of available finance. Before final approval is given, the plans for each separate building are scrutinized and commented upon by the committee's own staff of experts and panel of advisers; from time to time also, on the basis of its accumulated experience, the committee indicates what standards of accommodation for various purposes it considers reasonable in normal circumstances. In the earlier post-war years, when the resources of the universities were at a low ebb, most of the non-recurrent grants covered the whole cost of a project. More recently, as universities have in varying degrees been able to secure funds for themselves by public appeals, they have found

it possible to contribute something towards the cost of new buildings from their own resources; but for the major part of such expenditure they have still to rely on Treasury aid.

Between 1947 and 1957 approximately £42,000,000 was expended by way of non-recurrent grants; for each of the calendar years 1958 and 1959 the sum of £12,000,000 was made available, and for 1960 and 1961 £15,000,000. Early in 1961 it was announced that £25,000,000 would be provided for each of the years 1962 and 1963, and that planning for 1964 and 1965 could proceed on the basis of £30,000,000 per annum.

**FINANCE.** In the session 1960-61, which is the latest year for which complete returns are available, the total income of the universities of Great Britain amounted to £68,706,388. The chief items within this sum were interest on endowments, £1,963,347 (2.9 per cent.), of which £1,139,019 was for particular purposes and £824,328 for general purposes, donations and subscriptions, £306,806 (0.7 per cent.), grants from local authorities, £1,577,564 (2.3 per cent.), Treasury recurrent grants, £48,390,076 (70.5 per cent.), grants from other government departments, £1,228,302 (1.7 per cent.), tuition, examination and other fees, £6,317,803 (9.2 per cent.) including £244,045 from the Ministry of Education for the fees of teachers in training, payments for research, £6,215,400 (9.1 per cent.), of which £3,212,605 came from government departments and £3,002,795 from other bodies; and various miscellaneous items, £2,498,200 (3.6 per cent.).

For the same session, 1960-61, the total expenditure of the universities, apart from £647,358 allocated to reserves, amounted to £67,822,988. The major items within this sum were: administration, £4,541,767 (6.7 per cent.); salaries and payments for superannuation of teaching staff, £29,013,872 (42.1 per cent.); departmental and laboratory maintenance, including wages of technical staff, £14,307,646 (21.1 per cent.); libraries and museums, £2,877,328 (4.2 per cent.); repairs and maintenance of buildings, £2,192,072 (3.2 per cent.); other maintenance costs including light and heating, £6,643,680 (9.8 per cent.); capital expenditure met from income, £553,467 (0.8 per cent.); general educational expenditure including examinations, publications and student amenities, £3,461,722 (5.1 per cent.); and miscellaneous items, £3,331,423 (4.9 per cent.). As from August 1962 universities will be reimbursed from special earmarked funds for their expenditure on local rates and taxes, amounting in 1960-61 to almost £1,500,000 (2.2 per cent.).

**PRE-UNIVERSITY EDUCATION.** All but a relatively small minority of the English and Welsh students who enter the universities have been educated up to the age of 18 or over in one or other of three types of grammar school. First there are the grammar schools maintained or assisted and controlled by local education authorities with the aid of grants from the Ministry of Education; pupils in these schools pay no fees

and with rare exceptions will have had their primary education up to the age of 11 or 12 in a school maintained by a local education authority; they account for about 78 per cent. of the whole grammar school population; and pupils from such schools account for about 60 per cent. of the university population. Secondly, there are direct grant schools which receive aid directly from the Ministry of Education and not through a local education authority; it is a condition for receiving a grant that at least one-quarter of the pupils shall have free education and that the fees payable by the remainder shall be related to parental income; these schools are controlled by a board of governors on which local education authorities must be represented; many, but not all, of the pupils will have previously attended a local education authority primary school up to the age of 11 or 12, which is the normal age for entry to direct grant schools; the pupils in these schools account for about 12.5 per cent. of the whole grammar school population, and pupils from such schools account for about 13.5 per cent. of the university population. Thirdly, there are the independent schools which receive no grant from the Ministry of Education or from local education authorities but depend on their endowments and fee income; the control of these schools is vested in a self-perpetuating governing body which in some instances may include a person nominated by the Ministry of Education; apart from the holders of scholarships awarded by the school, all pupils pay whatever fees may be fixed by the governing body; the age of entry to these schools is normally 13 and most of the pupils will previously have attended a fee-paying and privately owned preparatory school; the pupils in independent schools account for about 10 per cent. of the whole grammar school population; and pupils from such schools account for 18.5 per cent. of the university population.

Separate schools for boys and for girls is the predominant pattern of grammar school education, just over 30 per cent. of the local education authority schools, but less than 4 per cent. of direct grant and independent schools, are attended by both sexes. The local education authority grammar schools are almost exclusively for day pupils and the number of boarding places provided in such schools throughout the country is only about 1 per cent. The direct grant schools are also mainly for day pupils, but many of them have some boarding provision for pupils whose homes are outside the school area; all told, about 9 per cent. of the pupils at such schools are boarders. In the independent schools, on the other hand, 70 per cent. of the pupils are boarders. There is nothing to preclude the transfer of a pupil from one type of grammar school to another, but such transfers are not in fact common.

The frequently used term 'public school' is not current in the official documents of the Ministry of Education. It came into use in the early 18th century to describe those grammar schools of good standing, often originating in charitable

foundations for poor scholars, to which well-to-do parents were beginning to secure entrance for their sons as boarders in preference to having them educated by a tutor or in a small private school. The term is now popularly used, with social as well as educational connotations, mainly in reference to the independent boarding schools for boys; but a more precise and generally agreed description, which includes most direct grant schools, defines a public school as one which is represented on the Governing Bodies' Association or the Headmasters' Conference. There are in fact about 190 such schools and their eligibility for representation on the organizations just mentioned depends upon how free their governing bodies are from outside control, on the proportion of senior pupils in the school, and on the number of their former pupils who have gone on to universities. By analogy the term 'public school' is used, though much less frequently, in reference to girls' grammar schools of comparable standing.

The statutory age below which a pupil is not permitted to leave school is 15; but the full grammar school course extends to the age of 18 or a little over. The most important stage in the education of grammar school pupils is the Vith form, which is entered at about the age of 16 and extends over two or three years. It is here that pupils can begin to develop their own special interests, learn to some extent how to work by themselves, and prepare for entry to the universities or the professions. Generally the Vith form is organized in sections with distinctive titles, e.g. classica Vith, science Vith, modern Vith, according to the main emphasis of a particular field of study. Some form of daily religious observance is a feature of all grammar schools and some schools of all three categories are particularly associated with the Anglican, Methodist or Roman Catholic denominations. In day schools the activities of the day begin with a brief service of morning prayers conducted by the headmaster or headmistress in the school assembly hall; schools which provide for an appreciable number of boarders have their own chapel, sometimes a building of great beauty, where services are conducted by a chaplain who is generally a full member of the staff of the school.

Public education in Scotland, exclusive of the universities, is administered centrally by a government department, the Scottish Education Department, and locally by 35 education authorities. Many of the grammar schools in Scotland, though now often assisted from public funds, are old foundations endowed by benefactors by whose names they are still known (e.g. George Watson's College in Edinburgh); the newer ones, officially designated as senior secondary schools, have been established by the local authorities. Few of the older Scottish schools have developed a boarding side to any considerable extent. Some dozen or so schools (including several wholly for boarders and outside the official system) are represented on the Headmasters' Conference and are included in the list of public schools. Apart from the older

grammar schools in the large cities, most schools are co-educational.

In Northern Ireland school education is administered by the Ministry of Education for Northern Ireland and by local education authorities. An important feature of the educational system is the number of schools which are managed by religious denominations though generously assisted from public funds.

**ADMISSION.** In Appendix III a comprehensive and detailed account of university requirements for entry to first degree courses will be found; but something may here be said about the broad outlines. To qualify for admission to a university in order to read for a degree, a prospective student must have passed an examination or examinations which satisfy the minimum academic requirements for matriculation. Except for the Queen's University of Belfast, the universities do not hold a separate matriculation examination of their own, but rely upon the results of examinations conducted in England and Wales by nine examining bodies approved by the Ministry of Education for the General Certificate of Education (G.C.E.). At Oxford a specific matriculation examination called 'responsions' was held for the last time in 1960; and a similar one at Cambridge known as the 'previous examination' was discontinued in 1961. In Scotland the Scottish Education Department awards a Scottish Certificate of Education and in Northern Ireland the Ministry of Education awards a Senior Certificate, both of these are recognized by all universities as providing evidence which can be used for purposes of matriculation. It has to be noted, however, that the General Certificate of Education, the Scottish Certificate of Education and the Senior Certificate of Northern Ireland are intended to serve a variety of purposes, of which qualification for university entrance is only one; and it is only under specified conditions that these certificates are accepted by universities. Thus, the subjects for the General Certificate of Education are examined at three levels of attainment: the ordinary level, which is taken at about the age of 15 or 16, the advanced and scholarship levels, which are taken two or three years later; and in general the minimum entrance requirements for universities when based on the General Certificate of Education involve the passing of five or six subjects selected from a prescribed list, two at least of which must be passed at the advanced or scholarship level. Similarly there are special conditions under which the Scottish Certificate of Education and the Senior Certificate of Northern Ireland are accepted for university entrance.

In 1961 the Minister of Education accepted a recommendation of the Secondary School Examinations Council that from 1963 or 1965 at the latest the type of paper now set at scholarship level should be modified and the name changed to 'special'. The syllabuses of the advanced level papers are also being reconsidered. In 1962 the Committee of Vice-Chancellors and Principals

made public certain proposals which are still under discussion for a new pattern of entrance requirements designed to test not only a pupil's specialized interests but also the continuance of his general education throughout the Fifth form.

Although the minimum entrance requirements of all universities are very much the same in principle, there are many differences in detail as between universities. The Scottish Universities Entrance Board, however, defines requirements which are common to the four universities in Scotland and the Northern Universities Joint Matriculation Board (which is also an approved examining body) defines those which are common to Manchester, Liverpool, Leeds, Sheffield and Birmingham. A partially successful attempt was made in 1948 to ensure complete interavailability of minimum entrance requirements; but it cannot now be assumed that the requirements laid down by one university will automatically be accepted at other universities. While it is still true to say that in very many cases it will be found that the passing of examinations which satisfy the minimum of one university will also satisfy most other universities, it is quite essential to enquire directly from the particular university concerned whether its own minimum entrance requirements have in fact been satisfied.

The satisfying of minimum entrance requirements does not for any university carry with it the right of entry, it is a general academic prerequisite and no more. Whether a person who has satisfied these minimum requirements will be admitted depends upon a number of factors. In the first place some faculties and departments require that particular subjects shall have been included in the qualifying examinations and often that they shall have been passed at the advanced level, e.g. mathematics at the advanced level is required generally for degrees in science and engineering and Latin at the ordinary level is widely, though not universally, required for an arts degree, and these particular faculty or departmental requirements can only be ascertained with certainty by consulting the calendars and prospectuses of the individual universities. Secondly, a bare pass even at the advanced level may not be thought to justify admission if the subject concerned is intended to be one of the candidate's main fields of study, the achievement in the qualifying examination must show clear promise of success in the university course. Thirdly, even though a student may have satisfied the general university and the particular faculty and departmental requirements, and have reached a respectable standard in the crucial subjects, the limited number of places available may introduce an element of competition between candidates; indeed, special entrance examinations of a high standard are held by the majority of Oxford and Cambridge colleges and a few London ones to enable a selection to be made from amongst the applicants. Furthermore, consideration is always given to confidential reports from heads of schools; and personal interviews are very frequently arranged before a final

decision is taken about admission.

For certain courses of study for a first diploma or certificate in some universities it is not necessary to have satisfied the same kind of academic requirement as is demanded for courses leading to a first degree, this is particularly so in the case of those courses in subjects such as social science which are intended to be taken by rather older persons whose formal education has not followed the normal pattern or whose personal experience gives them special claims for admission.

To be accepted for postgraduate study and research leading to a higher degree, a candidate must in general possess a first degree which is relevant to his proposed field of study, though that degree need not in most cases have been taken in the same university. Whether an applicant is admitted to postgraduate study and research is a matter which in the first instance is within the control of the head of department concerned, but registration as a candidate for a higher degree has to be approved by the faculty or a special board of the university. The number of qualified applicants who can be accepted depends in departments of pure and applied science upon the accommodation available in research laboratories and in all departments on the number of members of staff who are free to supervise research.

Overseas students who wish to read for a first degree or a first diploma must submit evidence of academic attainments comparable to those demanded of British students and satisfy the university that their knowledge of English is adequate for the purposes of the course they wish to pursue; any documents they submit should be properly attested by a responsible educational authority in their own country. In the case of some countries, it is also advisable that applications should be submitted through the official representative in the United Kingdom of the country concerned. Each application is judged on its individual merits, but the number of vacancies is limited and, in general, overseas students are recommended wherever possible to take their first degree in their own country. Those who wish to pursue a course leading to a higher degree or diploma must submit evidence of their attainments to the satisfaction of the head of the department concerned and of the university.

In June 1963, after consideration of proposals made by an *ad hoc* sub-committee of the Committee of Vice-Chancellors and Principals, the universities decided that it had become necessary to establish a central organization to handle the increasing number of applications for admission. This organization, the Universities Central Council on Admissions (U.C.C.A.), of which J. S. Fulton, vice-chancellor of the University of Sussex, is chairman, has its offices at 29 Tavistock Square, W.C.1 (secretary, L. R. Kay, BA). A scheme of procedure has been evolved to deal with all applications submitted by United Kingdom candidates for admission to first degree and first diploma courses at all universities other than Oxford, Cambridge, Aberdeen, Glasgow,

St. Andrews, Belfast and the medical and dental schools of London. The principle underlying the scheme (of which details are given in Appendix III) is that, while the central office provides a machinery which, by collecting, collating and controlling the distribution and interchange of relevant information regarding applications, will minimize uncertainties, confusions and delays in reaching decisions, a wide choice of university is nevertheless still open to candidates and each university remains wholly unrestricted in its selection of students from amongst those who include it in their list of preferences. The 1962-63 session is being treated as a running-in period, and though all applications for admission in October 1963 to the participating universities will be made to the central office, it is only applications for courses in technology which will be handled by the office beyond the stage of distribution to the individual universities. The full scheme will come into operation for all applications made for entry in October 1964 and later years.

#### STRUCTURE OF DEGREE AND DIPLOMA COURSES.

In the interests of clarity it is essential to refer to the degrees awarded by United Kingdom universities as being either first degrees or higher degrees. In the actual nomenclature of degrees there is a very confusing diversity: for example, BA and BSc are the titles of first degrees in arts and science respectively in most universities, but at Oxford and Cambridge the BA is awarded to students of both arts and science, in Scotland the first arts degree is called MA; at Oxford the BSc is a higher degree; but at Cambridge the title BSc is not used at all, and at Oxford and Cambridge the MA is granted without any further course of study or examination to any BA of the university after a specified number of years and on payment of a fee. The courses of study for a first degree demand full-time attendance at the university except in the case of evening students at Birkbeck College of the University of London and candidates for the external degrees of London. The period of study for a first degree in arts and science is a minimum of three years and may be four; in other faculties and for some professional courses, such as architecture in the faculty of arts, the period is generally longer and in the case of medicine and dentistry may be as much as six years. Exemption from first-year lectures and examinations is sometimes available on the basis of passes at the advanced level of the General Certificate of Education, but no first degree is awarded until the completion of three years of university study. It is only very exceptionally that a student transfers from one university to another during his course of study for a first degree; the credit allowed to him for courses previously taken depends upon the regulations of the university to which he transfers and upon the individual case; and in no circumstances, not even if he already has a first degree of another university, can he graduate without at least two years' full-time attendance at the university to which he goes.

In the faculties of arts and science the curricula and the first degrees awarded are of two main kinds: those which involve the study of a number of subjects not all of which need be pursued for the whole three years and in none of which is very highly specialized work required; and those which concentrate on a single field of study and its immediate ancillaries. The first of these types of degree is designated as *pass* or *ordinary*, and success depends upon the passing of the various subjects separately at the appropriate standards, failure in a subject can be retrieved by re-examination or by the substitution of another approved subject. The second type is called *honours* and is further particularized by mention of the field of specialization, e.g. honours in classics, history, natural science, physics, etc., success depends upon the candidate's performance in a comprehensive final examination (known at Oxford as 'schools' and at Cambridge as the 'trips') which can be attempted on only one occasion, successful candidates are normally awarded their degree as class I, II or III, the second class often being divided into two sections, the unsuccessful are either awarded a *pass* degree or allowed some credit towards the requirements for such a degree. In some universities the two types of degree are known as *general* and *special* respectively, and it is there possible for distinction or honours to be awarded for exceptional merit in the examination for the general degree. Since the curricula for the two kinds of degree in arts or science diverge considerably, it is usual for a student to be admitted on an honours or special course immediately on entry to the university or possibly at the end of his first year. In other faculties the courses of study for the ordinary and honours degrees are not so distinctive in the earlier years at least, and in some instances, e.g. medicine, there is indeed a final examination common to all students on the results of which a candidate of unusual merit may be awarded his degree with honours.

The courses for first diplomas and certificates are relatively simple in structure. Usually there is a closely defined curriculum covering one or two years which is followed by all candidates for a given award, though exemptions may be granted from particular parts of the course on the basis of previous attainments or experience. Most courses demand full-time attendance but some, e.g. in public administration, are part-time and extend over a longer period.

Higher degrees can be divided into three categories: masterships, the doctorate in philosophy (PhD or DPhil), and the senior doctorates. Candidates for a master's degree (e.g. MA, MSc, etc., with which should be classed the BPhil and BLitt of some universities) are normally required to possess a first degree, though it need not have been gained in the same university. Work for the degree most generally involves full-time attendance at the university for two years, it may involve the taking of special courses of study and seminars; it almost always involves the writing under supervision of a thesis or dissertation on

some particular topic within the student's special field of interest; a written examination is sometimes required in lieu of or in addition to a dissertation; and an oral examination is rarely dispensed with. It is possible, however, in many universities for a mastership to be awarded on the basis of a thesis to a person who has taken a first degree at that university (but not elsewhere) without further full-time attendance. The degree of PhD, which is common to all faculties and for which a first degree (or an approved equivalent, e.g. a diploma in technology awarded by the National Council for Technological Awards) is a prerequisite, is awarded after two or, more frequently, three years' full-time work within the university; though attendance at seminars may be required, the main test is the writing of a thesis which makes an original contribution to knowledge; an oral examination is very commonly required. In many universities members of the teaching staff are eligible for the degree of PhD under special conditions. The senior doctorates, which are designated on a faculty basis (e.g. DLitt, DSc, MD, etc.) and for which the possession of at least a master's degree is a normal prerequisite, are awarded to more mature and established workers on the basis of published contributions to knowledge.

Higher diplomas, e.g. in various branches of technology, in public health, etc., may be awarded, according to the subject and the university, either on a full-time or less frequently on a part-time basis. The possession of a first degree or first diploma is the normal prerequisite, attendance at formal courses of instruction with the passing of a written examination is the basis of the award, and a dissertation is not required. A certificate or diploma in education is awarded after one year of full-time study to graduates who are training to become teachers.

Except at Oxford and Cambridge where the examining is mainly done by panels of teachers drawn from the various colleges, one or more external examiners for each subject are appointed from the staffs of other universities to take part in the assessment of the work of candidates for a first degree or first diploma. This system helps to ensure a uniformity of standards throughout the universities. For all higher degrees a small panel of two or three persons, one at least of whom is from another university, is appointed to adjudicate on the dissertation or published work and, when necessary, to conduct an oral examination.

Quite outside the university system are the degrees conferred by the Archbishop of Canterbury which are called 'Lambeth' degrees from the official residence of the archbishop. The archbishop was given the power of granting degrees by the Peter Pence Act of 1533. There is no restriction on the type of degree which the archbishop may confer. Until about fifty years ago the archbishop conducted examinations for certain degrees. This is no longer the case and he gives degrees in virtue of contributions to scholarship, taking care to avoid disparity with academic standards. The degrees given recently



have been confined to DD, LLD, DLitt, MusDoc and MA. In past years degrees were given by archbishops in virtue of nomination to ecclesiastical office, but this is no longer the case. By tradition the hood and gown of a degree given by the archbishop are those of the same degree in the archbishop's own university.

**STAFF** The normal grades of the teaching staff are: professor, reader, senior lecturer, lecturer, assistant lecturer and demonstrator. In most university departments there is only one professor who is responsible for the organization of the instruction given in his subject and, where laboratories are involved, for the requisitioning and proper use of materials and equipment. In some of the pure and applied sciences the various branches are organized as separate departments, e.g. physical chemistry alongside of organic chemistry. When there are two or more professors in a single department, one of them is either permanently or for a period in administrative charge. The titles 'associate professor' and 'assistant professor' have never had any wide currency in the United Kingdom and are now very exceptional. Until the end of the second world war, the title of reader was mostly conferred on persons in independent charge of a subject or branch of a subject for which a professorship and separate department were not yet provided or alternatively on persons who had quite unusual distinction in a particular field of work; and in status the reader had precedence of a senior lecturer. Since 1945, however, in some universities the title of reader is awarded more readily than formerly in recognition of merit in research and the distinction between the two grades in status and salary is becoming less significant. At present the number of readerships and senior lectureships combined is restricted, in accordance with an understanding reached with the University Grants Committee, to about 22 per cent. of the total full-time non-professional teaching staff. Lectureships represent the career grade in university teaching and the maximum salary (now £1050) is reached at about age 40-45; but a lecturer has a reasonable prospect of securing promotion to a higher post in his own or another university. The post of assistant lecturer is usually held on an annual basis for three years and is regarded as being either temporary, and so not renewable after three years, or probationary, in which case promotion to a lectureship follows. Demonstratorships in most universities are temporary posts normally held for only one or two years. Most of the teaching work of the universities is done by full-time members of staff, of whom in 1960-61 there were in England, Scotland and Wales 1627 professors, 888 readers and independent lecturers, 1490 senior lecturers, 5770 lecturers, 1460 assistant lecturers and demonstrators and 1182 persons in other subsidiary categories; these figures, however, exclude 742 lecturers, assistant lecturers and demonstrators at Cambridge, and 421 at Oxford who combine university with college work; they

also exclude those college tutors who hold no university appointment. In some special departments and faculties, notably in medicine, an appreciable amount of instruction is given by part-time members of staff. It is impossible, therefore, to give precise figures for staff-student ratios, but, taking full-time staff alone, the proportion varies from 1.75 to 1.11 according to the special circumstances of an individual university or faculty.

At Oxford and Cambridge the traditional method of undergraduate instruction is the tutorial, a device which demands a high ratio of staff to students and imposes a heavy burden on the teacher. Every junior member of a college is placed by the college in the care of a senior member of the university who guides his studies, suggests to him what books he should read, what lectures if any he should attend, asks him essays and other written work, and week by week discusses with him, either individually or in small groups, what he has read and the work he has written. At the end of a term or vacation a more rigorous but still informal probing by the college may take place into a student's progress. Both the university and the colleges provide an abundance of formal lectures open to all members of the university, but attendance at them is not made compulsory by any regulation. In the case of science subjects involving experimental work in laboratories the instruction is inevitably more formalized than in the humanities.

In the other universities in general the basis of undergraduate instruction is the formal lecture, reasonable attendance at which is compulsory; in some of the more popular subjects in the larger universities a class of a hundred or more is not abnormal. The amount of written work which can be demanded from the students and dealt with by the staff differs greatly from subject to subject. The virtues of a more intimate form of instruction have, however, long been recognized, and wherever the ratio of staff to students permits, small tutorial groups to supplement or replace formal lectures have become a normal part of the programme of instruction. Written 'terminal' examinations are usually conducted by the departments at least once within the session and there is normally a statutory university examination in some part of the student's curriculum at the end of each session.

Candidates for postgraduate degrees involving research are in all universities assigned to the care of a supervisor who helps in the selection of a topic within the candidate's chosen field and places his experience as an original investigator at the disposal of the student. The departmental seminar for the reading and discussion of papers written by the students and for surveys of current progress in the subject is often an important part of the postgraduate training.

It is frequently stated that about a third of a university teacher's time is or should be available for his own researches. During term the pressure of teaching duties and, in the case of the more

senior members of the staff, of administrative and committee work, often make it difficult to achieve anything like this standard, and investigations which demand continuous application have often to be reserved for vacations. Conditions differ, however, very greatly not only from university to university but from one department to another. In this connexion it may be noted that there is no established practice of granting sabbatical leave, but members of staff are fairly frequently released for a term or their teaching load is reduced in order to enable them to finish a particular piece of original work or widen their experience.

The salaries of the academic staffs of universities are based on scales or ranges approved for purposes of grant by the Treasury after consideration of recommendations of the University Grants Committee to whom representations are made from time to time by the universities and the Association of University Teachers. As at Oct. 1, 1962, in faculties other than medicine a professorial salary is within the range of £2600 to £3600, that of readers and senior lecturers may have a maximum of £2425 or in special circumstances £2525, that of a lecturer rises from £1150 by annual increments of £50 and later of £75 to £1950 (extended to £2000 for a limited number of posts), and that of an assistant lecturer rises from £900 by £50 annually to £1050. For posts in London an additional allowance of between £60 and £100 is paid, according to grade. The salaries of clinical professors rise to £3900. The salaries of medically qualified non-professorial teachers in the faculties of medicine are higher than those in other faculties and there is a uniform annual increment of £100. The government announced in December 1962 that an additional grant, sufficient to raise expenditure on salaries by 10 per cent, would be made with effect from April 1, 1963; the cost in 1963-64 would be about £3,500,000. The University Grants Committee was asked to recommend how this additional money should be distributed among the various grades of staff. At the same time it was announced that the general question of salaries in universities (and in colleges of advanced technology) was being referred to the National Incomes Commission for review.

Superannuation for members of the academic and senior administrative staffs of all United Kingdom universities has, since 1919, been dealt with under the Federated Superannuation System for Universities (F.S.S.U.). The institution contributes a sum equivalent to 10 per cent. of the member's salary, the member himself contributing 5 per cent. The combined sums are paid as premiums on insurance policies of various types (endowment assurances, deferred annuities, etc.). To meet his individual requirements, the member has the choice between a number of policies issued by an approved list of insurance companies. If he moves to another institution within the scheme he takes his accrued rights with him. The policies mature in the member's 60th year and the capital and further contributions then accumulate interest

until the actual date of retirement (normally at 65 in most universities in England and Wales, but at 67 in Oxford, Cambridge, Liverpool, London and Manchester and, for professors, at 70 in the Scottish universities). The capital available on retirement is normally used for the purchase of an annuity of a kind appropriate to the circumstances of the member, though it is within the discretion of the institution to agree to other arrangements. It is inherent in the scheme that the amount of the annuity is directly related to the totality of a member's emoluments during his whole career as a university teacher, and bears no necessary relationship to his salary at retirement. To alleviate the hardships which arise under F.S.S.U. in a period when costs of living have been rising, the Treasury approved some years ago a scheme for a modest supplementation of F.S.S.U. annuities. In 1960 a new scheme was introduced whereby the supplementation is directly related to years of service and to the average salary received during the three years immediately preceding retirement.

When a person joins a university staff from some other service, any cash he is able to withdraw from another pension scheme may be accepted as a single premium under the F.S.S.U. towards an eventual annuity.

No generally applicable statement can be made about the method of filling vacant academic posts in universities. In the case of professorships at Oxford and Cambridge there is usually a formal announcement that a chair is vacant, and persons interested are invited to forward their names to the vice-chancellor for consideration by a duly constituted board of electors who need not confine their attention to the names submitted and whose decision is final. Elsewhere a variety of circumstances may determine whether a chair shall be advertised or filled on the basis of private enquiries; and a mainly or wholly academic *ad hoc* committee, variously constituted in different universities, makes a recommendation to be confirmed by the appropriate higher bodies. A small number of chairs (mostly in the older subjects) at Oxford and Cambridge and in the Scottish universities, known as regius professorships, are within the patronage of the crown, but it is believed that academic advice is normally sought before appointments are made to them. In all universities many chairs are specially associated with the names of benefactors, etc. (e.g. the Wykeham professorship of logic at Oxford). Many posts as reader, senior lecturer and lecturer are filled by promotion from within the university, but a considerable number are publicly advertised and appointments are made on the recommendation of a committee of the faculty concerned. The majority of posts as assistant lecturer are advertised. When an important post is advertised many universities take steps to ensure that the announcement is made not only at home but overseas. In no U.K. university is there any restriction as regards nationality, religious belief or political opinion to deter candidates from appointment. The overwhelming majority of

university teachers have in fact taken their first or a higher degree in a U.K. university, but apart from Oxford and Cambridge, each university has on its staff a substantial number, and generally an appreciable majority, of teachers who have graduated at some other university in the U.K.

**STUDENTS** In 1960-61\* there were 107,699 full-time students in the universities of the United Kingdom (apart from Belfast); of these 84,999 were reading for a first degree and 1958 for a first diploma, 17,836 were engaged in research or other advanced work (including 3551 who were taking the postgraduate courses for a teacher's diploma), and 906 were attending courses not leading to a degree or diploma. Of these full-time students 6932 came from overseas Commonwealth countries and 4676 from foreign countries. The number of men students was 81,330 and of women 26,369. The over-all percentage of those in arts faculties (including social studies and law) was 43, in science and technology 30.3, in medicine and dentistry 14.5; but for the students engaged in research and advanced work (apart from teachers in training) the percentages were 35.2, 53.8 and 7.9 respectively.

The number of part-time students in 1960-61 was 17,831 of whom 2407 (mostly evening students) were reading for a first degree or first diploma, 6234 were engaged in research or advanced work and 9190 were 'occasional' students taking intra-annual courses (including 'refresher' courses) not leading to a degree. Of the part-time students 2525 came from overseas Commonwealth countries and 2335 from foreign countries. Of the 6234 part-time advanced students 38 per cent were in arts, 15.5 per cent in science and technology and 45.5 per cent in medicine and dentistry.

The number of full-time students residing in colleges or halls of residence in 1960-61 was 27.4 per cent. of the total, in lodgings 30.7 per cent and at home 21.9 per cent; of the men 23.5 per cent. were in colleges or halls, 54.3 per cent. in lodgings and 22.2 per cent. at home, the percentages for women were 39.3 in colleges and halls, 30.7 in lodgings and 21 at home. These figures, however, need further interpretation. At Oxford and Cambridge (where the number of home students is quite insignificant) all lodgings used by students who cannot be accommodated within their college are approved by the authorities, and students who live in them dine regularly in their college, participate fully in the life of the college and are under the academic supervision of the college. At Oxford 50.2 per cent live in college and 49.8 outside; at Cambridge the percentages are 55 and 45. Apart from Oxford and Cambridge (and Durham) the provisions which universities themselves make for the accommodation of their students is by way of

halls of residence which are in the charge of a resident warden appointed by the university, the warden is in most cases a full-time or part-time member of the academic staff of the university and is assisted in hall by a small number of resident tutors drawn from the staff. The students who live in hall take their main meals there, use the common-room and library facilities provided and enjoy the full benefits of a corporate life in a homogeneous community with an ethos of its own. There are two major respects, however, in which halls differ from the colleges of the older universities though the warden and tutors take a keen interest in the personal welfare of the students in residence, it is not part of their function to supervise their studies, and when a student ceases to reside in hall he has few, if any, continuing rights or obligations, and, except in the most favourable circumstances, his connexion with it ceases, even though he may still be a student within the university. The provision of halls varies very greatly: e.g. in the Durham Colleges 67.6 per cent. of all the students are in halls, at Reading 59.9, at Bristol 29.9, in Wales 29.6 (Aberystwyth 45.1, Cardiff 21.7), at Newcastle 19.5, in London 18.3, at Liverpool and Manchester 20.5, at Sheffield 15, at Leeds 14.7, at Birmingham 10.8; in Scotland 12.4 (colleges in St Andrews 54.5, Aberdeen 6.8). In a number of these universities, however, the percentage is likely to rise in the near future as new halls are completed. Outside of Oxford and Cambridge the lodgings used by women not living in hall or at home must be approved by the university; men are generally free to make their own arrangements, though lists of approved lodgings are usually available.

Social life at Oxford and Cambridge centres in the college, and within each college there are athletic, debating and other societies confined to members of the college. Almost all colleges have their own athletic grounds. There is also a great proliferation of university societies open to all members of the university who wish to join; some of them are of long standing, others exist for a brief space and are heard of no more. Apart from the athletic and boating clubs and the dramatic societies, the best known are the Union at Oxford and the Union Society at Cambridge, both of which provide for their members a good library and the usual amenities of a club, but which are even more famous for their debates at which many who later achieved eminence in public life have first made their quality known. In most other universities there is a guild of undergraduates or students' representative council, the establishment of which is prescribed by charter. The students themselves elect their own officers to conduct the affairs of the guild. The social activities of the guild are centred in a union building, owned by the university but managed mainly by the students themselves, in which are provided dining-rooms, cafeterias, a library for leisure reading, a hall for

\* The latest detailed figures published by the University Grants Committee in their official *Reviews* relate to 1960-61, see also 'The Year' section of each university entry below.

debates and dancing, a gymnasium, lounges and quiet rooms. Normally there is a single union for men and women; in some places student meals are provided in a refectory run by the university. Membership of the guild and the payment of the subscription to the union (at present about £6 to £7 per annum) are compulsory for full-time undergraduates. The major societies, debates and the athletic clubs are organized as part of the guild activities, and the other student societies, religious, political, literary, or departmental, hold their meetings in the union. Athletic grounds are provided by the university, but in large cities they are often some considerable distance from the union. In all universities there is an officers' training corps which is the responsibility of the army authorities and in some there is also an air squadron; membership of either of these is entirely voluntary.

Particularly since 1945 universities have developed student health services in order to ensure that a student's academic progress shall not be unnecessarily impeded through lack of medical attention; in some cases there are one or more full-time medical officers in charge of this work. The extent to which students are under an obligation to avail themselves of these services varies; but at least a general overhaul on admission and a chest X-ray are usually expected. Associated with the health services in almost all universities there is a voluntary or compulsory scheme of physical education for students. Care for other aspects of the personal welfare of students in non-residential universities is provided by some form of advisory service which ensures that a student who finds himself in some difficulty knows clearly to which members of the staff he may freely and confidently go for help and counsel. There is often a special adviser for overseas students. Most universities have at least one accommodation officer who has full charge of the lists of approved lodgings. There is also an appointments board with appropriate staff to help students to secure posts on graduation; and the good relations established between these boards and prospective employers of all kinds are of very great benefit to all concerned.

At Oxford and Cambridge the fees payable by a student include university and college dues, tuition fees and (if he lives in college) charges for rooms and meals; some colleges are more expensive than others, and living in lodgings is not necessarily cheaper than living in college. It is scarcely possible to reside at either university for the three terms each of eight weeks for much less than £350 even on the most economical basis. In the other universities the tuition fees are around £50 per session for an arts first degree course and £60 for other faculties. Tuition fees for higher degrees average £30 per session, but £40 is charged when laboratory work is involved. In Scotland these fees are somewhat lower. The fees for first diploma courses are in general less than those for degree courses. The cost of residence in a hall for a session of thirty weeks is within the

range of £140 to £160, but this sum often does not include the cost of lunches on weekdays. Reasonably good lodgings with partial board are not obtainable at much under £3:10s. per week, and in some places the minimum is above this figure. Apart from clothing, travel and personal expenditures, an overseas student would be well advised to plan on the basis that the minimum cost of a university session together with vacation expenses would be between £500 and £550 according to the university he attended and the course he was taking.

A considerable measure of financial assistance is now available for university students. Until the end of the first world war a poor student in England or Wales could not hope to get to a university unless he won a competitive scholarship offered by one or other of the universities, was awarded one of the few grants which his local education authority might provide, or gained a leaving scholarship from his school, if it had any to offer. The open entrance scholarships and exhibitions founded by benefactors at Oxford and Cambridge colleges were (and still are) the hallmark of brilliant promise and correspondingly difficult to win. The other universities also had a limited number of open scholarships. In Scotland the situation was somewhat easier because of the resources of the Carnegie Trust, which has, as one of its objects, the helping of needy students. Between the wars, however, the Ministry of Education instituted a system of state scholarships tenable at any university, and local education authorities expanded their schemes for scholarships and grants. Since 1945 the number of state scholarships and corresponding awards in Scotland have been very greatly increased, as have the local education authority awards. The Ministry of Education also supplemented the value of all university open scholarships and exhibitions up to that of state scholarships, and many local education authorities made awards within the same range. In 1961 the Ministry awarded about 2400 state scholarships and supplemented about 1530 open university scholarships, while local authorities awarded about 21,000 scholarships or grants for university students. From this variety of awards there emerged a clear hierarchy of academic merit: open award at Oxford or Cambridge, open award at other universities, state scholarship, local authority scholarship, local authority grant.

Following upon the report in 1960 of a committee appointed by the Minister of Education and the Secretary of State for Scotland, the government has decided that state scholarships (but not mature state scholarships) should be abolished after the selections to be made in the summer of 1962, and that awards by local authorities should be made available automatically to all students admitted for the first time to university first degree courses who have two G.C.E. passes at advanced level or the equivalent. A Standing Advisory Committee on Grants to Students was also appointed by the Minister of Education and the Secretary of State for Scotland to review the

standard grants to students for maintenance. It has always been and remains a firm principle that the actual financial benefit accruing to an undergraduate student shall be assessed in all cases according to the income of the family from which the student comes - to the poorer, more; to the richer, less. For a student who holds a state scholarship at Oxford or Cambridge the *assessum* maintenance allowance in addition to tuition fees is now £345, at London £335 and at other universities £320, but the rates are somewhat lower for students in lodgings and still less for those living at home, in addition, special vacation allowances are payable in some circumstances and provision is made for certain courses of vacation study and for study abroad. Additional payments may be made to married students.

Financial support is also available for postgraduate students. In 1960-61 the universities themselves made over 1100 research awards (called postgraduate studentships or fellowships) from their general funds or special endowments. The Department of Scientific and Industrial Research awarded 2000 postgraduate studentships, and the Ministry of Education awarded 260 state studentships (in addition to extending the tenure of a number of existing undergraduate state scholarships). Most of the universities' awards are of the value of £300 per annum or over, and parental income is generally not taken into account. From 1962 the standard grant (not depending on parental income) for D.S.I.R. and Ministry of Education postgraduate awards will be £450 per annum for students living in college, hostel or lodgings and £340 for those living at home, grants for dependants are also available. In addition to all these awards, the funds donated by various research associations and by industry in support of the academic research of individual departments in universities can often be used by agreement to finance postgraduate students.

There are two important consequences of these arrangements for assisting students: first, straitened circumstances at home are no longer any serious barrier to a university education, and secondly, since the tenure of state and local education authority awards is not restricted to particular universities, students are free to go to the university of their choice if it is willing to accept them. Oxford and Cambridge can no longer be characterized as in the main the universities for the prosperous; and the civic universities no longer draw as large a proportion of their students as formerly from their immediate area. In 1960-61 the percentage of full-time students in Great Britain who were being assisted (mostly from public funds) was 82.4, at Oxford the percentage was 84.9, at Cambridge, 81.2, at London, 74.7, at the other English universities 89.2, in Wales 92.6 and in Scotland 72.8. It should be emphasized, however, that the maximum maintenance allowance is not awarded to every assisted student. Exact statistics are not available; but it is estimated that under regulations in force from October 1962 about 40 per

cent of university students will be receiving the maximum.

In recent years more and more students have taken paid employment for some part of the long vacation: some, e.g. engineers, do work which has direct relevance to their studies, but some others undertake jobs which are of little or no benefit either mentally or physically; some do the work to eke out their finances, some to secure the means for continental travel, some for the wider interest and experience they hope to gain thereby and some because of the sense of independence which the earning of money brings. The universities are alive to the dangers inherent in this trend, and, whenever possible, tutors seek to dissuade their students from unsuitable kinds of work and above all to restrict the number of weeks they devote to it at the expense of the reading they ought to do in connexion with their studies.

Since the length of first degree courses varies from three to six years it is not feasible to relate the proportion of students to national age groups in a really significant manner; it can be noted, however, that full-time students represent rather less than 1 in 500 of the whole population.

**ACADEMIC YEAR.** The academic year is divided into three terms of which the first (called the Michaelmas, Martinmas or autumn term) begins, so far as students are concerned, in the first week of October, the second (the Hilary, Candlemas or Lent term) in the second week of January and the third (the Easter, Trinity, Whitsun or summer term) in the second or third week of April. At Oxford and Cambridge the required period of residence is eight weeks each term; elsewhere each term extends over nine or ten weeks. The programme of undergraduate instruction at Oxford and Cambridge continues for the full length of each term, since only a part of the student body will be sitting university examinations at any one time; elsewhere most undergraduates have examinations in the second half of the third term and formal instruction comes to an end by the beginning of June. Most honours students at Oxford who have taken their final written examination in late May or early June have to present themselves for a *viva voce* examination in July, and it is only towards the end of that month that class lists are published; the Cambridge lists are made known about the middle of June; elsewhere examination results appear at the end of June. In all universities graduation ceremonies are held several times during each session; but except at the older universities of England the majority of degrees are conferred at large public ceremonies at the beginning of July.

**SUMMER SCHOOLS,** such as are a well-established feature of the academic year in the U.S.A., form no part of the British pattern. In a few instances and only rather sporadically special courses, e.g. in English studies, for overseas students, are arranged, but whatever their content they do not

count towards a United Kingdom degree or affect the number of normal terms to be kept before proceeding to such a degree. Students, however, who wish to continue their reading within the university during part of the long vacation can generally do so, and in the case of postgraduate students who need laboratory facilities arrangements are made for them to work throughout most of the summer.

**EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION.** The concept that universities had some obligation to spread the gospel of learning widely throughout the community took really practical shape in 1873 when James Sturt, fellow of Trinity College, persuaded the University of Cambridge to organize university extension courses to be delivered up and down the country by members of the university. The educational movement thus started was also fostered by Oxford and the newer university colleges, and additional momentum was gained when in 1903 Albert Mansbridge founded the Workers' Educational Association (W.E.A.). The *Final Report of the adult education committee of the Ministry of Reconstruction* published in 1919 (and reissued in 1956 in an abridged form as *A Design for Democracy*) focused attention on the achievements up to that time and suggested many of the lines along which subsequent development has taken place.

Nearly all universities now have a department of extra-mural studies headed by a director who in a number of instances has the status of professor of adult education. The work of these departments is carried on partly by staffs of full-time tutors of whom there are about 250 in all, partly by part-time tutors (e.g. school teachers) and not least by members of other university departments. The courses, almost all of them conducted in the evenings, are arranged not only in university towns and the immediate vicinity but often in places at a considerable distance away, indeed wherever a need in adult education has to be met. Many universities have tutors resident in outlying areas, part of whose duty it is to assess and stimulate the demand for adult classes. In many of their activities the extra-mural departments work in close collaboration with the W.E.A.

Broadly speaking, three types of course have been developed: extension courses consisting of something between 3 and 18 lectures on a particular topic given by a single lecturer or by a team of lecturers; sessional classes which, generally under the guidance of a single lecturer, have weekly meetings from the end of September to the end of March; and tutorial classes each of which is planned as a three-year course and involves not only lectures but discussions and written work. In the 1950-61 session almost 2700 extension courses and 1733 sessional classes were organized and 813 tutorial classes were in being; in all, nearly 100,000 students were enrolled. The fees charged to students are merely nominal. The courses most frequently given are in history,

international affairs, government, social studies, philosophy, psychology, religion, musical history and appreciation, literature, the fine arts, and the physical and biological sciences. In recent years the departments have also organized 'refresher' courses for qualified scientists to help them to keep abreast of the newer advances.

It has hitherto been the policy of extra-mural departments and of the W.E.A. not to enter for vocational and professional qualifications or to duplicate the work of the evening classes provided by local education authorities; consequently, although written work is encouraged in the longer courses, only in a small minority of instances is any examination offered at the end of a course or any certificate awarded. There is no restriction on the membership of a course or any academic prerequisite: the sole requirement is a genuine interest in serious study; it is therefore not unusual to find the policeman, the housewife, the shop-assistant, the manual worker and the bank manager sitting side by side at an extra-mural class. A small number of scholarships are available, some of them provided by the Ministry of Education, to enable students who wish to carry their studies further to go on to universities. Mention should also be made here of the dozen or so residential adult education colleges up and down the country which provide full-time courses of a week or fortnight up to a few months' duration; with some of these colleges the extra-mural departments have a close though generally informal link.

The finances of the extra-mural work of the universities are somewhat complicated by the fact that some of the courses given qualify for a direct grant from the Ministry of Education, or are assisted by local education authorities, but the proportion of the cost covered by the grants varies from case to case. When allowance is made, however, for such contributions it is estimated that the net cost met from general university funds is of the order of £100,000 per annum.

The *Universities Council for Adult Education* (hon. secretary, T. Kelly, MA PhD, departments of extra-mural studies, University of Liverpool, Liverpool, 3), on which all universities are represented, publishes a brief *Annual Report* containing figures relating to the activities of extra-mural departments. The *National Institute of Adult Education* (England and Wales) has headquarters at 35 Queen Anne Street, London, W.1 (secretary, E. M. Hutchinson, MA, tel. Langham 3155). It is an independent consultative body which has a council representing universities, local education authorities and voluntary agencies. It convenes an annual conference and publishes quarterly *Adult Education* (annual subscription, 10s. 6d.).

**INSTITUTES OF EDUCATION.** Since 1947 and arising out of the report of the McNair committee on *Teachers and Youth Leaders* (1944) most universities in England and Wales have established an institute of education to promote co-operation between the university, teacher training colleges,

local education authorities and other educational agencies within the university area. The institute acts as an area training organization for the training of teachers on behalf of the Ministry of Education, conducts examinations recognized by the ministry for the teachers' professional qualification, arranges refresher and other courses, and fosters educational research. The director of the institute is a full-time university officer and often has the title and status of a professor. The committee of management of the institute includes representatives of the university, the training colleges, local authorities and practising teachers. The institute, however, has no responsibility for the control, financial or otherwise, of the individual colleges, which are maintained in the majority of cases by the local education authorities, though many are the responsibility of religious denominations. Throughout the country there are 119 colleges, with a total of 31,867 students, which provide a general course of education and pedagogical training. From 1960 the course of study in these colleges was increased from two to three years; and a programme of building has been approved for an increase of over 20,000 in the number of places. A further 40 or so colleges, with a total of 4424 students, give more specialized three-year courses in, e.g., physical education, domestic science. The students who attend these various types of college are admitted at the age of about 18 in accordance with standards of achievement in the General Certificate of Education approved by the ministry and the institute; and they are financially assisted, on the basis of parental income, by grants from public funds. The university's department of education, which is itself a constituent member of the institute, provides a one-year course of professional training for graduates, who frequently migrate to another university for this year of training; in 1960-61 there were 3207 graduates attending these one-year university courses in England and Wales.

In Scotland the work of the colleges and centres for the training of teachers has since 1950 been co-ordinated by a Council for the Training of Teachers under the aegis of the Scottish Education Department. In 1960-61 there were just over 3300 students enrolled.

In Northern Ireland about 1600 students were enrolled in 1960-61 in colleges for the training of teachers.

**INTER-UNIVERSITY ORGANIZATIONS** The Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom is a consultative body with no executive powers. It originated in occasional meetings of the academic heads of universities convened for special purposes and did not begin to take on its present shape and functions until after the first world war, when the need for more frequent inter-university consultation became apparent. It was formally established as a standing committee of what was then the Universities Bureau of the British Empire by the

governing bodies of the universities in 1931, and its present constitution was approved and adopted in 1950. Its membership is confined to the vice-chancellors of the universities in England, Wales and Northern Ireland, the principals of the Scottish universities and the principal of the University of London. The pro-vice-chancellor of Durham, the principal of a second Welsh university college and the registrars of Oxford and Cambridge also attend. For a particular meeting a member may appoint a deputy to attend in his place, but rarely does so. The committee meets in London every month except in August. The chairman of the committee is elected annually and usually serves for three years in succession, the chairman for 1962-63 being Professor W. Mensfield Cooper, LL.M, vice-chancellor of the University of Manchester. The Association of Universities of the British Commonwealth (secretary, J. F. Foster, MA LL.D) provides the secretariat for the committee towards the cost of which the home universities make a special contribution, and the official address for the committee is 36 Gordon Square, London, W.C.1 (tel.: Euston 8374).

The function of the committee is simply to consider matters of common interest to universities, but it is not restricted to topics specifically referred to it. It is not empowered to commit the universities in any way and it studiously refrains even from appearing to do so; when matters arise which call for positive action or the formulation of a policy, all the committee can do or desires to do is to seek special authorization or make a recommendation which the universities individually may accept or reject. By its consultative activities, however, the committee holds an influential and central position in university affairs; for, apart from the initiative it frequently takes in making recommendations regarding a common policy on matters of purely internal concern to the universities, it is the channel through which not only the University Grants Committee but many ministries (e.g. education, health) which have contacts with the universities can ascertain the reaction of informed and responsible university opinion to proposals they have in mind or to problems they would like to discuss; and it is inevitable that the views which, within its terms of reference, the committee is willing to express should carry great weight with the outside agencies which consult the committee and with the authorities of the individual universities. The committee also, at its discretion, nominates representatives, not always from within its own membership, to outside bodies with educational interests, and from time to time it enters into informal discussions with such bodies as the Association of University Teachers and the Headmasters' Conference. Since 1946 it has organized an annual Home Universities Conference, held in London in December, at which a widely representative gathering of university teachers, administrators and members of governing bodies discusses broad topics of current interest. The committee issues no report

or annual statement; occasionally it sponsors special inquiries which are published, e.g. *The Planning of University Halls of Residence* (Clarendon Press, Oxford, 1948), *Report on an Inquiry into Applications for Admission to Universities* (1957). A *Report of an ad hoc Committee on Procedure for Admission of Students* was published in 1958, further *Reports* in 1960 and 1961, and the *Report of a Sub-Committee on University Entrance Requirements in England and Wales* in 1962. These reports (except the first) are published for the committee by the A.U.B.C. as are also the verbatim reports of the proceedings of the Home Universities Conferences and a *Code of Practice for the protection of persons exposed to Ionising Radiations in University Laboratories* (1961).

The Association of University Teachers (A.U.T.), a professional association established at the end of the first world war, has as its objects 'the advancement of university education and research, the promotion of common action among university teachers, and the safeguarding of the interests of its members'. Membership is open to all full-time teachers (including professors) and research workers in institutions of university rank in the United Kingdom; the proportion of eligible members of staff who belong to the association varies from university to university, but the total membership is such that the association has been accorded the right of making direct representations to the University Grants Committee on salary matters. The work of the association is conducted through local branches and a central council. The hon. general secretary is Lord Chorley and the executive secretary is K. Urwin, MA DU, Laure House, 21 Dawson Place, London, W.2 (tel.: Bayswater 9011). The interests of the association range over a wide variety of topics including university entrance requirements, selection of students, organization of curricula, student health, inter-library services, sabbatical leave, international co-operation at university level, salaries, income-tax and superannuation. From time to time it issues reports to its members on these subjects.

The National Union of Students (N.U.S.), founded in 1922, is a body to which are affiliated the guilds of undergraduates and student representative councils in most of the universities of England, Wales and Northern Ireland, to it also belong similar student associations in certain other institutions of higher education (teachers' training colleges, technical colleges). Its purpose is to provide a focus for the expression of the corporate opinion of students on matters which they feel to be particularly their concern, its main interests are in entrance requirements, curricula, maintenance grants and fees, student health, halls of residence and other student accommodation, and international co-operation at the student level; it also arranges for student travel and for vacation work. It has a small permanent secretariat (3 Endeavour St., London, W.C.1; tel.: Euston 2184); its affairs are managed by a council on which the affiliated guilds are repre-

sent, and it organizes an annual congress, held in a university centre, at which several hundred delegates and others discuss current student problems. In Scotland there is a separate National Union of Students.

**THE UNIVERSITIES TO-DAY.** In the 1938-39 session there were 50,250 full-time students in the universities of Great Britain, of these 44.7 per cent. were in arts faculties, 25.9 per cent. in faculties of science and technology and 29.4 per cent. in the other faculties. Immediately after the war preference in admission was given to ex-service men and women and there was a great influx of such students, some of whom were returning to resume their interrupted studies while others were enabled by generous grants to embark upon a university course which they had not previously contemplated. By 1949-50 the total number of students had consequently risen to 85,400. It had at first been thought that the great increase in numbers would be temporary and that, allowing for some 'normal' expansion, universities would eventually settle down to a total of about 70,000. In May 1946, however, a government inter-departmental committee under the chairmanship of Sir Alan Barlow published a *Report on Scientific Manpower* which called for a drastic increase in science and technology graduates together with a corresponding increase in the humanities. From that time onwards the universities have accepted the need for a considerable permanent expansion; their numbers have never fallen below 80,600 (in 1953-54); and with the assistance of Treasury non-recurrent grants they have made some appreciable progress towards the provision of new academic buildings and halls of residence, though they are not yet satisfied that the rate of building has been sufficient to keep up with the demands that face them. The balance of the faculties has changed during these post-war years: in arts there are now 43 per cent., in science and technology 39.3 per cent and in the other faculties 17.7 per cent.

In October 1956 the government published a report on *Scientific and Engineering Manpower* which emphasized once again the need from the point of view of the national welfare for a further increase in the number of university persons trained in the pure and applied sciences. The target for expansion was then fixed as 124,000 to 125,000 full-time students by the middle 1960s, and it was proposed that two-thirds of the expansion should be in science and technology. Early in 1960, after a reassessment of the probable need for university places, the University Grants Committee was authorized to discuss with the universities the practicability of providing 170,000 to 175,000 places by the early 1970s as a minimum first instalment. In March 1962 the government announced that it was its wish that a figure of 150,000 should be reached by 1966-67 and about 170,000 by 1973-74. Plans for expansion on this scale are currently under consideration. This could mean that by 1974 in arts there would be



about 35 per cent., in pure and applied science 52 per cent. and in the other faculties 13 per cent. In other words, science and technology would then occupy the predominant position which arts had in 1938-39, but the humanities themselves would nevertheless be stronger in absolute numbers than the pure and applied sciences are at the present time. The prospect of this further change in the balance of faculties causes some anxiety, and much thought is being given to the problem of ensuring that, whatever faculty a student enters, his education at the university shall be as broadly based as possible. In this connexion considerable attention is being paid to the relation between studies in the VIth form at schools and the university curriculum.

The future supply of students who can meet the standards set by the universities for admission will be affected by two important factors. The effects of the war-time increase in the birth-rate are now being felt at the university age, for every 100 people aged 18 in 1957 there will be 144 in 1964. And since 1956 the annual number of births has again shown a marked upward trend. The other factor is that in recent years there has been an annual increase of 5 per cent in the number of grammar school pupils who stay on to complete the VIth form course and so qualify for university entrance. The cumulative effect of these two factors is likely to be such that the problem of the universities is not the supply of applicants but the selection of those best fitted to enter. This complex problem of achieving the most satisfactory selection procedures is one which has engaged the attention of the universities continuously since 1945. What emerges from all discussions of selection problems is that the development programmes of the universities as regards both academic buildings and halls of residence are urgent; and even the increased provision for capital expenditure announced for 1960-1961 will do no more than meet the cost of top-level priorities. It is anticipated also that there will be real difficulty in recruiting a sufficient number of properly qualified staff, especially in the sciences, in the face of competition from industry and government departments; yet the universities must have the teachers to enable them to cope with the increased numbers from whom eventually an enhanced supply of university teachers may be expected.

Finally a word may be said about the distribution amongst the universities of the forthcoming expansion. A simple uniform percentage increase is scarcely feasible. Oxford already has 3950 and Cambridge 3000 more students than they had in 1938-39, and it is realised that any further large increase would either wreck the collegiate system or involve the foundation of new colleges. In 1958 proposals were approved at Oxford for the establishment of a new college as a development of the existing St Catharine's Society and at Cambridge for a new foundation to be called Churchill College. Each of these will provide for about 400 students and each will cost between

£2,000,000 and £3,000,000 to build and endow. An effective solution of the general problem of university expansion, however, cannot be found on as high a cost basis as £5,000 per student place. On the other hand, there are 10 institutions including constituent colleges of federal universities (apart from London) whose present student population is less than 1600, but even if these were willing to double their capacity within the next few years and given the resources to do so, there would still be a prospective deficiency of the order of 50,000 places. The immediate burden of meeting the growing demand is therefore likely to fall on those institutions which now have between 2000 and 4500 or 5000 students. Developments along these lines have been agreed by the universities and the University Grants Committee, and their implementation now depends on the provision by the Treasury of funds for the building of laboratories, classrooms, libraries, halls of residence and student amenities.

A concurrent but more fundamental alleviation of the problem is also being found in the foundation of new universities analogous to the new University of Sussex at Brighton. An authoritative account of the principles and procedures involved in the foundation of these new universities will be found in the U.G.C. *Returns for 1958-59 and 1959-60*. The granting of a charter to a new institution of university rank is a matter for the royal prerogative. The financing of such an institution, however, would in modern conditions fall mainly on the Treasury, which would wish to satisfy itself about the proposed location, the availability of a suitable site and the measure of local enthusiasm and support on which the institution could rely. The University Grants Committee therefore set up in 1959 its own sub-committee on new university institutions. In general the policy adopted by the U.G.C. is that new institutions should be multi-faculty and should from the start have the power, under proper safeguards for academic standards, to grant both first and advanced degrees. In March 1960 the U.G.C. recommended to the Treasury that steps should be taken to establish new universities in Norwich (University of East Anglia) and York, from both of which cities formal applications had been received. In both cases academic planning boards, consisting of eight or so persons most of whom are eminent in education, have already been appointed to be responsible for the preliminaries necessary for the effective inauguration of the institutions. The vice-chancellors have also been appointed, discussions are taking place as regards curriculum and it is anticipated that the first groups of students may be arriving in 1963 or 1964.

During 1961 the University Grants Committee considered the formal applications made by ten other localities, together with tentative approaches from eight more. In consequence decisions were taken to set up new universities in Canterbury (University of Kent), Colchester (University of Essex), Coventry and Lancaster, academic plan-

ning boards have now been established and the appointments of vice-chancellors have been made or are imminent. It is already clear from pronouncements they have made that these are newest universities, all of which aim at a student population of around 3000 within ten years, will not only increase the number of available university places, but like Keele and Sussex (see above, p. 88a) will also make valuable use of the opportunity afforded of breaking down the traditional departmental organization of studies; and their charters may also provide for interesting constitutional arrangements in the sphere of academic government.

**OTHER PROVISION FOR HIGHER EDUCATION** An entirely false impression would be formed if it were thought that higher education in the United Kingdom is confined to the provision made in universities, indeed an appreciable amount of work which is elsewhere done within universities is here done in other institutions. In England and Wales alone, in addition to students in universities and in teacher training colleges associated with university institutes of education (see p. 89f), there were in 1961, of the age of 18 or over, 53,000 full-time, 324,000 part-time day students and 662,000 evening students taking courses in colleges of technology, technical colleges and other recognized vocational institutions (e.g. colleges of art, of agriculture, of commerce). When these figures are compared with the 15,000 or so full-time students of technology in universities, the importance of this other provision in the educational system of the country will be realized. Apart from the Manchester College of Science and Technology, which is partly financed through the University Grants Committee, there are 6 specialised 'national colleges' (e.g. for horology, rubber technology), 10 institutions designated as 'colleges of advanced technology' (CATs) and 25 regional colleges of technology; in addition there are over 500 other recognized establishments of higher education which vary considerably in size and importance. All, however, are maintained or aided from the public funds administered by the Ministry of Education and local education authorities; but from April 1965 the colleges of advanced technology will be placed in charge of independent governing bodies which will receive grants direct from the ministry. In order to improve and expand the provision for technical education, especially where advanced work is or could be done, the government embarked in 1956 on a five-year building plan (including some provision for hostel accommodation) which will cost £70,000,000; and a further plan for expansion is

being worked out at the present time. In Scotland and in Northern Ireland also, comparable provision is made for higher education in institutions other than universities.

Though there are in general no formal academic prerequisites for entry to technical colleges corresponding to the minimum university entrance requirements, many full-time students with suitable attainments are assisted financially, the Ministry of Education having increased in 1958 the number of their technical state scholarships to 254 and the local education authorities the number of their awards to 12,000. Of the part-time day students over the age of 18 about 80 per cent. are released by their employers to attend vocational and other courses for one or more days each week. Most of the senior and advanced courses prepare students in a wide range of subjects for the examinations of the City and Guilds of London Institute or the regional Examining Unions, or for an Ordinary or Higher National Certificate. In a minority of instances students present themselves for an external degree of the University of London. In 1956 there was also established on a national basis a diploma in technology (DipTech) which is intended to represent a level of achievement comparable to an honours degree in a university, and universities in general have agreed to regard the holder of the diploma as being *pari passu* qualified to enter on a course leading to a higher degree in pure or applied science.

Mention should here be made of the appointment early in 1961 by the prime minister of an influential committee under the chairmanship of Lord Robbins to enquire into the present state and future scope and organisation of the whole field of higher education in Great Britain, including universities, teacher training colleges and colleges of technology. The findings of this committee are expected to be promulgated in 1963 and are likely to be of crucial importance.

In Scotland, corresponding broadly to the colleges of technology and similar institutions south of the border, there are 16 institutions (including the Glasgow Royal College of Science and Technology, which is on the University Grants Committee's list) which arrange advanced or specialized courses and about 75 other further education centres. In all, some 12,750 full-time students over the age of 18 are enrolled, together with about 37,700 part-time day students and 223,750 evening students.

In Northern Ireland 4600 full-time, nearly 7000 part-time day students and more than 24,000 evening students are enrolled at 165 centres of technical instruction.

[continued on p. 910]

INTER-UNIVERSITY COUNCIL FOR HIGHER EDUCATION OVERSEAS, 29 Woburn Square, London, W.C.1 (tel. Museum 8916). **Chairman**—Sir Charles R. Morris, KCMG, MA LL.D. **DLitt. Secretary**—I. C. M. Maxwell, MA. The Inter-

University Council was constituted in 1946, at the invitation of the secretary of state for the colonies, by the universities of the United Kingdom and colonial institutions of full university status. Its terms of reference are those recommended by the

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Asquith commission on higher education in the colonies. The general purpose of the council is threefold:

- (a) to strengthen co-operation between the universities of the United Kingdom and the universities already existing in colonial and formerly colonial territories;
- (b) to assist in the development of universities and university colleges in those territories;
- (c) to assist generally by giving advice and by taking other action to promote university education and research in those territories.

In 1954 the responsibilities of the council were extended at the request of the secretary of state for Commonwealth relations to include university education in the Federation of Rhodesia and Nyasaland. More recently countries such as Nigeria, Sierra Leone, Tanganyika, Uganda, Jamaica and Trinidad have achieved independence within the Commonwealth but the relationship between the university institutions in these

territories and the Inter-University Council remains close.

The council consists of one representative of each of the universities, together with co-opted members and the educational adviser to the secretary for technical co-operation, Sir Christopher Cox.

COLONIAL UNIVERSITY GRANTS ADVISORY COMMITTEE, 29 Woburn Square, London, W.C.1 (tel. Museum 8016) Chairman—Sir Hector Hetherington, GBE, MA LL.D. DLitt DSci. Secretary—I. C. M. Maxwell, MA. The committee was constituted in 1946 by the secretary of state in accordance with a recommendation of the commission on higher education in the colonies. It is charged with the duty of advising the secretary of state on expenditure of United Kingdom funds on the development of higher education in the colonies. The committee works in close co-operation with the Inter-University Council, upon which it relies for advice on the academic aspects of proposals under consideration.

## DIRECTORY TO SUBJECTS OF STUDY\*

FIRST DEGREES. Each university (except East Anglia, Keele, Sussex and York) awards first degrees with honours, or special degrees, in all the following subjects: botany, chemistry, classics (Greek and Latin), economics, English, French, geography, geology, German, history, mathematics, philosophy, physics, zoology. For East Anglia, Keele, Sussex and York, see below.

The Table on pages 904-909 shows which universities provide first degree courses in certain other subjects. In some cases, courses of instruction leading to degrees which, though having the title of bachelor, are in fact open only to graduates, are also indicated in the Table, e.g. references have been included to degrees of bachelor of education and bachelor of divinity.

The symbol ✓ means that the subject mentioned may be studied as part of the course leading to a first degree.

The symbol √ means that the subject forms a main part of the course leading to a first degree, and that a degree (usually—but not always—a degree with honours or a special degree) can be obtained in that subject either alone or in combination with one or two other principal subjects. The symbol √ has not been used for subjects taken only in a course for a general degree or a general degree with honours.

Each subject indicated in the column for the University of London may be studied at one or more schools of the university, see the special London Table on pp. 1070-1072. A pamphlet

entitled 'General Information for Internal Students', which gives details of the schools of the university and the particular subjects which can be studied at them, may be obtained from the Academic Registrar, University of London, Senate House, Malet St., London, W.C.1.

Some of the newly established universities have organized their degree courses differently from those of other universities in the United Kingdom. (For fuller details, the university 'Prospectus' or 'Calendar' should be consulted). The universities of Keele and Sussex do not award honours degrees, or special degrees, in single subjects. At Keele, students are normally required (following the 'foundation year' common to all students) to study two principal subjects for three years. The courses provided at Sussex are integrated multi-subject honours courses and in 1962-63 the following subjects are being offered as major subjects in these courses: American studies, chemistry, economics, English, French, German, geography, history, mathematics, philosophy, physics, politics and sociology, Russian. Additional subjects may be offered from 1963-64.

The University of East Anglia will provide arts courses leading to an honours degree of BA. There will be schools of English studies, European studies and social studies, and for the first year courses in all schools will be designed broadly, narrowing to greater specialization in years two and three. Studies will be as closely integrated as possible. BSc degree studies will include biology,

\* Note.—A fuller directory is to be found in *Higher Education in the United Kingdom: a Handbook for Students from Overseas and their Advisers* (Longmans, Green & Co., 1962).

chemistry, mathematics and physics. In 1963-64 only courses in the schools of English studies and of biological sciences will be available.

The University of York will award single subject and combined subject degrees. In 1963, possible subjects for single subject degrees will be economics, English, history, mathematics and politics. In addition, any of English, history and politics, as well as education and philosophy, may be studied as one of two subjects in a combined subject degree.

The Table on pp. 904-909 also shows in which of the subjects listed the Manchester College of Science and Technology provides courses leading to first degrees awarded by the University of Manchester, and similarly in which subjects the Royal College of Science and Technology, Glasgow, provides courses leading to first degrees awarded by the University of Glasgow. Both colleges also provide other courses, which are not shown in the Table.

The Table on pp. 904-909 does not purport to be anything more than a signpost to direct the reader to the 'General Information' sections of the appropriate university entries, where further particulars as to title of degree, length of course, etc., will be found.

**DIPLOMAS, CERTIFICATES, ETC.** The following lists show which universities offer diplomas, certificates, testamurs, licences, etc., in the subjects named. In some cases the qualification is awarded by a constituent college of the university mentioned and not by the university itself.

The title of the qualification is given in each case. It should be noted that some of these qualifications are open to graduates only. Information as to whether particular qualifications are postgraduate or not and as to length of courses will be found in the 'General Information' section of the entry for each university or college.

For the convenience of the reader the qualifications have been grouped under general headings, which are not, however, necessarily identical with the names of the faculties under which the subjects fall in any particular university.

#### Agriculture & Forestry

*Agricultural bacteriology* Leeds; *agricultural botany* Leeds; *agricultural chemistry* Leeds; *agricultural economics* Leeds, Oxon, R'dg, Glas; *agricultural science* Camb., Wales; *agricultural zoology* Leeds; *agriculture* Camb., Leeds; *dairying* Wales; *dairy science* Nott.; *estate management* Camb.; *farm management* Leeds; *forestry* Oxon., Wales, Edin.; *horticulture* R'dg.; *plant pathology* Leeds; *rural science* Edin.

#### Arts

*Anthropology* Durh., Lond., Oxon., Wales; *anthropology, cultural* Oxon.; *anthropology, physical* Camb., Oxon.; *anthropology, racial* Camb., Edin.; *archaeology* Liv., Lond.; *archaeology, Chinese* Lond.; *archaeology, classical* Camb., Lond., Oxon.; *archaeology, European* Lond.,

Oxon., *archaeology, Indian* Lond.; *archaeology, Islamic* Lond.; *archaeology of Western Asia* Lond.; *archaeology, prehistoric* Camb., Lond.; *archaeology, administrative* Lond.; *art* Wales; *art, history of* Lond., Oxon.; *biblical history & literature* Sheff.; *biblical knowledge* Manc.; *biblical studies* Durh., Glas, Belf.; *business studies* Sheff.; *Christian theology* Camb.; *commerce* Birn.; *dictation & drama* Lond.; *divinity* Birn.; *divinity (further study in Hull)*; *divines* Birn., Lond., Glas.; *economics* Camb., Oxon.; *economics & political science* Oxon.; *economic studies* Durh.; *Egyptology* Lond.; *fine art* Durh., Lond., Oxon., Wales; *geography* Lond., Wales, Edin.; *geography, social* Glas.; *handicraft* Wales; *historical studies* Camb.; *history & philosophy of science* Camb., Leeds, Oxon.; *history & archaeology*, *Greek* Glas.; *history & archaeology*, *Roman* Glas.; *history, Greek* Glas.; *history, Islamic* Glas.; *history, Roman* Glas.; *Indian philosophy* Lond.; *industrial administration* Liv., Manc., Glas.; *institutional management* Lond.; *international studies* Lond.; *librarianship* Lond.; *linguistics, general* Manc., Edin.; *medieval & modern writing* Wales; *music* Oxon., Wales; *paleography & archives administration* Wales; *paleography & manuscript studies* Edin.; *paleography, semitic* Wales; *philology, comparative* Lond., Oxon., Glas.; *philology, romance* Glas.; *philology, studies* Glas.; *phonetics* Lond., Edin., Glas.; *psychology* Lond., Glas.; *psychology, applied* Liv.; *public administration* Birn., Durh., Exn., Hull, Liv., S'ton., Edin., Glas.; *religious knowledge* Lond.; *study of records & administration of archives* Liv.; *theology* Birn., Durh., Leeds, Lond., Manc., Oxon., Wales, St. And.

**LANGUAGES, ETC.** *African languages* Lond., Arabic Durh., Leeds, Lond.; *Bantu languages* Lond.; *Benafsi* Lond.; *bilingual studies* Wales; *Burmese* Lond.; *Celtic studies* Oxon.; *Chinese* Lond.; *Czechoslovak* Lond.; *English for foreign students* Lond.; *English language & literature for overseas students* Exn.; *English studies* Leeds, Edin.; *English studies for overseas residents* Nott.; *foreign languages* Durh.; *foreign languages, modern* Lond., French Wales; *French language* Exn., German language Exn.; *Gujarati* Lond.; *Hebrew* Leeds, Lond.; *Hebrew paleography & epigraphy* Lond.; *Hebrew, teaching of* Leeds; *Hindi* Lond.; *Indian paleography & epigraphy* Lond.; *Indo-Aryan languages, comparative studies* of Lond.; *Iranian* Lond.; *Islamic studies* Edin.; *Japanese* Lond.; *Malay* Lond.; *Marathi* Lond.; *modern languages* Camb.; *Oriental languages* Lond.; *Persian* Lond., Polish Lond.; *Rumanian* Leeds, Lond.; *Sinhalese studies* Camb., Oxon.; *Swedish* Lond.; *Sinhalese studies* Camb., Oxon.; *Spanish* Leeds; *Scandinavian* Liv.; *Tamil* Lond.; *Turkish* Lond.; *Urdu* Lond.; *West African languages* Lond.; *Yiddish* Lond.

**LAW.** *Administrative law & practice* Edin.; *law* Lond., Oxon.; *law, international* Camb., Liv., Manc.; *law, Roman* Camb., Glas.; *legal studies, comparative* Camb.

[continued on p. 908]

UNITED KINGDOM

## UNITED KINGDOM DIRECTORY TO SUBJECTS OF

For an explanation of the symbols used, see p. 302	Birmingham	Bristol	Cambridge	Derham	East Anglia (see p. 302)	Exeter	Hall	Keele	Leeds	Leicester	Liverpool	London (see also pp. 302-303)	Manchester	Manchester College of Science and Technology
Accountancy/Accounting	✓	✓		✓			✓		✓		✓	✓	✓	
African Studies												✓		
Agriculture			✓	✓					✓			✓		
Anatomy	✓	✓	✓	✓					✓		✓		✓	
Anthropology			✓	✓					✓			✓	✓	
Archaeology	✓		✓	✓		✓			✓	✓	✓		✓	
Architecture			✓	✓							✓	✓	✓	
Art/History of Art	✓	✓	✓	✓			✓		✓			✓	✓	
Astronomy			✓									✓		
Bacteriology	✓	✓	✓	✓					✓		✓		✓	
Banking	✓											✓	✓	
Biochemistry	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓
Brewing, Maltng, etc.	✓												✓	
Building											✓			✓
Celtic			✓								✓		✓	
Ceramics									✓					
Chemistry, Colours									✓					✓
Chemistry, Technical														
Commerce	✓										✓	✓		
Criminology									✓			✓		
Dairying														
Dentistry	✓	✓		✓					✓		✓	✓	✓	
Domestic Science		✓										✓		
Drama		✓											✓	
Dutch			✓									✓		
Economic History	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	
Education														
Electronics	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓
Engineering, Aeronautical		✓	✓									✓	✓	
Cosmoel	✓		✓	✓					✓			✓		✓
Civil, Electr., Mech.	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓
Marine/Naval Archit.				✓							✓			
Metallurgy												✓	✓	
Production									✓				✓	✓
Structural	✓		✓	✓					✓				✓	✓

*Note.*—Each university (except East Anglia, Keele, Sussex and York) awards botany, chemistry, classics (Greek and Latin), economics, English, history, medicine. For East Anglia, Keele, Sussex and York see

STUDY (see p. 902)—TABLE OF FIRST DEGREE COURSES

Nottingham	Oxford	Reading	Sheffield	Southampton	Stoke (see p. 902)	York (see p. 902)	Widn	Abertan	Edinburgh	Glasgow	Royal College of Science and Tech- nology, Glasgow	St. Andrews	Edinb	For an explanation of the symbols used, see p. 902
✓			✓	✓			✓	✓	✓	✓		✓	✓	Accountancy/Accounting
✓	✓	✓					✓	✓	✓	✓				African Studies
	✓		✓				✓	✓	✓	✓			✓	Agriculture
	✓						✓	✓	✓	✓			✓	Anatomy
✓	✓						✓	✓	✓	✓			✓	Anthropology
✓							✓	✓	✓	✓			✓	Archaeology
		✓					✓	✓	✓	✓	✓		✓	Architecture
	✓						✓	✓	✓	✓			✓	Art/History of Art
✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	Astronomy
							✓	✓	✓	✓	✓	✓	✓	Bacteriology
✓	✓		✓	✓			✓	✓	✓	✓			✓	Banking
✓	✓		✓	✓			✓	✓	✓	✓			✓	Biochemistry
							✓	✓	✓	✓				Brewing, Malting, etc.
							✓	✓	✓	✓			✓	Building
							✓	✓	✓	✓			✓	Celtic
			✓								✓		✓	Ceramics
									✓	✓	✓		✓	Chemistry, Colour
			✓						✓	✓	✓		✓	Chemistry, Technical
									✓	✓				Commerce
														Criminology
✓		✓				✓		✓	✓	✓			✓	Dairying
			✓						✓	✓		✓	✓	Dentistry
														Domestic Science
														Drama
														Dutch
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	Economic History
			✓			✓	✓	✓	✓	✓		✓	✓	Education
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Electronics
			✓							✓			✓	Engineering, Aeronautical
✓			✓			✓		✓	✓	✓			✓	Chemical
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Civil, Electr., Mech.
									✓	✓				Marine/Naval Archit.
														Metallurgical
✓									✓	✓				Production
✓			✓						✓	✓				Structural

First degrees with honours, or special degrees, in all the following subjects: French, geography, geology, German, history, mathematics, philosophy, p. 902-903

## UNITED KINGDOM DIRECTORY TO SUBJECTS OF

For an explanation of the symbols used, see p. xvii	Birmingham	Bristol	Cambridge	Derham	East Anglia (see p. xvi)	Exeter	Leam	Leeds	Leicester	Liverpool	London (see also pp. xvi-xvii)	Manchester	Manchester College of Science and Technology
Business Management*			S								S		
Ceramics			✓										
Fuel Technology	✓			✓				✓			✓		S
Genetics	✓	✓	✓	✓				✓	✓	✓	✓	✓	
Geology			✓										
Geophysics	✓	✓	✓	✓				✓					
Glass Technology													
History & Philosophy of Science		✓	✓				✓	✓	✓		✓		
Horticulture											✓		
Italian	✓	✓	✓				✓			✓	✓	✓	
Latin-American Studies	✓	✓	✓	✓				✓		✓	✓	✓	
Law	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	
Leather Industries								✓					
Machine Tool / Oceanography				✓			✓			✓	✓		
Mechanics & Surgery	✓	✓	✓	✓				✓		✓	✓	✓	
Metallurgy	✓		✓					✓		✓	✓	✓	S
Microbiology	✓	✓						✓			✓		
Military/War Studies											✓		
Mining/Mag. Engineering	✓			✓				✓			✓		
Nursing	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Nutrition/Food Science								✓			✓		
Oil Technology	✓										✓		
Oriental Studies			✓	✓				✓		✓	✓	✓	
Arabic			✓	✓				✓		✓	✓	✓	
Chinese			✓	✓							✓		
Hebrew	✓	✓	✓	✓				✓		✓	✓	✓	
Japanese			✓								✓		
Paper Science													✓
Pathology	✓	✓	✓	✓				✓		✓	✓	✓	
Pharmacy/Pharmacology								✓		✓	✓	✓	
Physical Education	✓												
Physiology	✓	✓	✓	✓				✓		✓	✓	✓	
Political Science	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Portuguese	✓		✓	✓				✓		✓	✓	✓	

\* Cambridge - Land Economy

STUDY (see p. 902)—TABLE OF FIRST DEGREE COURSES (contd.)

Nottingham	Oxford	Reading	Sheffield	Southampton	Stewart (see p. 902)	York (see p. 902)	Wales	Albion	Edinburgh	Glasgow	Heriot-Watt College of Science and Tech- nology, Glasgow	St. Andrews	Edinb.	For an explanation of the symbols used, see p. 902
														Estate Management
	✓						✓	✓	✓					Fermentary
			✓							✓	✓			Fuel Technology
✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	Genetics
		✓												Geology
		✓								✓				Geophysics
			✓											Glass Technology
	✓		✓	✓				✓					✓	History & Philosophy of Science
✓		✓												Horticulture
		✓	✓					✓	✓	✓	✓			Italian
	✓			✓			✓		✓	✓				Latin-American Studies
												✓	✓	Law
				✓	✓					✓				Leather Industries
			✓	✓			✓			✓				Marine Biol./Oceano- graphy
	✓		✓				✓	✓	✓	✓		✓	✓	Medicine & Surgery
✓	✓		✓				✓		✓	✓	✓			Metallurgy
✓								✓		✓	✓		✓	Microbiology
	✓													Military/War Studies
✓	✓	✓	✓	✓				✓	✓	✓	✓			Mining/Mag. Engineering
✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	Muse
✓		✓								✓	✓			Nutrition/Food Science
														Oil Technology
	✓						✓	✓	✓	✓		✓		Oriental Studies
	✓						✓	✓	✓	✓		✓		Arabic
	✓							✓	✓	✓		✓	✓	Chinese
							✓	✓	✓	✓		✓	✓	Hebrew
	✓													Japanese
														Paper Science
	✓		✓				✓	✓	✓	✓		✓	✓	Pathology
✓	✓								✓	✓	✓	✓	✓	Pharmacy/Pharmacology
														Physical Education
✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	Physiology
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	Political Science
	✓		✓				✓			✓				Portuguese

first degrees with honours, or special degrees, in all the following subjects—  
French, geography, geology, German, history, mathematics, philosophy,  
pp. 902-903.



For an explanation of the symbols used, see p. 902	Birmingham	Bristol	Cambridge	Durham	East Anglia (see p. 902)	Exeter	Gloucester	Leeds	Leicester	Liverpool	London (for able to university)	Manchester	Manchester College of Science and Technology
Poultry Husbandry													
Psychology	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Scandinavian Studies			✓	✓			✓	✓				✓	
Slavonic & other East European Studies	✓		✓									✓	
Russian	✓			✓		✓	✓			✓	✓	✓	
Sociology/Social Studies	✓		✓	✓		✓	✓			✓	✓	✓	
Spanish	✓	✓	✓	✓		✓	✓			✓	✓	✓	
Statistics	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓
Textiles								✓					✓
Theology/Biblical Studies	✓	✓	✓	✓		✓	✓	✓			✓		
Town & Country Planning*				✓						✓		✓	
Veterinary Studies		✓	✓							✓	✓		

\* Durham—Land Use Studies

Note—Each university (except East Anglia, Keele, Sussex and York) awards botany, chemistry, classics (Greek and Latin), economics, English, physics, zoology. For East Anglia, Keele, Sussex and York, see

continued from p. 903]

## Education

*Art teacher's* Durh., Lond., Manc., S'ton.,  
*child psychology* Manc., *child service* Burn.; *education*  
 all univs. (except E. Anglia, Sussex and York); *educator*,  
*adult* Manc., Nott., *educational guidance* Manc.,  
*educational psychology* Birm., Manc., Glas.;  
*educational studies* Leeds, Nott., Edin.; *education*  
*for overseas teachers* Durh.; *education, health* Lond.,  
*education of backward children* Leeds, Nott.,  
 Wales; *education of handicapped children* Durh.,  
 Lond., Manc.; *education of young children* Durh.,  
 education, physical Leeds; *education, primary*  
 Leeds, Nott.; *education, religious* Leeds, Nott.;  
 education, rural R'dg.; *education, secondary* Durh.,  
 Leeds, Nott.; *English educational thought &*  
*practice* Lond.; *psychology of childhood* Burn.;  
*teacher's* Manc.; *teachers of educationally sub-*  
*normal children* Birm.; *teachers of blind children*  
 Birm., *teachers of the deaf* Manc.; *teaching of*  
*English as a foreign language* Lond.; *teaching of*  
*English overseas* Manc.; *teaching of handicapped*  
*children* Liv.

## Medicine (incl. Dentistry and Veterinary Medicine)

*Applied parasitology & entomology* Lond.;  
*clinical psychology* Edin., Glas.; *dental surgery*

(L.D.S.) Brist., Leeds, Manc., Sheff.; *dentistry*,  
*public St. And.*; *medical illustration* Edin.; *medical*  
*services administration* Edin.; *mental health*  
 Lond.; *nurse teacher's* Leeds; *nurse-tutor's*  
 Edin., *nursing* Leeds, Lond.; *nursing, com-*  
*munity* Manc.; *nursing studies* Edin.; *pathology*,  
*clinical* Lond., *psychiatry* Edin.; *psychological*  
*medicine* Durh., Leeds, Lond., Manc.; *public*  
*health* Brist., Durh., Leeds, Liv., Lond., Manc.,  
 Sheff., Wales, Aberd., Edin., Glas., St. And.,  
 Belf.; *radiodiagnosis* Liv., Edin.; *radiotherapy*  
 Liv., Edin.; *nurse-tutor's* Lond.; *tropical*  
*medicine & hygiene* Liv., Lond., Edin.; *tropical*  
*veterinary medicine* Edin.; *tuberculosis diseases*  
 Wales; *veterinary hygiene* Liv.; *veterinary state*  
*medicine* Edin.

## Science

*Bacteriology* Lond., Manc.; *bacteriology &*  
*microbiology* Brist.; *biology* Edin.; *chemical micro-*  
*biology* Camb.; *chemistry* Camb.; *diseases* Lond.;  
*genetics, animal* Edin.; *mathematical physics* Burn.,  
 Wales; *mathematical statistician* Birm., Camb.;  
*mathematical statistics & computational analysis*  
 Wales; *mathematics, actuarial* Edin.; *microbiology*  
 Sheff.; *microgalanatology* Wales; *natural history*  
 Lond., *numerical analysis* Lond., Manc., Glas.;  
*numerical analysis & automatic computing* Camb.,  
 Durh., S'ton., physics Camb., Manc.; *plant*  
*biochemistry* Camb., *statistics* Manc., Oxon.,  
 Wales, Aberd.

STUDY (see p. 902)—TABLE OF FIRST DEGREE COURSES (contd.)

Nottingham	Oxford	Reading	Sheffield	Southampton	Stroud (see p. 902)	York (see p. 902)	Wales	Aberdeen	Edinburgh	Glasgow	Royal College of Science and Tech- nology Glasgow	St. Andrews	Twickenham	For an explanation of the symbols used, see p. 902
✓	✓	✓	✓					✓	✓	✓		✓	✓	Poultry Husbandry
								✓	✓	✓			✓	Psychology
								✓	✓	✓				Scandinavian Studies
✓	✓								✓	✓				Slavonic & other East European Studies
✓									✓	✓				Russian
✓		✓				✓	✓			✓			✓	Sociology/Social Studies
✓									✓	✓			✓	Spanish
✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	✓	Statistics
											✓		✓	Textiles
✓	✓						✓		✓	✓		✓	✓	Theology/Biblical Studies
														Town & Country Plan- ning
									✓	✓			✓	Veterinary Studies

first degrees with honours, or special degrees, in all the following subjects: French, geography, geology, German, history, mathematics, philosophy, pp. 902-903

§ Courses temporarily suspended.

#### Social Studies

*Criminology* Camb.; *social work* Edin.; *personal management* Lond., Wales; *political, economic & social studies* Nott.; *psychiatric social work* Edin.; *psychiatric social workers'* Manc.; *public & social administration* Oxon.; *social administration* Exe., Liv., Wales, St. And.; *social science* Liv., Wales; *social science & administration* Lond.; *social studies* Brist., Durh., Hull, Leeds, Lond., Sheff., St. An., Belf.; *social studies, applied* Brist., Durh., Leic., Lond., Nott., Wales; *social studies in tropical territories* Lond.; *social study* Birm., Edin., Glas.; *social work* Birm., Exe.; *social workers in mental health* Lond.; *sociology* Glas.; *sociology, industrial* Liv.; *theological & social studies* Nott.; *youth leadership & organisation* Wales; *youth work* Manc.

#### Technology & Applied Science

*Architecture* Camb., Durh., Lond., Manc., Sheff.; *Wales, building services* Liv.; *ceramics* Leeds; *chemistry, colour* Leeds; *chemistry, technical* Edin.; *civil design* Liv., Edin.; *concrete technology* Leeds; *decoration* Lond.; *dyeing* Leeds; *dynamics, applied* Edin.; *electrical machines* Birm.; *electronics* Durh., St. An.; *electronics, applied* Durh.; *electronics & radio* Edin.; *engineering* Camb., Liv., Lond., Wales, Glas.; *engineering*,

*chemical* Birm., Camb., Leeds, Lond., Manc., Wales; *engineering, civil* Birm.; *engineering, control* Camb.; *engineering, electrical (infrastructure engineering)* Birm.; *engineering, electrical power* Durh.; *engineering, foundation* Birm.; *engineering, gas* Leeds; *engineering, highway* Birm.; *engineering, highway & traffic* Durh.; *engineering, mechanical (thermodynamics & related studies)* Birm.; *engineering, mining* Leeds; *engineering, production* Durh., Manc.; *engineering production & management principles* Birm.; *engineering, public health* Durh.; *fuel science* Leeds; *fuel technology* Durh., Nott.; *fuel technology & chemical engineering* Sheff.; *geophysical surveying* Edin.; *glass technology* Sheff.; *landscape architecture* Edin.; *landscape design* Durh., Lond.; *leather manufacture* Leeds; *metal & brassing* Birm.; *mechanics, applied* Sheff.; *metallurgy* Camb., Leeds, Lond., Wales; *metallurgy, industrial* Birm.; *metallurgy (iron & steel)* Sheff.; *metallurgy, physical* Sheff.; *mineral dressing & coal preparation* Leeds; *mining* Birm., Lond., Sheff.; *mining, metalliferous* Wales; *paper technology* Manc.; *photogrammetry* Lond.; *physics, technical* R'dg.; *preservation & restoration of historical buildings* Lond.; *structural design* Durh.; *surveying* Lond.; *technology* Manc.; *textile chemistry* Manc.; *textile industries* Leeds; *theory of structures & strength of materials* Camb.; *town & country planning* Manc.; *town planning* Durh., Lond.

FURTHER INFORMATION (see also Appendix VI and the 'Publications' section in each university entry below). The following select list of official and other publications may be consulted for further information on the topics dealt with above.

University Grants Committee.

*University Development from 1935 to 1947* (H.M.S.O., 1948).

*University Development: Report on the Years 1947 to 1952* (H.M.S.O., 1953, cmd. 8875).

*University Development, 1952-1957* (H.M.S.O., 1958; cmd. 534).

*University Development. Interim Report on the Years 1957 to 1961* (H.M.S.O., 1962, cmd. 1691).

*Returns from Universities and University Colleges in receipt of Treasury Grant: Academic Year 1960-61* (H.M.S.O., 1962, cmd. 1855), earlier annual reports are also available.

Ministry of Education.

*Education in 1961, being the Report of the Ministry of Education for England and Wales* (H.M.S.O., 1962, cmd. 1737), together with *Statistics of Education, 1961, Part 1 and Part 2* (separately published, H.M.S.O., 1962).

Scottish Education Department.

*Education in Scotland in 1961: a Report of the*

*Secretary of State for Scotland* (H.M.S.O., 1962; cmd. 1673).

*Public Education in Scotland* (H.M.S.O., 1958).

*Report of the Ministry of Education (N.I.), 1960-61* (H.M.S.O., 1962, cmd. 435).

*The Universities of Europe in the Middle Ages*, by H. Rashdall (3 vols., ed. F. M. Powicke and A. B. Emden, Oxford U.P., 1936).

*Universities in Britain*, by Sir James Duff (for the British Council: Longmans, Green & Co., London, 1959).

*Higher Education in the United Kingdom. a Handbook for Students from Overseas and their Advisers* (for the British Council and the Association of Universities of the British Commonwealth: Longmans, Green & Co., London, 1962).

*Five Universities*, by W. H. G. Armytage (Erebus Press, London, 1955).

*Red Brick University*, by Bruce Truscot (Pelican Books, 1951).

*Universities, American, English, German*, by A. Fleener (Oxford U.P., 1930).

*University Extension*, by W. H. Draper (Cambridge U.P., 1923).

*The English Universities and Adult Education*, by S. G. Raybould (London, 1952).

*History of University Reform*, by A. J. Tillyard (Cambridge U.P., 1913).

STATISTICS. For statistical information see above, especially the sections on 'Finance' and 'Students'. For particulars of overseas students enrolled at universities in the United Kingdom, see Appendix IV.

POSTGRADUATE AWARDS. The Association of Universities of the British Commonwealth publishes every two years a 150-page booklet entitled *United Kingdom Postgraduate Awards (Fellowships, Scholarships, Grants, etc.)* which contains lists of

'open' awards tenable at U.K. universities and of the more important 'open' awards tenable outside the United Kingdom by U.K. graduates. The eleventh (1962-64) edition was published in October 1962, price 5s.

# ENGLAND AND WALES

[Information compiled as at 21/8/62]

## UNIVERSITY OF BIRMINGHAM\*

Founded 1900; previously established as Mason Science College 1880,  
and incorporated as Mason University College 1898

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Telephone: Selly Oak 1301

VICER-CHANCELLOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. THE EARL OF AVON, KG, MC, Hon. DCL Oxon & Durh, Hon. LLD  
Belf., Brit., Calif., Camb., Col., Denver, Leith, McG., Sheff., Tor & Burn.

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Melb., Paui., McG., Nfld., Pauc. & Abnd., Hon. DSc Syd., Hon. DCL Oxon., FRCP, FRCPed,  
FRACP

VICE-PRINCIPAL—Professor K. MATTHEW, CBE, DSc Lond., MSc, FRs

REGISTRAR—G. TEMPLEMAN, MA Lond., PhD, FSA

—(since April 1, 1961) Sir G. B. CARLTON, CMG, BA Manc.

SECRETARY—G. L. BARNES, MA, FCA

BURRIS—C. P. THOMPSON, CMG, OBE, BSc

LIBRARIAN—K. W. HUMPHREYS, BLitt MA Oxon.

SENIOR WOMAN TUTOR—NANCY A. MACFARLANE, MA Oxon.

## TEACHING STAFF

[† = Part-Time]

### Accounting and Administration

Cousins, D., BCom, FCA  
Gambidge, T. E., BCom, Durh.  
Turner, B. C., MCom, FCA

Prof.  
Lectr.  
† Lectr.

Endocrinology  
Krohn, P. L., BA BM BCh Oxon  
Eckstein, P., MA MD Camb., DSc  
Thames, G. H., BSc PhD Lond.  
Mandl, Anita M., BSc Lond., PhD DSc

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.

3 Res. Fellows

### Anatomy

Zuckerman, Sir Solly, CB, MA Oxon & Cape  
T., DSc Lond., Hon. DUBordeaux, MD,  
FRS  
Dallas Ross, W. P., MA MB BChir Camb.  
Sr. Lectr., Tutor

Micro-Anatomy  
Knowles, Sir Francis, Bt, MA DPhil Oxon.  
Rogers, A. W., BSc PhD Lond.  
1 Res. Fellow

Sr. Lectr.  
Lectr.

### Comparative Anatomy and Anatomy for Dental Students

Ashton, E. H., PhD DSc  
Oxnard, C. E., BSc MB ChB PhD  
Hicken, P., BSc MB ChB

Sr. Lectr.  
Lectr.  
Tump Lectr.

### Neuro-Anatomy

Eayrs, J. T., PhD DSc  
(Neuro-endocrinol) Prof.  
Holmes, R. L., MSc MB ChB PhD Leeds

Sr. Lectr.  
Sr. Lectr.

\* Member of the Association of Universities of the British Commonwealth

- Darlington, D., MB ChB Lectr  
 Glass, A., BSc MB ChB Lectr
- Topographical Anatomy and Embryology**  
 Green, S. H., MB ChB Sr Lectr  
 Lasovsk, F. P. Lectr  
 Hutton, J. F. K., MB ChB Glas.
- (Radiol. A) † Lectr  
 Howarth, P. H., MA MB BChir Camb, MRCP (Radiol. A) † Lectr.  
 Baker, R. H., MB ChB Sheff Temp Lectr  
 Chaplin, D. M., MB ChB Temp Lectr  
 Hocken, P. B., MB ChB Temp Lectr  
 Johnson, C. J., MA MB BChir Camb Temp Lectr
- 1 Res. Fellow
- Ancient History and Archaeology**  
 Titch, F. J., PhD *Hesdel.*, MA Reader  
 Gelling, P. S., MA Camb, PSA Lectr  
 Tomlinson, R. A., MA Camb Lectr
- 1 Res. Fellow
- Art (Fine Arts)**  
 Waterhouse, E. K., CBE, MA Oxon., AM Fina, FBA  
 Barber Prof; Dir., Barber Inst. of Fine Arts  
 Garlick, K. J., MA Oxon, PhD Lectr  
 James, R. E. W., MA Camb Lectr  
 Downes, J. K., BA PhD Lond  
 Hon. Lectr, Asst. Librarian
- 1 Res. Fellow
- Biochemistry, see also Physiol.**  
 Perry, S. V., BSc Lond, PhD Camb. Prof., Hd. of Dept.  
 Norris, F. W., PhD Lond., DSc, FRIC (Plant B) Reader  
 Chalfinor, S. W., DSc Edu, PhD, FRIC Sr. Lectr
- Hough, J. S., BSc Manc., PhD Sheff Sr Lectr  
 Kalka, Deaa, PhD Vienna Lectr  
 Kekwick, R. G. O., BSc PhD Lond. Lectr  
 Klumperer, H. G., PhD Sheff., MA BM BCh Oxon. Lectr
- Teale, F. W. J., BSc Lond, PhD Lectr  
 Walker, D. G., MSc PhD Lond., FRIC Lectr  
 Brown, A. P., BA Camb., PhD Nott Lectr
- Making & Brewing**  
 Adrien Brown Prof  
 Hough, J. S., BSc Manc., PhD Sheff Sr Lectr.-in-Charge
- Botany**  
 Heslop-Harrison, J., PhD Belf, DSc Durh, FLB Mason Prof.  
 Hawkes, J. G., MA PhD ScD Camb. (Taxonomic B) Prof
- Paul, L. W., BSc Lond, PhD Glas Sr Lectr  
 Harold, C. E., BSc Lond., PhD Camb. Lectr  
 Greene, S. W., BA Dub Lectr  
 Idle, D. B., BSc PhD Lond. Lectr  
 Davies, M. E., BSc PhD Lectr  
 Wilkins, D. A., BSc PhD Lond Lectr  
 Butler, Gillian M., BA PhD Camb. Asst. Lectr
- Keyworth, W. G., BSc PhD Lond. Recog. Lectr.  
 1 Res. Fellow
- Brewing, etc., see Biochem.**
- Chemistry**  
 Stacey, M., PhD DSc, FRM Mason Prof., Hd. of Dept.  
 Robb, J. C., PhD Aberd., DSc (Phys. C) Prof.  
 Tatlow, J. C., PhD DSc (Org. C) Prof.  
 Belcher, R., PhD DSc (Analyt. C) Prof.  
 Gilbert, G. A., MA PhD Camb (Bio-Phys. C) Reader
- Bevington, J. C., MA PhD Camb, DSc (C. of Polymers) Reader  
 Sheridan, J., MA DPhil Oxon., DSc (Phys. C) Reader
- Randles, J. E. B., MA Camb, BSc Lond, DSc Sr. Lectr.  
 Jones, A. S., PhD DSc Sc. Lectr.  
 Barkes, S. A., PhD DSc Sc. Lectr.  
 Foster, A. B., PhD DSc Sr. Lectr.  
 Batty, W. R. H., BSc Lond Lectr., Tutor  
 Allen, P. E. M., BSc PhD Lectr.  
 Forbes, E. J., BA BSc DPhil Oxon Lectr.  
 Gowenlock, B. G., MSc PhD Manc Lectr  
 Patnick, C. R., BSc PhD Lectr.  
 Peaker, F. W., BSc PhD Leeds Lectr  
 Small, R. W. H., BSc Lond, PhD Lectr  
 Stephens, R., BSc PhD Lectr.  
 Thomas, L. F., BSc PhD Lectr.  
 West, T. S., BSc Aberd., PhD Lectr.  
 Whitlam, G. H., BSc PhD Manc. Lectr.  
 Burdon, J., BSc PhD Lectr.  
 Pencoek, R. D., BSc PhD Durh., DSc Lectr.  
 Stephen, W. I., BSc Aberd., PhD Lectr.  
 Morgan, K. J., MA BSc DPhil Oxon Lectr.  
 Lechle, R. S., BSc PhD Lectr.  
 Hobson, J. D., BSc PhD Sheff Lectr.  
 Mejer, J. R., MSc PhD Lond. Lectr.  
 Rogers, N. A. J., MA DPhil Oxon. Lectr.  
 Brown, J. K., BA PhD Camb. Lectr.  
 Simons, J. P., BA PhD Camb. Lectr.  
 Wells, C. F., BSc PhD Leeds Lectr.  
 Webber, J. M., BSc PhD Lectr.  
 Brunscombe, J. S., BSc PhD Lectr.  
 Pedler, A. E., BSc PhD Brit. Lectr.  
 Coe, P. L., BSc PhD Asst. Lectr.  
 Macdonald, Alison, BSc Aberd., MSc PhD Member of Staff  
 Edwards, J. A. Member of Staff
- 14 Res. Fellows
- Classics, see Greek, Latin**
- Commerce, see also Acctg, Econ. Hist., Econ**  
 Walker, G., MA Oxon., DLitt Prof.  
 Pictou, J. G., MCom. (Indust. Econ.) Sr. Lectr  
 Ross, N. S., PhD Durh, MA (Employer-Employee Relns.) Sr. Lectr  
 Samuels, J. M., BCom. Asst. Lectr.  
 Smith, Barbara M. D., BCom Supervisor, Works Visits

## Commercial Law, see Law

## Dentistry

MacGregor, A. B., MA MD BChir Cantab.,  
FDSRCS

(D. Surg.) John Humphreys Prof., Dir.  
of Dental Studies

Osborne, J., PhD *Sheff.*, MDS, FDSRCS  
(D. Prost.) Prof.; Tutor, Dep. Dir. of  
Dental Studies

(D. Pathol.) Prof.

Tavener, R. W. H., BDS  
(Oper. D. Surg.) Sr. Lectr.

Whitehead, F. I. H., FDSRCS  
(Oper. D. Surg.) Sr. Lectr.

Shevelton, D. S., BSc BDS, FDSRCS  
(Oper. D. Surg.) Sr. Lectr.

Marland, E. A., PhD BDS  
(D. Pathol.) St. Lectr., Actg. Hd. of  
Dept.

Fox, E. C., MD *Vienne*  
(Oper. D. Surg.) Sr. Lectr.

Grundy, J. R., BDS  
Ashken, E. H., BSc PhD DSc  
(Anat. for D. Students) Sr. Lectr.

Foster, T. D., MDS, FDSRCS  
(Child D. & Orthod.) Sr. Lectr.

Shaw, J. G., FDSRCS (Oper. D. Surg.) Lectr.

Brown, R. M., BSc BDS PhD  
Fisher, F. J., BDS  
Friend, L. A., BDS

Whitcroft, J. F., LDS (Oper. D. Surg.) Lectr.

Newman, F. A., LDS (Oper. D. Surg.) Lectr.

Calverley, B. C., MB ChB, FDSRCS  
(Oper. D. Surg.) Lectr.

Wigley, F. E., LDS (Oper. D. Surg.) Lectr.

Line, E., BDS (Oper. D. Surg.) Lectr.

Jennens, P. E., LDS (Oper. D. Surg.) Lectr.

Shrewsbury, N. G., BDS (Oper. D. Surg.) Lectr.

Halford, R. S., BDS (Oper. D. Surg.) Lectr.

Van Rosy, O. R. C., BDS  
(Oper. D. Surg.) Lectr.

Grady, T. C., BDS *Manc.* (D. Prost.) Lectr.

Tomin, H. R., BDS (D. Prost.) Lectr.

Duffield, P., DFC, BDS (D. Prost.) Lectr.

Corbett, M. Elisabeth, BDS (D. Histol.) Lectr.

Gough, N. G., BDS *Durh.* (D. Pathol.) Lectr.

Davidson, P. H., BSc MD, FRCP  
(Med. for D. Students) Lectr.

Gourevitch, A., MC, MB ChB, FRCS  
(Gen. Surg. for D. Students) Lectr.

Nutt, Margaret E., BSc *Leam.*, PhD  
(Physiol.) Lectr.

James, Sybil P., PhD DSc  
(Physiol.) Lectr.

James, W. W., OBE, MCh, FRCS, FDSRCS  
Hon. Res. Fellow, Hon. Member of  
Staff

## Res. Fellows

Clinical Lecturers at Dental Hospital

Day, A. J. W., BDS, FDSRCS

Meacham, S. F.

Seamster, A. F., MDS

Chendimen, A. G., LDS

Knight, J. S., BDS PhD

Highway, H. E., BDS  
Mitchell, R. G., MB ChB *Manc.*, FDSRCS

Univ. Clinical Lecturers in D. Surg. at  
Teaching Hospital

Walker, R. O., FDSRCS

Pusey, R. F., BDS *Leam.*

Hoggins, C. S., BDS, FDSRCS

Clinical Demonstrators in D. Surg.

Bate, W. J., LDS

Draycott, R. J., LDS *Liv.*

Tinkler, S., LDS

Cond, J. R., BDS

Murphy, W., LDS

Robinson, R. C., LDS

Clinical Tutors in D. Surg.

Baume, A. L., LDS

Hall, Sheila M., LDS

Kitchen, J., LDS

Norman, N., BDS

Quinn, Doris, MB ChB

Wright, T. J., BDS

Assistant Clinical Tutor in D. Surg.

Menendez, D. M., LDS *Cam.*

Econometrics and Social Statistics, see  
also Maths.

Walters, A. A., BSc(Econ) *Leam.* Prof.  
Wise, J., BSc(Econ) PhD *Leam.* Lectr.

Morris, R. N., MScEcon Lectr.

Fisher, G. R., MA *Cambr.*, BCom Assl Lectr.

Wilkes, F. M., BScEcon Temp Lectr.

Mitchell, Christine, BScEcon

Economic History, see also Comm., and  
Hist.

Court, W. H. B., MA *Cambr.* & *Hare.*, MCom Prof.

Wrightman, D. R., BSc(Econ) *Leam.*, PhD Sr. Lectr.

Evered, D. E. C., BSc(Econ) *Leam.*, PhD Sr. Lectr.

Burley, K. H., BA PhD *Leam.* Lectr.

Economics, see also Comm., Econ. Hist.

Hutchinson, T. W., MA *Cambr.* Mitrin Prof.

Harbury, C. D., BCom *Leam.*, PhD *Wales* Lectr.

Bennett, E., MCom (Internat. E.) Lectr.

McManus, M., BCom PhD Lectr.

Rimmer, D., BA *Sheff.*

Economics and Institutions of the  
U.S.S.R.

Baykov, A., JurD *Prague*, PhD

(Russian Econ. Studies) Prof.

Davies, R. W., BA *Leam.*, PhD Sr. Lectr.

Smith, R. E. F., MA *Leam.* Lectr.

Barker, G. R., MA *Cambr.*, MCom

(Russian Econ. Studies) Lectr.

Koutassoff, Elisabeth, *Leam.* Lectr.

(Russian Lang.) Lectr.

Bliss, Oscar

Res. Fellow

**Education**, see also *Inst. of Educn.*, p. 922

Jeffreys, M. V. C., CBE, MA Oxon. & *Birm*  
Prof., Dir. of Univ. Inst. of Educn.

Peel, E. A., BSc Lectr., MA PhD DLit Lond.  
Prof., Hd. of Dept. & of Dept. of Child  
Study

Sparrow, W. J., BSc MA PhD  
Sr Lectr., Dep. to Hd. of Dept. for  
Postgrad. Tig

Pringle, Mrs. Mia L. K., BA PhD Lond  
Sr Lectr., Dep. Hd. of Dept. of Child  
Study

Flood, W. E., MA Camb., PhD Sr Lectr

Burroughs, G. E. R., BSc Lond., PhD Sr Lectr

Curt, W., MA EdB Glas. Sr Lectr

Cheetham, Grace, BSc Wales Lectr.

Ewing, Nancy R., MA Edu. Lectr.

Goodborn, Mrs. E. Joyce (Art & Crafts) † Lectr.

Guliford, R., BA Lond. Lectr.

Hallworth, H. J., MA Lond. Lectr.

Honeybone, H. C., BA Lond. Lectr.

James, B. C. L., MA Oxon. Lectr.

Jull, Mrs. Estelle N., BA Oxon.,  
MED Durb. Lectr.

Law, Elizabeth, BA Manc. Lectr.

Maddox, H., BA PhD Lond. Lectr.

Oliver, J. N., BSc Suff. Lectr.

Payne, Ethel R., MSc Wales Lectr.

Phillips, C. J., BA Lond. Lectr.

Roberts, Christine D. Lectr.

Storer, W. O., MA Camb. Lectr.

Thurburn, A., MA Edu. Lectr.

Tubbs, A. E., BSc(Econ) Lond. Lectr.

Williams, Myfanwy, DipPsych Lond. Lectr.

Wilks, Mrs. Vera W., DipSocStud Lond. Lectr.

Wilkinson, A. M., BA Lond., PhD Manc. Lectr.

Beard, Ruth M., MSc MA PhD Lond. Lectr.

Brookhurst, J. B., BA Nott. MA Lectr.

Dobbs, Skeff. (Play Production) Lectr.

Fishman, M. (Play Production) Lectr.

Dalton, R. H. F., BA Lond. Lectr.

Moore, S., BA Lond. Lectr.

Sarner, R., BSc(Econ) BA Lond. Lectr.

Leith, G. O. M., BA Durb., MA Lond. Lectr.

Cox, C. E., BD MTh Lond. (Div.) Lectr.

Lamb, Phyllis J., BSc Manc. Temp. Lectr

### Electron Physics

Sayers, J., MSc Belf. & Birm, PhD Camb. Prof.

Alfrey, G. F., MA DPhil Oxon. Lectr.

### Engineering, Chemical

Davies, J. T., MA Camb., MSc N.Z.,  
DSc Lond. Prof., Dir. of Dept.

Ellis, S. R. M., MSc N.Z., PhD, FRIC Reader

Nutt, C. W., BSc PhD Brist. Reader

Long, R., BSc PhD Leeds Sr Lectr.

Crooks, W. M., BSc Lond., PhD Sr Lectr.

Gilmour, H., BSc Glas., FIP Sr Lectr.

Blakebrough, N., MScTech PhD Manc. Sr Lectr.

Bransom, S. H., BSc PhD Brist. Lectr.

Husband, W. H., BSc Manc., PhD Lectr.

Charles, E. J., BSc PhD Lectr.

Porter, C. R., BSc PhD Lond. Lectr.

Botterill, J. S. M., BSc PhD Lectr.

Carter, J. W., BSc Lond., FRIC Lectr.

Barker, P. E., BSc PhD Lectr.

Mielan, L. G., BSc Lectr.

Porter, K. E., BSc Lond. Lectr.

Mohr, F., PhD Lectr.

Jeffreys, G. V., MSc, FRIC Lectr.

Oliver, D. R., BSc PhD Lectr.

Bott, T. R., BSc Lectr.

Cardew, M. H., BSc PhD Brist. Lectr.

King, M. B., MA Camb., PhD Lond. Lectr.

Pittway, G. S., BSc Lectr.

Wall, C. G., BSc PhD Lectr.

Jenson, V. G., BSc PhD Lectr.

Shearn, R. B., BSc PhD Lectr.

### Engineering, Civil

Redshaw, S. C., DSc Wales, PhD Lond.,  
FRAES Beale Prof.

Kelhuszewski, J., DIC, PhD Lond., FGS  
(Highway & Traffic E.) Prof.

Essery, I. T. S., MC, MSc Sr. Lectr., Tutor

Chapman, T. K., MA Camb., PhD Sr Lectr.

Hobbs, F. D., DIC  
(Highway E.) Paviers Sr Lectr.

Richardson, B. D., BSc Lectr.

Thomas, I. E., DIC, BSc Wales, MS  
PhD Northwestern Lectr.

Vaisey, Gillian, BSc Lond., MA Camb. Lectr.

Dunn, C. S., (Highway & Traffic E.) Lectr.

Porter, J. W., BSc Lond., MS Race Lectr.

Hamlin, M. J., DIC, BSc Brist. Lectr.

Bird, R. G., BSc Cape T. Lectr.

Rushton, K. R., BSc Manc., PhD Lectr.

Miller, A. J., MSc PhD Manc. Lectr.

Lees, G., BSc Manc., FGS  
(Road Materials) Lectr.

Reilly, P. J., BSc Lectr.

Newland, R. M., MA Camb., MSc Lectr.

Swinnell, P., BSc Brist. Asst Lectr.

Borg, N., MICE Hon Lectr.

Ginsburg, L. Hon Lectr.

Sharp, D. R., MBE, DipTP Lond., BSc,  
MICE Hon Lectr

12 External Lectrs.

### Engineering, Electrical

Tucker, D. G., DSc Lond. Prof., Hd. of Dept.

Allinson, J. T., MSc Manc. Prof.

Welby, V. G., BSc PhD Lond. Sr Lectr.

Griffiths, J. W. R., BSc Brist., PhD Sr Lectr.

Henderson, J. G., BSc Durb. Sr Lectr.

Shearman, E. D. R., BSc Lond. Sr Lectr.

Wright, G. T., PhD DSc Sr Lectr.

Jarvis, A. P., MSc Lectr.

Hudson, J., MEng Lit. (Mining) Lectr.

Layton, J. M., BSc Lond., BA Oxon. Lectr.

Chuley, J. C., MSc Lectr.

Kay, L., BSc PhD Durb. Lectr.

Howson, D. P., BSc Brist., MSc Lectr.

Smith, I. R., BSc PhD Brist. Lectr.

Maclean, T. S. M., BSc Glas., PhD Edin. Lectr.

Couper, D. C., MSc Lectr.

Devies, D. E. N., MSc PhD  
3 Res Fellows

Lectr. Rugby, Margery M., MA Glas., BLitt Oxon.

Bradbury, M. S., MA Lond.  
Adams, Vera, BA Lond.  
(Foreign Students) Tutor

### Engineering, Mechanical

Tobias, S. A., MA Camb., PhD DSc Edin.  
Chance Prof., Hd of Dept.

Bannister, F. K., BSc Lond. & Leeds, PhD  
(Thermodynamics) Prof.

Railly, J. W., MSc Lond., PhD  
Lectr. Mather, F., BSc Glas.

Lanning, W. A., BSc Glas.  
Lectr. Mullis, B., BSc PhD

Wright, E. H., BSc PhD  
Lectr. Hayes, S. V., BSc

Allen, F. D., MA Camb., Lectr., Dep for Admin  
Mather, F., BSc Glas.

Amun, F., BSc  
Lectr. Trengrouse, G. H., BSc

Foster, K., BA Camb.  
Lectr. Kwiatkowski, A. W., BSc

Bakhter, F., MSc PhD  
Lectr. Richmond, F., BSc Lond., PhD Macc

Scott, B. F., BSc  
Lectr. Barrett, J. F., BA PhD Camb.

Blader, F. B., BSc  
Asst. Lectr. Boothroyd, R. G., BA Camb., MSc

2 Res. Fellows

### Engineering Production

Dudley, N. A., BSc Lond., PhD  
Lucas Prof., Hd of Dept. & Dir of Inst

Benson, F., BA Lond., PhD  
(Operational Res.) Sr

Grisbrook, H., BSc  
Lectr. Haley, K. B., BSc PhD

Corlett, E. N., BSc Lond., MEng Sheff.,  
PhD

Sury, R. J., BSc  
Lectr. Goodve, Sir Charles, OBE, DSc Sheff.,

FRS (Operational Res.) Hon. Lectr.  
Rivett, B. H. P., MSc Lond.

Vadja, S., DrPhil Vienna  
(Operational Res.) Hon. Lectr.

4 Res. Fellows

### Institute for Engineering Production

Edmondson, F., BSc  
Dep. Dir. Jenney, B. W., BA Lond.

Staff Tutor

### English

Spencer, T. J. B., BA PhD Lond.  
Prof., Hd of Dept.

Hoggart, H. R., MA Leeds  
Prof. Sheppard, I. A., MA

Shepherd, G. T., MA Lond.  
(E Lang.) Sr

Duncan-Jones, Mrs. Elise, MA Camb.  
Lectr. Smith, H. A., BA PhD

Macfarlane, Nancy A., MA Oxon.  
Lectr. Brewer, D. S., MA Oxon., PhD

Rees, Mrs. Joan, MA Lond., BA  
Lectr. Brown, J. R., MA BLitt Oxon., PhD

Lodge, D. J., MA Lond.  
Lectr.

### Fine Arts, see Art

### French

Mackenzie, F., M.A.N.Z. & Brim., DScL Paris,  
Hon. DUMontpellier

Milner, J. M., MA Leeds  
Sr Lectr. Tillett, Margaret G., MA R'dg., LdsL Paris

Lectr. Hathaway, E. J., BA

Helton, Mrs. Margaret, BA Oxon.  
Lectr. Williamson, J. C., BA Not

Celland, Margaret M., MA Manc.  
Lectr. Nicholas, B. L., MA BLitt Oxon.

Lectr. Jemach, P. D., BA Lond., PhD S'ton  
Lectr. Watson, G. D., BA Adel., DUParis

Asst. Lectr. Hallmark, R. E., BA Sheff.  
Asst. Lectr. Brook, L. C., BA Brist.

Asst. Lectr. Argellier, Simone  
(Colloquial F) Asst.

Best, Mrs. M.  
(Colloquial F) Asst.

Llopis, R. G. M.  
(Colloquial F) Asst.

Heivooet, Y.  
(Colloquial F) Asst.

### Genetics

Mather, K., CBE, DSc Lond., MSc, FRS  
Prof. John, R., MSc PhD Wales

(Cytol) Lectr. Lawrence, M. J., BSc PhD Wales  
Lectr. Jones, D. A., MA Camb.

Asst. Lectr. Philp, J., BSc Glas., PhD Lond.  
(Plant Breeding) Recog. Lectr.

Jonks, J. L., BSc PhD  
Hon. Lectr.

### Geography

Linton, D. L., DSc Lond.  
Prof. Thorpe, H., MA MLitt Durh., PhD

(Historical G.) Reader  
Warwick, G. T., MBE, BSc Brist., PhD

Sr. Lectr. Johnson, B. L. C., PhD Lond., MA

Sr. Lectr. Stedman, M. B., MA Camb.

Lectr. Jones, I. E., BA Wales

Lectr. Stringer, E. T., BSc PhD

Lectr. Dunkin, R. A., BA PhD Durh.

Lectr. Morgan, W. B., MA Oxon., PhD Glas.

### Geology with Geophysics

Shotton, F. W., MBE, MA ScD Camb.,  
FRS, FGS

Prof. Griffiths, D. H., MSc Manc., PhD, FGS  
Sr. Lectr.

Lacy, E. D., BSc Lond., FGS  
Sr. Lectr.



- Hardie, W. G., BSc Lond, FGS Lectr.  
 Garrett, P. A., BSc, FGS Lectr.  
 Strachan, J., BSc Educ., PhD Camb., FGS Lectr.  
 King, R. P., MA PhD Camb., BSc Lond Lectr.  
 Moseley, F., MA Camb., BSc PhD Sheff., FGS Lectr.  
 Coope, G. R., MSc Manc., PhD, FGS Lectr.  
 Blundell, D. J., PhD Lond & Berw., BSc Lectr.  
 Bennison, G. M., MSc Durh., PhD Aberd., FGS Lectr.  
 Wright, A. E., BSc PhD Lectr.  
 2 Res. Fellows
- German**  
 Pascal, R., MA Camb. & Berw., LittD Camb. Prof.  
 Thomas, R. H., MA Camb., PhD Sr Lectr.  
 Prawer, S. S., MA Camb., PhD Sr Lectr.  
 Horne, J., PhD Vienna Lectr.  
 Cunningham, Amy F., MA Lps Lectr.  
 Wiener, P. B., MA Lectr.  
 Seiffert, L., BA Syd Lectr.  
 Lockwood, W. B., BA Manc., MA Berw., DLitt Asst. Lectr.  
 Van der Will, W., DPhil Lektor
- Government, see Pol Sci**
- Greek**  
 Thomson, G., MA Camb. & Berw. Prof.  
 Willets, R. F., MA Sr Lectr.  
 Hooker, G. T. W., MC, MA Lond Lectr.  
 Whitte, E. W., MA Camb. & Berw. Lectr.  
 Papayannopoulos, Katerina, Dip Athens (Mod. G.) Asst
- History, see also Econ. Hist.**  
 Hawgood, J. A., MA DLat Lond., PhD Heidel., MCom (Mod. H.) Prof.  
 Clonno, H. A., MA Oxon. & Berw. (Mediev. H.) Prof.  
 Styles, P., MA Oxon. (Engl. H.) Reader  
 Hilton, R. H., DPhil Oxon. (Mediev. H.) Reader  
 Ransome, Mary, MA Camb. (Mod. H.) Sr. Lectr.  
 Archer, Margaret, MA Lps., BLitt Oxon. Lectr.  
 Hardy, S. M., MA Camb., PhD Lond. Lectr.  
 Johnson, D. W. J., BLitt Oxon. Lectr.  
 Sawyer, P. H., MA Oxon. Lectr.  
 Knecht, R. J., MA Lond. Lectr.  
 Burley, K. H., BA PhD Lond. (Econ. H.) Lectr.  
 Humphreys, K. W., BLitt MA Oxon. (Palaeog.) Hon. Lectr.  
 1 Res. Fellow
- Italian**  
 Whitfield, J. H., MA Oxon. & Berw., Serena Prof.  
 Rees, D. G., MA Oxon. Lectr.  
 Caruana, G., Dott Para Lectr.  
 Bressan, D., Dott Pna (Colloquial I) Asst.
- Jurisprudence, see Law**
- Latin**  
 Dudley, D. R., MA Camb., FSA Prof.  
 Dorey, T. A., MA Oxon., PhD Sr. Lectr.
- Hooker, G. T. W., MC, MA Lond. Lectr.  
 Hooker, Edna M., MA Lond. Lectr.  
 Costa, C. D. N., BA BPhil Oxon. Lectr.  
 Corbett, P. B., MA Sheff., DrPhil & Lett. (Romance Philol.) Lectr.  
 1 Res. Fellow
- Law**  
 Hood Phillips, O., MA BCL Oxon., MA LLB Dub., LL.M. (Jurisp.) Barber Prof., Dir. of Legal Studies  
 Ungar, J., LL.M. Lond. Barber Prof.  
 Grove, G. A., LL.M. (Conveyancing & Equity) Prof.  
 Forbes, His Honour A. H. (Legal Ethics) Hon. Lectr.  
 Brown, L. N., MA LLB Camb., DientDroit Lyon. (Compar. L.) Sr. Lectr., Sr. Tutor  
 Garner, J. F., LL.M. Sr. Lectr., Admissions Tutor  
 Pennington, R. R., LL.D. (Comm. L.) Sr. Lectr.  
 Hudson, A. H., MA LLB Camb. (Common L.) Lectr.  
 Andrews, J. A., BCL MA Oxon. (Engl. L.) Lectr.  
 Haggins, M. J., LLB Camb. & Berw., PhD Camb. (Engl. L.) Lectr.  
 Bate, S. H., LL.B. Lectr.  
 Adams, D. S., BCL Oxon., LL.B. Lectr.  
 Homer, J. A., BA LL.B. Lectr.  
 Harvey, B. W., BA LLB Camb. Asst. Lectr.  
 Weston, C. A., BA St'ion Asst. Lectr.
- Linguistics**  
 Rees, A. S. C., MA Oxon. & Berw. Prof.  
 Hogben, L. M., MA Camb., DSc Lond., MSc, FRS Hon. Sr. Fellow
- Maltng and Brewing, see Biochem**
- Mathematical Physics**  
 Peeter, R. E., CBE, MA Camb., DPhil Lps., DSc Manc., Hon. DSc Lps., MSc, FRS Prof.  
 Mandelstam, S., BA Camb., BSc Rand., PhD, FRS Prof.  
 Valatin, J. G., Ding Bud. Reader  
 Chester, G. V., BSc Educ., PhD Lond. Reader  
 Field, G., BSc PhD Lond. Lectr., Tutor  
 Woodward, J. B., BSc PhD Lectr.  
 Castillo, L., BSc Lond., BA Camb. Lectr.  
 Burkhardt, G. H., BA Oxon., PhD Lectr.  
 Emery, V. J., BSc Hull, PhD Manc. Lectr.  
 Redish, K. A., BSc Lond. Hd. of Computing Services  
 5 Res. Fellows
- Mathematics, Pure**  
 Macbeth, A. M., BA Belf., MA Camb., PhD Prin. Mason Prof.  
 Daniels, H. E., MA Camb. & Edin., PhD (Stats.) Prof.  
 Edin. (Stats.) Prof.  
 Kuttner, B., MA PhD Camb. (Analysis) Reader  
 Wardle, K. L., MA Camb. Sr. Lectr.

Griffiths, H. B., MSc PhD <i>Mane.</i>	St. Lectr	Rozelaar, A. J. W., BSc	Lectr
Caldwell, Nora I., MA BSc PhD <i>Edu.</i>	Lectr	Hoole, R. B., BSc	Lectr.
Shepherd, G. C., BA PhD <i>Comb.</i>	Lectr.	Lawson, G. J., BSc PhD	Lectr
Wishart, D. M. G., BSc <i>St. And.</i>		Rawling, J. R., BSc MAsC <i>Br. Col.</i>	
MA PhD <i>Prob.</i>	(Stats) Lectr	Sci. M. I. T.	Lectr
Rogosinski, H. P., BA <i>Comb.</i>	Lectr	Breneton, T., BSc <i>Durh.</i>	Lectr.
Hoare, A. H. M., BA DPhil <i>Qaan.</i>	Lectr.	Chapman, W. R., MSc PhD <i>Sheff.</i>	
Parry, W., BSc PhD <i>Leid.</i> , MSc <i>Leo.</i>	Lectr	(Coal Preparation) Hon. Lectr	
Neldes, J. A., MA DPhil <i>Maths</i> <i>Stats</i> <i>Comb.</i>			
(Stats) Recog. Lectr			
Seaton, J. J., BSc <i>N. U. I.</i>	Asst. Lectr.	Lewis, A. C., MA <i>Comb.</i> & <i>Eng.</i>	
Schuck, L. H., BSc <i>Pen.</i> , MSc		MusB <i>Comb.</i>	Peyton & Barber Prof.
PhD <i>Colo.</i>	Temp. Lectr	Joubert, J., BMus <i>Durh.</i>	Lectr
Stoner, W. O., MA <i>Comb.</i>	Temp. Lectr	Doe, P. M., MA <i>Qaan.</i>	Lectr
Res. Fellow		Fortune, N. C., PhD <i>Comb.</i> , BA	Lectr.
		Greer, D., BA <i>Oxon.</i>	Asst. Lectr

## Medicine, see below

## Metallurgy, Industrial

Rollison, E. C., MSc PhD, FIM	Prof
Waleon, D. V., MA <i>Comb.</i> , PhD <i>Sheff.</i>	
FRIC	
Kondou, V., BSc <i>Brigade</i> , PhD	Sr. Lectr.
Bennett, G. H. J., BSc <i>Leid.</i>	Sr. Lectr.
Roberts, W. T., MSc PhD <i>Wales</i>	Lectr.
Rowe, G. W., MA PhD <i>Comb.</i>	Lectr.
Male, A. T., BSc	Asst. Lectr.
Res. Fellows	

## Metallurgy, Physical

Raynor, G. V., DPhil MA DSc <i>Oxon.</i>	
FRS	Fenney Prof.
McQuillan, A. D., BSc <i>Durh.</i> , PhD <i>Met.</i>	
	Res. Prof.
Wright, T., PhD MSc <i>Sheff.</i>	Sr. Lectr
Poll-Walpole, W. T., PhD DSc	Sr. Lectr
Glover, S. G., BSc PhD	Sr. Lectr.
Pratt, J. N., BSc PhD	Lectr.
Edelby, J. D., BSc PhD <i>Brut.</i>	Lectr
Evans, D. J., MSc PhD <i>Wales</i>	Lectr.
Smallman, R. E., BSc PhD	Lectr.
Smith, R. W., BSc PhD	Lectr.
Cockayne, B., BSc PhD	Lectr.
Wilson, J. R., BSc <i>Leid.</i> , MMet <i>Sheff.</i>	Lectr
Thompson, B. W., MA <i>Comb.</i> , PhD <i>Leid.</i>	Lectr
Res. Fellows	

## Microbiology

Catchmode, D. G., MA <i>Comb.</i> , DSc <i>Leid.</i>	
FRS	Prof.
Creaster, E. H., BA PhD <i>Comb.</i>	Sr. Lectr.
Hopton, J. W., MSc <i>Tech. Man.</i> , PhD <i>Leid.</i>	
	Lectr.
Drysdale, R. B., BSc <i>Glas.</i>	Lectr.
Smith, D. A., BSc PhD <i>N'dg.</i>	Lectr

## Mining and Minerals Engineering

Ward, S. G., MSc <i>Leid.</i> & <i>Birm.</i> , DIC,	
PhD <i>Leid.</i>	Prof.
Graham, J. K. L., (Metalliferous M.)	Sr. Lectr.
Barrrows, R. B. B., MSc	
(Mine Surveying & M.)	Lectr.
Thomas, W. G., BSc <i>Wales</i> , PhD	Lectr
Ludlow, N. G. T., MSc	Lectr

## Philosophy, Mental and Moral

Duncan-Jones, A. E., MA <i>Comb.</i> , PhD	Prof.
Whiteley, C. H., MA <i>Oxon.</i> , PhD	
	(Philos.) Reader
Gench, P. T., MA <i>Oxon.</i>	(Logic) Reader
Mayo, B., MA <i>Oxon.</i>	Sr. Lectr.
Harrison, B. J., PhD <i>Met.</i> , BSc BA	
	Temp. Asst. Lectr

## Physical Education

Munrow, A. D., BSc <i>Leid.</i>	Dur
Madders, M. A.	Lectr.
Knapp, Barbara N., MCom	Lectr.
Roberts, Christine D.	Lectr.
Slater, W. J., BSc <i>Leid.</i>	Lectr
Molvaux, D. D., MA	Lectr.
Tuxworth, W. J., BA	Lectr
Bonsar, K. H., BA <i>Nott.</i>	Lectr.
Marshall, Shirley	Asst. Lectr.
Page, A. P.	Asst. Lectr

## Physics

Moun, P. B., MA PhD <i>Comb.</i> , MSc, FIP,	
FRS	Poynting Prof., Hd. of Dept
Burcham, W. B., MA PhD <i>Comb.</i> , FRS	
	Oliver Lodge Prof.
Vinen, W. F., MA PhD <i>Comb.</i>	Prof.
Johnson, M. C., MA <i>Comb.</i> , DSc, FIP	
	(Astrophys.) Reader
Fleming, J. H., MA PhD <i>Comb.</i> , DSc,	
FIP	Reader
Walker, J., BSc PhD, FIP (Resistor P.)	Reader
Knight, R. H., MBE, MSc	Sr. Lectr., Tutor
Macfadyen, K. A., MSc <i>Leid.</i> , FIP	Sr. Lectr
Chackett, K. F., BSc PhD	Sr. Lectr.
Greenlees, G. W., MA PhD <i>Comb.</i>	Sr. Lectr.
Ruddford, L., MSc <i>Met.</i> , PhD DSc,	
	Sr. Lectr.
Brocher, D. F., BSc PhD	Lectr.
Black, P. J., PhD <i>Comb.</i> , BSc <i>Mane.</i>	Lectr
Rolph, P. M., BSc PhD	Lectr.
Doran, G. A., BSc PhD <i>Leid.</i>	Lectr.
McKee, J. S. C., BSc PhD <i>Belf.</i>	Lectr.
Glen, J. W., MA PhD <i>Comb.</i>	Lectr.
Lomer, T. R., BSc PhD <i>Leid.</i>	Lectr
Young, J. D., BSc PhD	Lectr
Van der Rany, H. B., BSc <i>Rand</i> , PhD	Lectr.
Dyson, N. A., MA PhD <i>Comb.</i>	Lectr.

England, J. B. A., BSc PhD *Beff.*  
 Champeney, D. C., BA DPhil *Oxon.*  
 O'Connor, D. A., BSc *Leam.*  
 Whitworth, R. W., MA PhD *Cambs.*  
 Dowell, J. D., BSc PhD  
 van Zyl, C. P., MSc O.F.S.  
 Swinbank, P., BSc PhD  
 Musgrave, B., BSc PhD  
 Martelli, G., LabDocFiaSup *Proc*  
 Lowe, J., BSc PhD (Nuclear P.)  
 Colley, D. C., MA *Rock.*, BSc PhD  
 Harris, R. G., BSc PhD  
 Mace, Rev. A. W. V., BSc *Leam.*  
 Farr, R. F., MA, FIP  
 Whitaker, P. D., BSc *Leam.*, PhD *Notst.*  
 Powell, W. B., MA *Oxon.*  
 Shaylor, H. R., MSc  
 Sturt, H. K.  
 Guest, G. H.  
 17 Res. Fellows

#### Physiology, see also Zool.

Bush, I. E., MA MB BChir PhD *Cambs.*  
 Bowman Prof., Dir. of Dept  
 Thorpe, W. V., MA *Cambs.*, PhD *Leam.*  
 (Physiol. Chem.) Prof.  
 Barclay, J. A., MA BSc MB ChB *Aberd.*  
 (Renal P.) Reader  
 Whitfield, I. C., BSc PhD *Leam.*, DSc  
 FRIC Reader  
 Hall, Kathleen, PhD BSc *Wales*, DSc  
 (Histol.) Sr. Lectr.  
 Bray, H. G., DSc PhD (Biochem.) Sr. Lectr.  
 Nutt, Marjorie E., BSc *Leam.*, PhD  
 Asher, H. M. F., BA *Cambs.*  
 Hamley, E. J., BA *Tor.*, PhD *Leam.*  
 Harries, E. H. L., MB BS PhD *Leam.*  
 Brown-Grant, K., MA MD *Cambs.*  
 Cumming, J. D., MB ChB PhD  
 James, Sybil F., PhD DSc (Biochem.)  
 White, K., BSc *Leam.*, PhD (Biochem.)  
 Clarke, H. G., BSc *Notst.*, MB ChB *Edin.*  
 Haigh, A. L., BSc PhD *Brit.*  
 8 Res. Fellows

#### Political Science

Ferre, H. S., MA PhD *Cambs.* Prof.  
 Maddick, H., MA *Oxon.* (Pub. Admin.)  
 Trevel, L. J., BSc(Econ) *Leam.*  
 (Pub. Admin.) Lectr.  
 Ostergaard, G. N., MA DPhil *Oxon.*  
 Lane, D. S., BSc(Econ) Temp. Lectr.

#### Russian Economic Studies, see Econ. and Instins. of the U.S.S.R.

#### Russian Language and Literature

Christian, R. F., MA *Oxon.* Sr. Lectr. in-Charge  
 Arnan-Beykov, Mrs. Inna, DPhil *Prague*  
 Johnson, D. J. L., BA PhD  
 Ross, L., BCom  
 Mitchell, S., MA *Oxon.*  
 Alexander, Sara (Colloquial R.) Asst

#### Social Study

Laffite, F., BA *Oxon.*  
 (Soc. Policy & Admin.) Prof.  
 Cavenagh, Mrs. Winifred E., JP.  
 BSc(Econ) DPA *Leam.*, PhD Sr. Lectr.  
 Colha, A., BSc(Econ) *Leam.* Lectr.  
 Laycock, A. L., BA *Leam.*, PhD *Edin.* Lectr.  
 Shapiro, Mrs. Pauline C., MA *Oxon.*  
 (Child Service Course) Lectr., Tutor  
 Tirrns, N. W., MA *Leam.* (Soc. Work) Lectr.  
 Madge, C., MA Prof.  
 Klein, Josephine, BA *Leam.*, PhD Lectr.  
 Dennis, N., BSc *Leam.* Lectr.  
 Baldamus, W., DrRerPol *Pruss.* Lectr.  
 Chalmers, A. D., MA *Glas.* (Soc. Psychol.) Lectr.  
 Rex, J., BA *S.A.*, PhD *Leam.* Lectr.

#### Spanish

Munson, J., MA PhD *Edin.* Prof.  
 Atkinson, Dorothy M., MA *Sheff.* Lectr.  
 Gibbs, J., MA BLitt DPhil *Oxon.* Lectr.  
 Lora, J. Garcia, MA Lectr.  
 Inglis, A. D., MA PhD *Edin.* Lectr.  
 Burns, Mrs. Adelaide, MA *Lie.* †Lectr.  
 Jacero, E. (Colloquial S.) Asst.  
 Eastwood, Lillian (Colloquial Portuguese) Asst.  
 Lambourne, Mrs. L. (Colloquial Portuguese) †Asst.

#### Theology

Davis, Rev. J. G., MA *Oxon.* & *Barn.*,  
 DD *Oxon.*  
 Edward Cadbury Prof., Hd. of Dept.  
 Smart, R. N., BA BPhil *Oxon.* H. G. Wood Prof.  
 Dickinson, Rev. J. C., BLitt MA *Oxon.* Sr. Lectr.  
 Eaton, J. H., MA *Cambs.* Lectr.  
 Burdall, J. N., MA *Cambs.*, PhD *Notst.* Lectr.  
 Recognized Lecturers  
 Curtis, Rev. A. H., MA BD *Edin.*  
 Davis, Very Rev. H. F., MA *Oxon.*, DD *Freib.*  
 Foster, Rev. R. J., STL LSS *Rome*  
 Gribble, Rev. Canon A. S., MA *Cambs.*  
 Herbert, Rev. A. S., MA *Oxon.*, BD *Leam.*  
 Long, Rev. E., MA *Cambs.* & *Lea.*  
 Minton, Rev. C. L., BA *Manz.*, BD MTh  
 PhD *Leam.*  
 Strawn, Rev. W., BD MTh *Leam.*  
 Rodd, Rev. C. S., MA *Cambs.*  
 Lefever, Rev. H. C., BA BD *Leam.*,  
 DPhil *Tubingen*  
 Fenn, Rev. J. E., BSc *Leam.*

#### Zoology and Comparative Physiology

Lowenstein, O. E., DPhil *Mün.*, DSc *Glas.*,  
 PhD, FRSE Mason Prof.  
 Yapp, W. B., MA *Oxon.* Sr. Lectr.  
 Finlayson, L. H., BSc *Glas.*, PhD  
 Sr. Lectr., Tutor

Gibson, R. J., TD, BSc	Lectr.	Ear, Nose and Throat, Diseases of
Llewellyn, J., MSc Water, PhD DSc	Lectr.	Strang, R. R. Sc., MB ChB Glas., FRCS
Murray, R. W., MA DPhil Oxon	Lectr.	†Lectr. & †Cin. Lectr
Potts, W. T. W., MA PhD Camb	Lectr.	Strong, E. C. N., LDS, FRCS
Musley, Brenda M., BSc Lond., PhD Glas.	Lectr.	†Lectr. & †Cin. Lectr.
Cohen, J., BSc PhD Hull	Lectr.	Univ. Clinical Lecturers
Sladden, C. R., BSc PhD Brnt.	(Radiobiol.) Lectr.	Moffett, A. J., TD, MB ChB, FRCS
Holmes, R. M., BA Camb	Temp Lectr	Crabtree, N. L., FRCS
Darwin, F. W., BA Camb.	Temp Lectr.	Eyles, R., MD Belf., FRCSed
Wright, D. W., MA Oxon.	Recog Lectr	Dalton, G. A., MB ChB, FRCS
1 Res. Fellow		Sr. Clinical Tutors
		Walker, C. L., MB ChB Mon., FRCSed
		Dowling, W. B. L., MB ChB, FRCSed

## MEDICINE

(for subjects of first year—Anat., etc., see above)

Dean, —Prof. A. L. d'Abreu, OBE, MB ChM, FRCS	
Deputy Dean —Prof. W. M. Arnott, TD, BSc Edin., MD Edin. & Brim. FRCP, FRCPed	
Director of Graduate Studies:—A. G. W. Whitfield, MD PhD, FRCP	

## Anaesthetics

University Clinical Lecturers	
Clecke, L. T., TD, BSc MB ChB, FFARCS	†Lectr.
Murtagh, B. L. S., MB ChB, FFARCS	Lectr.
Green, Marjorie W. S., MB ChB, FFARCS	
Rawlings, G. A., DSc, MB ChB, FFARCS	
Mason, Mrs. Helen S., MB ChB, FFARCS	
Mills, Margaret J., MB ChB, FFARCS	
Wall, Doris L., BSc MB ChB	
Weich, Janet R.	
Woodward, J. W., MB ChB, FFARCS	
Guest, Ann A., MB ChB	
Inglis, J. McN., MB ChB Lectr., FFARCS	
Lee, R. E., MA BM BCh Oxon., FFARCS	
Pike, W. L., MB ChB	
Smith, B. H., MB ChB, FFARCS	
Mathews, E. T., MB ChB, FFARCS	
Compton, T. V., MB BS Lond., FFARCS	
Lumb, Patricia M., MB ChB, FFARCS	

## Bacteriology

Shrewsbury, J. F. D., MD Liv. & Brim., DPH	Prof
Bisset, K. A., PhD DSc Edin.	(Systematic B.) Reader
Laughton, Nancy, MD DPH	Sr. Lectr.
Moore, F. W., BSc Durb.	Lectr.
Carveridge, N. J., PhD Staff., BSc	Lectr.
Conran, M. B., MB BS Lond.	Lectr.
Pearce, Phyllis E., BSc PhD	Lectr.
Jeynes, M. H., BSc PhD	Lectr.
Flewett, T. H., MD Belf.	Hon. Lectr.
Rogers, K. B., MD Lond.	Hon. Lectr.
Whitehead, J. E. M., MA MB BChir Camb.	Hon. Lectr.
Whitby, J. L., MB BChir Camb.	Univ. Clin. Lectr.
1 Res. Fellow	

## Forensic Medicine and Toxicology

Webster, J. M., CBE, MA BSc MB ChB Hon. L.D. St. And., MD, FRCSed	Prof.
---	-------

## Medical Biochemistry and Pharmacology

Frazer, A. C., CBE, MB BS PhD	Prof.
DSc Lond., MD, FRCP	
Schneider, R., MD, FRCP	Sr. Lectr.
Chance, M. R. A., BSc Lond., PhD DSc	
Fenton, J. B., PhD DSc	Sr. Lectr.
Pever, W. F. R., BSc PhD	Sr. Lectr.
Hawthorne, J. N., BSc PhD	Lectr.
Halsbury, G., MD Astarburg, PhD	Lectr.
Dykens, P. W., MB ChB N.Z.	Lectr.
Dils, R. R., BSc PhD	Lectr.
Sammons, H. G., BSc PhD	Hon. Lectr.
Forbes, O. C., BSc PhD MB ChB	Hon. Lectr.
McArdin, C. M.	(Pharmacy) †Dent.
Marston, A. E.	(Pharmacy) †Dent.
Croftin, J. D., BSc	(Pharmacy) †Dent.
9 Res. Fellows	

## Medicine

Arnott, W. M., TD, BSc Edin., MD Edin. & Brim., FRCP, FRCPed	Williams Withering Prof.
Bishop, J. M., MD	Reader, First Asst.
Harris, P. C., MD PhD Lond.	Reader
Cooke, W. T., MA Camb., MD Camb.	†Lectr. & †Cin. Lectr.
Brim., FRCP	
Crooke, A. C., MA MD Camb.	Hon. Reader & †Cin. Lectr.
French, J. M., PhD MD Lond.	Hon. Reader
Cumming, G., BSc Lond., MB ChB PhD	Lectr.
Fletcher, P. F., BSc MD	Lectr.
Whitfield, A. G. W., PhD MD, FRCP	†Lectr. & †Cin. Lectr.
Davison, P. H., BSc MD, FRCP	(Med. for Dent. Students) †Lectr. & †Cin. Lectr.
Hall, G. S., MD, FRCP	(Neurol.) †Lectr. & †Cin. Lectr.
Jefferson, J. M., MA BSc DM Oxon., FRCP	(Neurol.) †Lectr. & †Cin. Lectr.
Tate, B. C., MBE, MA MD Camb., FRCP	(Dermatol.) †Lectr. & †Cin. Lectr.

Gaddie, R., BSc PhD *Edin*, FRIC  
(Chn, Biochem) Hon. Lectr & †Clin  
Lectr.

Chairman, J. N. M., MD DPH *Glas*, FRCP  
Hon. Lectr & (Pathol.) †Clin. Lectr.

Meynell, M. J., BSc MD *Sheff*, DPH *Leeds*  
Hon. Lectr & (Pathol.) †Clin. Lectr.

Cruick, C. W., BSc MB BS *Leeds*, Hon. Lectr.  
Armstrong, G. H., MB ChB *Edin*,  
FRCPed Hon. Lectr

Thomson, Sir Arthur, MC, Hon. LLD *Edin*  
& *Birm*, MD, FRCP (Med. Hist.) Sr. Fellow  
14 Res. Fellows

Univ. Senate Clinical Tutors  
Fowler, W., MD *Glas*  
Wagfield, A. S., MB BS *Leeds*  
Ker, F. L., MB ChB (Infectious Dis.)

Univ. Clinical Tutor  
King, Margaret, MB ChB *Brist*

Univ. Clinical Lecturers  
Brenner, O., MD, FRCP  
Bulmer, E., CBE, TD, MD *Edin*, FRCP,  
FRCPed

Cant, W. H. P., MD *Leeds*, FRCP  
(Paediatrics & Child Health)  
Fairbairn, E. A., MD *Leeds*, (Dermatol.)

Hawkins, C. F., MD *Leeds*, FRCP  
Humphreys, D. R., MD  
Malina, J. M., MD ChB, FRCP

Nagley, L., MD *Leeds*  
Parsons, C. G., MA MD *Cambs*, FRCP  
Smallwood, W. C., MD, FRCP

Taylor, A. B., MD, FRCP  
Williams, G. E. O., MD *Leeds*  
Blaney, J. D., MD *Leeds*

Neuropharmacology, Experimental  
Bradley, P. B., BSc *Brist*, PhD DSc  
Reader, Actg. Hd. of Dept.

Ansell, G. B., MA *Cambs*, PhD *Wales*  
(Neurochem.) Lectr.  
Key, B. J., BSc PhD Lectr.

Wolstencroft, J. H., MA PhD *Cambs*  
Hon. Lectr.

1 Res. Fellow

Neurosurgery  
Hughes, E. B., MB BS *Leeds*, ChM, FRCS Prof.

Turner, E. A., MB ChB *Glas*, FRCS  
[Lectr. & †Clin. Lectr.]

Small, J. M., MB ChB, FRCS Univ. Clin. Lectr.  
1 Res. Fellow

Obstetrics and Gynaecology  
McLaren, H. C., MD *Glas*, FRCSed, Prof.

FRPPSGlas, FRCOG  
Edwards, R. L., MA *Cambs*, MB BS *Leeds*,  
Sr. Lectr., First Asst.

Little, E. M., MB ChB, FRCSed Lectr.  
Pothergill, R. J., MB ChB Lectr.

Taylor, C. W., MB ChB, FRCOG  
Hon. Member of Staff

†Lecturers and †Univ. Clinical Lecturers  
Test, F. S., MB ChB, FRCS

Davidson, S., AFC, MB ChB *Edin*, FRCSed,  
FRCOG

Dencon, A. L., FRCSed, FRCOG  
Mills, W. G., MB ChB, FRCS, FRCOG  
Shotton, Dorothy M., MB ChB

Roberts, H., MD *Leeds*, FRCSed, FRCOG

Univ. Clinical Lecturers  
Dobbs, Mrs. Beatrice M. W., MA MB BChir  
DMRE *Cambs*, FRCS

Douglass, T., MB ChB *Glas*  
Ganner, P. J., BS *Leeds*, FRCOG, FRCS  
Hallam, Jess, MB ChB DCH

Lester, G. S., MB ChB, FRCSed  
Park, L. M., MB ChB, FRCS  
Taylor, W. A., MD *Dub*, FRCSI, FRCOG

Senior Clinical Tutors  
Copie, E., MD *Leeds*

Mitchell, G., MB ChB, FRCSed  
Duvall, H. R., MD CM *Que*, FRCSed  
Fisher, H. J., MB ChB *Wales*, FRCSed

Noble, M. J. D., MB ChB *Edin*, FRCSed  
Parson, R. B., MB ChB *Edin*

Ophthalmology  
Evans, L. P. J., MA MD *Cambs*, FRCS  
†Lectr. & †Clin. Lectr.

Univ. Clinical Lecturers  
Walker, W. M., BSc MB ChB *St. And*, FRCS.  
Roper-Hall, M. J., MB ChM, FRCS

Senior Clinical Tutors  
Crews, S. J., MA MB BChir *Cambs*, FRCSed  
Rubinstein, K., MD *Berut*, FRCSed

Paediatrics and Child Health  
Hubble, D. V., MD *Leeds*, FRCP Prof.

Wolf, O. H., BA MD *Cambs* Reader, First Asst.  
Bower, B. D., MD Sr. Lectr.

Lloyd, June K., MB ChB *Brist*, Lectr.  
Smallwood, W. C., MD, FRCP

†Lectr. & †Clin. Lectr.  
Burns, C. L. C., DPM (Child Guidance) †Lectr.

Cohen, H. M., CBE, MD DPH  
(School Health) †Lectr.

Kemp, P. R., MB ChB *Edin* †Lectr.  
Cant, W. H. P., MD *Leeds*, FRCP  
†Lectr. & †Univ. Clin. Lectr.

Parsons, C. G., MA MD *Cambs*, FRCP  
†Lectr., †Univ. Clin. Lectr.

Wood, B. S. G., DM *Oxon*  
†Lectr., †Univ. Clin. Lectr.

Mahon, D. F., BSc N.U.I., MB ChB †Lectr.  
Jones, H. W. E., OBE, MB BS *Leeds*,  
FRCP Univ. Clin. Lectr.

Disney, M. E., MD *Leeds*, Sr. Clin. Tutor  
Oldham, J. S., DM *Oxon*, Sr. Clin. Tutor

2 Res. Fellows

**Pathological Studies****Experimental Pathology**

Squire, J. R., MA Camb., MD Camb. & Berw.,  
FRCP

Leath Prof., Dir. of Div. of Pathol. Studies  
Gell, P. G. H., BA MB BChir Camb.

(Immunol. Pathol.) Prof.  
Walton, K., MD Lond., PhD

Hardwick, J., MB BS BSc Lond., MD  
Soothill, J. F., MA MB Camb.

Rowe, D. S., MB ChB BSc  
Stanworth, D. R., BSc PhD

Dykes, P. W., MB ChB N.Z.  
Blunney, J. D., MD Lond.

†Lectr. & (Med.) †Clin. Lectr.  
Weiner, W., MD Prague †Hon. Lectr.

Cruckshank, C. N. D., MD St. And.  
†Hon. Lectr.

Bull, J. P., MA MD BChir Camb.  
Whitehead, T., FRIC †Hon. Lectr.

15 Res. Fellows

**Pathology**

Our, J. W., BSc DPH Belf., MD Belf. & Berw.,  
Hon. MD Perugia, FRCP

Prof., Dir. of Cancer Res.  
Brewer, D. B., MD Lond., Reader, First Asst.

Woodhouse, D. L., PhD MSc, FRIC  
(Chem. Pathol., Cancer Res.) Reader

Smith, W. T., MD (Neuropathol.) Reader  
Lannigan, R., MD Glas., Sr. Lectr.

Heath, D. A., MD Sheffield, PhD  
Howell, J. S., MD Sr. Lectr., M. C. Smith Lectr.

Taylor, C. W., MB ChB, FRCOG  
Hon. Member of Staff, Univ. Clin. Lectr.

Cameron, A. H., MD Dink.  
Hon. Lectr. & Univ. Clin. Lectr.

Davis, B. T., MB ChB  
Hall, J. B. W., MB ChB St. And., Lectr.

Parish, D. J., BSc MB ChB Maw.  
Ellis, H. A., MB ChB PhD Lectr.

Dyke, S. C., DM Oxon., FRCP  
†Curator of Regional Histological Collection

**Univ. Clinical Lecturers**

Meynell, M. J., BSc MD Sheffield, DPH Leeds  
Rogers, K. B., MD Lond.

Chalmers, J. N. M., MD DPH Glas., FRCP  
3 Res. Fellows

**Psychiatry**

Trethowan, W. H., MA MB BChir Camb.,  
FRACP, MRCP

..... (Sr. Lectr., First Asst.)  
O'Reilly, J. J., MB BChir BAO Belf.,  
DPM Lond.

(Psychol. Med.) †Lectr. & †Clin. Lectr.  
Sum, M., MD Edin. Univ. Clin. Lectr.

Tibbette, R. W., MA BM BCh Oxon.  
Univ. Clin. Lectr.

Harrington, J. A., MA MD Camb.  
Sr. Clin. Tutor

**Radiology**

Astley, R., MB ChB Univ. Clin. Lectr.  
Bishop, J. C., MC, MB ChB, FFR

Univ. Clin. Lectr.  
Smith, O. E., MB ChB, FFR Univ. Clin. Lectr.

Huston, J. F. K., MA Camb., MB ChB Glas.,  
FFR Univ. Clin. Lectr.

Howarth, F. H., MA MB BChir Camb.,  
DMRD Univ. Clin. Lectr.

Jacobs, P., MB ChB Brst. Univ. Clin. Lectr.

Moxon, C. P., DMRD Univ. Clin. Lectr.

Toye, D. K. M., MB BS Lond., DMRD  
Univ. Clin. Lectr.

Muddow, E. H., MB ChB, FFR  
Univ. Clin. Lectr.

**Radiotherapy**

Bromley, J. F., OBE, MB ChB Maw., DMRE  
Camb., FRCP, FFR Univ. Clin. Lectr.

Holme, G. M., MB ChB Univ. Clin. Lectr.

Bond, W. H., MB ChB, FRCS Univ. Clin. Lectr.

Newsholme, G. A., MA MD Camb.  
Univ. Clin. Lectr.

**Social Medicine**

McKeown, T., BA Br. Col., PhD McG.,  
DPhil Oxon., MB BS Lond., MD,

FRCP Prof.  
Record, R. G., MD PhD DPH Reader

Waterhouse, J. A. H., MA Camb., PhD Reader

Mackintosh, Jean M., CBE, MD Glas.,  
DPH Glas. & Edin. Sr. Fellow

Lock, I. M., MB PhD Lectr.

Wrighton, R. F., MA Camb., PhD Lectr.

Edwards, J. H., BA MB Camb.  
Mullar, E. L. M., MD MSc Sheffield, DPH Lond.,  
(Pub. Health) †Lectr.

Lloyd, W. J., MA MB BChir Camb.  
(Occup. Health) †Lectr.

Springett, V. H., MD Lond. (TB) †Lectr.

Gordon, C. W., MB Aberd., DPH Johns H.,  
†Lectr.

Cross, K. W., BSc PhD Sr. Statistical Officer

**Surgery**

Stammers, F. A. R., CBE, TD, BSc MB ChM,  
FRCS Prof.

d'Abreu, A. L., OBE, MB ChM, FRCS  
(Cardiac S.) Prof., †Clin. Lectr.

Gassant, W., MB ChM Syd., FRCS,  
FRCSed

(Accident S.) Hon. Prof., †Clin. Lectr.

Brooke, B. N., MChir Camb., MD, FRCS  
Reader, First Asst.

Slaney, G., MS Ill., MB ChB, FRCS Sr. Lectr.

Ashton, F., MB ChM, FRCS Lectr.

Williams, J. A., MB ChB, FRCS Lectr.

Gray, J. G., MB ChB Edin., FRCS Lectr.

Collis, J. L., BSc MD, FRCS  
†Lectr. & †Clin. Lectr.

Baines, G. H., MA MB BChir Camb.,  
FRCS †Clin. Lectr.

Donovan, T. S., MChOrth Lon., MB ChB,  
FRCS, FRCSed  
(Orthop. S.) †Lectr. & †Clin. Lectr.

- Innes, A., MBE, MA BChs Camb., FRCS  
 †Lectr. & †Clin. Lectr.  
 Goussens, A., MC, MB ChB, FRCS  
 †Lectr. & †Clin. Lectr.  
 Matrissey, D. M., MCh N U I, FRCS,  
 FRCSed †Lectr. & †Clin. Lectr.  
 Brookes, V. S., MB ChB, FRCS  
 †Lectr. & †Clin. Lectr.  
 Dawson-Edwards, P., MB ChB, FRCS  
 †Lectr. & †Clin. Lectr.

Univ. Clinical Lecturers

- Allan, F. G., MB BS Lond., FRCS  
 Debenham, R. K., CBE, MA MD Camb.,  
 FRCS  
 Edwards, J. A. C., MB BS Lond., FRCS  
 Fulford, J. C., MB ChB, FRCS  
 Harrison, M. H. M., ChM Lond., FRCS  
 Hendry, A. M., MB ChB Aberd., FRCSed  
 Mansfield, O. T., FRCS (Plastic S.)  
 Watson, A. B., MB ChM, FRCS  
 Welsh, F., BSc MB ChB, FRCS  
 Abrams, L. D., MB ChB, FRCS  
 Roberts, K. D., MB ChM, FRCS  
 Watts, G. T., MB ChB, FRCS

Senior Clinical Tutor

- Scrase, W. H., MB ChB MChOrth Lib.,  
 FRCSed (Orthop S.)

Therapeutics, see Med Biochem

EDWARD CADBURY LECTURER  
 IN THEOLOGY

- 1963-64—Rev. Prof. W. O. Chadwick, Hon. DD  
 St. And., DD Camb., FBA

INGLEBY LECTURER

(Appointed biennially)

- 1961-62—Lord Rothschild, GM, PhD ScD  
 Camb., FRB

LEONARD PARSONS LECTURER

(Appointed biennially)

- 1962-63—J. A. F. Roberts, MA Camb., DSc MD  
 Edin., FRCP

WILLIAM WITHERING LECTURER

(Appointed biennially)

- 1961-62—Prof. J. McMichael, MD Hon. LLD  
 Edin., FRCP, FRB

INSTITUTE OF EDUCATION

- Jefferys, M. V. C., CBE, MA Oxon & Birm.  
 Prof. of Educ., Dir. of Inst.

- Payne, Ethel R., MSc Wales  
 Warden Tutor of Inst.

Research Department

- Peel, E. A., BSc Lond., MA PhD DLat Lond.  
 Prof. of Educ., Hd. of Dept. &  
 Dept. of Child Study  
 Pringle, Mrs. Mas L. K., BA PhD Lond.  
 Sr Lectr., Dep. Hd. of Dept. of Child  
 Study  
 Burroughs, G. E. R., BSc Lond., PhD Sr Lectr.  
 Curr, W., MA EdB Glas. Sr Lectr.  
 Beard, Ruth M., MSc MA PhD Lond Lectr.  
 Phillips, C. J., BA Lond. Lectr.  
 Wills, Mrs. Vera W., DipSocStud Lond. Lectr.  
 4 Res Fellows

DEPARTMENT OF EXTRA-MURAL  
 STUDIES

- Parker, A. M., MA Oxon.  
 Sec., Bd. of Adult Educn., Dir. of Dept.  
 Rundle Clark, R. T., MA Oxon. Sr. Staff Tutor

Senior Lecturers

- Mellers, W., MA BMed Camb. (Music)  
 Pilgrims, J. E., MA Lond. (Hist.) [N. Shrops]  
 Webster, G., MA Manc., PhD, FSA (Archaeol.)  
 Pickavance, T. J., MA Oxon., BSc Ry. (Biol. Sci.)

Lecturers

- Brinkworth, E. R. C., BLet Oxon., MA  
 (Archives Studies) [S. Warwick.]  
 Chaplin, R. A., MA Oxon. [S. Warwick.]  
 Cope, G., MSc (Theol.)  
 Evans, G. L., BA Wales (Engl. Lit.)  
 Gooder, A., BA PhD Lond.  
 (Hist.) [Coventry & Dist.]  
 Gray, D. E., JP, BA PhD Manc.  
 (Hist.) [E. Birmingham]  
 McNair, D., BA Durh.  
 (Sociol.) [N. & W. Worces.]  
 Minks, A. L., MA Oxon. (Econ.)  
 Nicklin, Phyllis A., MA (Geog.)  
 Playdell-Pearce, A. G., BA Brist.  
 (Philos.) [Wolverhampton & Dist.]  
 Pritchard, E. P., BA Lond., FLA  
 (Govt.) Librarian  
 Richardson, E. W. M., MA Oxon.  
 (Internat. Affairs) [S. & E. Worces.]  
 Rex, M. M., MA Oxon. (Archit. Hist.)  
 Russell, C. (Fine Arts)  
 Sawers, R., MA Oxon. (Philos.)  
 Stanford, S. C., BA Lond., FSA  
 (Archaeol.) [Herefords.]  
 Stopes-Roe, H. V., MSc PhD Camb.  
 (Phys. Sci.)  
 Taylor, P. A. M., MA PhD Camb.  
 (American Studies) [Dudley & Dist.]  
 Wicker, B. J., MA Oxon.  
 (Engl. Lit.) [W. Birmingham]  
 Wollaston, E. P. M., MA Lond.  
 (Hist.) [S.E. Staffs. & N. Warwick.]  
 Nuttall, C. S., BA Wales (Econ.) [H. M. Forces]

## ADMINISTRATIVE AND OTHER STAFF

**REGISTRY.** Dep. Registrar: A. D. Lanfoot, MA Comb. Asst. Registrars: C. Sneed, MCom; C. Beakwell, MA; E. Fox, MA *Memo*; M. A. Bantz, MA *Oxon*; H. F. Patterson, MA Comb.; R. C. B. Grey, MA Comb.

**SECRETARY'S DEPT.** Asst. Secs.: P. R. Burton, MC; A. H. Skene, PCA.

**BURSAR'S DEPT.** Asst. Bursar: F. C. Ott, DSC, BSc(Econ) *Leind*.

**LIBRARY.** Dep. Librarian: T. H. Bowyer, BSc *Leind*, FLA Sub-Librarians: H. B. Evans, MA, Margaret P. Russell, MA *Edin* Asst. Librarians: H. A. Howes, BA, J. H. Keegan, MA; D. B. Butler, BA *Oxon*; A. Nicholls, BA.

**MEDICAL OFFICER:** R. H. Bolton, BA BM BCh *Oxon*. Asst. Med. Officer: J. C. Brown, MB ChB *Adon* Univ. Dental Officer: H. Nordan, LDS Asst. Dental Officer: D. B. Wells, LDS.

**RADIATION PROTECTION OFFICER:** D. F. Brucher, BSc PhD.

**APPOINTMENTS BOARD.** Sec.: P. C. Hordern, AFC, MA *Oxon*. Asst. Secs.: A. F. H. Baylis, BA; J. C. Gascogne, OBE, BSc; W. H. Reeve, MSc.

**INSTITUTE OF EDUCATION.** Sec.: W. A. C. Berry, TD, MA *Oxon*. Librarian: G. Gosam, MA *Oxon*, FLA Asst. Librarian: P. Platt, MA PhD Tutor (Services to Teachers): Muriel I. Burden, BA *Leind*.

**DEPT. OF EXTRA-MURAL STUDIES.** Sec.: N. H. B. Connor, MA *Oxon* Staff Tutor & Librarian: E. P. Pritchard, BA *Leind*, FLA.

**LODGINGS WARDEN.** Edith M. Teverton, BSc *Leind*.

**GUILD OF UNDERGRADUATES.** Warden: Prof. Sir Arthur Thomson. Pres. (1962-63): R. C. Klevin. Permanent Sec.: R. T. Jones.

**WARDENS OF HALLS OF RESIDENCE.** Women Students: Miss Julia Friend (University House); Men Students: P. C. Hordern, AFC, MA *Oxon* (Chancellor's Hall); R. J. Gibson, TD, BSc (Chad Hill); C. E. Harrold, BSc *Leind*, PhD Comb (The Manor House).

**UNIV. TRAINING CORPS (T.A.).** CO., Lt.-Col. R. J. Gibson, TD.

**UNIV. AIR SQUADRON.** CO Sqn. Ldr. J. D. Cotter, DFC.

## AFFILIATED INSTITUTION

The MEDICAL SCHOOL OF THE UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND (see p. 856) is recognized as an affiliated instn. of the Univ. Holders of full-time chairs in the med. sch. in Rhodesia are associated in an honorary capacity with the appropriate depts. in the fac. of med. of the Univ. of Birmingham. Full-time non-professional staff of the med. sch. in Rhodesia are also appointed members supernumerary to the

establishment of the depts. in the med. sch. of the Univ. Attendance upon courses of study in the med. sch. of the Univ. Coll. of Rhodesia and Nyasaland and the performance of exercises and other exams. there are accepted as qualifying for the award of the degree of MB ChB of the Univ., without the need for further attendance or exam. in the Univ. itself.

## GENERAL INFORMATION

Mason Science Coll., founded in 1880 by Sir Josiah Mason, was renamed Mason Coll. in 1894 when it merged with the med. fac. of Queen's Coll. In 1894 the Birmingham Training Coll. for teachers in elementary schs. was transferred to Mason Coll., which was incorporated by act of parliament 4 yrs later as 'The Mason Univ. Coll.'. This instn. was absorbed in the Univ. of Birmingham, incorporated by royal charter in 1900. The Univ. had then a staff of 70 and 678 students of whom only 189 were registered undergrads.

Considerable additions to bldgs and facilities were made from 1900 to 1913 and between 1926 and 1939, and the no. of undergrads. increased steadily. In June 1939 the academic staff numbered 159 and there were 1465 full-time students. During the war of 1939-45 devel. con-

tinued and a considerable contribution was made to the war effort by res. conducted at the Univ. From 1946 to 1961 expansion in both bldgs and numbers proceeded at such a rate that in Oct. 1961 there was an academic staff of 632 and 4600 full-time students registered for courses during the 1961-62 session.

**CONSTITUTION.** The governing body of the Univ. is the court of governors (preluded over by the chancellor), whose executive cttee. is the council, which submits an annual report to the court; the senate, which consists of the vice-chancellor and principal, vice-principals, deans of all facs. and all profs., regulates academic matters and its activities are subject to review by council. The pro-chancellor presides over the council and the vice-chancellor over the senate. There are



5 facs., presided over by the deans, which have their own advisory bds and exco. The delegacy of the inst. of educ. reports direct to senate.

**INCOME (1960-61).** Total income, £3,072,425 (endowment, donations and subscriptions, £166,092; grants from local authorities, £65,450; parliamentary grants, £2,196,731; students' fees, £249,577; contributions for services of staff, etc., £6875; research grants, etc., £365,969; other income, £21,731).

**FACULTIES AND DEANS (1962-63)** Arts, Prof. A. C. Lewis (music), *conv. & soc. sci.*, Prof. H. S. Ferns (pol. sci.); law, Prof. O. Hood Phillips, *senr.*, Prof. A. L. d'Abreu (cardiac surg.), *senr.*, Prof. S. G. Ward (mining & minerals engin.)

**UNIVERSITY PREMISES** The bldgs. of the univ. are at Edgbaston, about 3 miles from the centre of Birmingham, on a site which now covers nearly 240 acres. The first bldg. at Edgbaston were completed in 1909.

Bldgs. for arts, maths/phys., chem., civil engin., highway engin. and law, together with an extension to the students' union and a new wing at the clin. res. block were opened in 1960. A new refectory and staff house were started in 1959 and completed during 1962. A new bldg. for biol. sci. is due for completion in 1963 and it is hoped that pt. of the fast pan. of new halls of residence will be ready for occupation in 1963. Other new bldgs. started recently include a bldg. for the fac. of comm. & soc. sci. and a new dental hosp. together with the first stage of a phys. educn. centre, and addnl. playing fields and pavilions outside Birmingham. Accomms. for phys. and a radiation centre, for phys. metall., mining and minerals engin., will be started during 1962 and 1963 together with further halls of residence. A further extension of the clin. res. annex will be completed towards the end of 1962.

**LIBRARY** About 550,000 vols., incl. Bailes lib. (med. sch.), 70,000 vols.; Harding law lib., 10,000 vols.; music lib. (Barber Inst.), 35,000 items; other sections in depts. of bot., biochem., chem. engin., engin. prodn., geol., Russian econ., mining and phys. The fine arts lib. is part of the Barber Inst. Special features: papers of Joseph Chamberlain and Sir Austen Chamberlain, Galsworthy MSS., Wedgwood philol. lib., Wigan lib. of 17th- and 18th-cent. theol. works, lib. of St. Mary's Church, Warwick, and Baskerville collection.

**MUSEUMS** Anat., dent, geol., mining, pathol., physiol., zool.; herbarium (bot.).

**LABORATORIES** Chem. (special org., phys., electro-chem., analyt. and pub. health depts.); phys. (incl. electron phys.), biol., genetics, engin. (incl. electr., mech., prodn., civil and chem.), metall. (phys. and indusct.), mining & minerals engin. (exceptionally well equipped, exper. coal-mine), making & brewing; biochem.; med.; physiol.; pathol.; cancer res.; pharmacol.; bacteriol., power-station supplying whole univ.

with lighting, heat and power. A small Observatory is attached to the dept. of phys.

**HOSPITALS** 1200 for clin. instructn.—United Birmingham Hosps (General, Q Elizabeth, Birmingham and Midland Hosps for Women, Children's, Nerve and Dental), and 14 other hosps. for sp. teaching under the control of the Birmingham Regional Hosp. Bd.

**BARBER INSTITUTE OF FINE ARTS**, Edgbaston, Birmingham, 13 (tel. Selly Oak 0562, music dept., Selly Oak 0622). The inst. was founded by the late Dame Martha C. H. Barber, who created a trust to promote the study of the fine arts and of music in the univ. Courses in fine arts are given for the cultural benefit of all students, and in some cases form pt. of work required for degrees in other depts. Concerts of chamber music are arranged by the prof. of music, and the univ. musical soc. holds mudday concerts during term. The inst. contains several galleries and rooms for the exhibition of paintings, drawings, prints, furniture, art-objects and tapestries; a small concert hall, and libraries and admin. offices. (For dir., see p. 912).

**INSTITUTE OF CHILD HEALTH** (completed 1961) was built with funds provided by Nuffield Provincial Hosps. Trust. The inst. co-ordinates the activities of the univ. dept. of paediatrics & child health, the Birmingham Children's Hosp., the Birmingham maternity & child welfare and sch. health services, and the coll. of General Practitioners. Principal functions are undergrad. and postgrad. teaching, paediatric res. and liaison with local authority med. officers and general practitioners.

**SHAKESPEARE INSTITUTE**, Stratford-upon-Avon, Warwickshire (tel. Stratford-upon-Avon 3138). The purpose of the inst. is primarily to promote advanced work in Shakespeare studies and in related subj.,—the Elizabethan age, drama and theatre. See also p. 915.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). The inst. exists primarily to co-ordinate the training of teachers in the W. Midlands area under the general responsibility of the univ. and to recommend to the Ministry of Educn. for qualification those students who have satisfactorily completed their training. A cert. in educn. is granted to students after 1-yr., 2-yr. and 3-yr. courses of trg. A 1-yr. full-time or 3-yr. pt.-time course for dipl. in educn. has been instituted, and is open to qualified teachers with not less than 5 yrs' approved professional experience. A supplementary cert. is offered to candidates who successfully complete 1-yr. full-time supplementary courses. The inst. also offers courses in youth service (2 yrs. full-time), maths. (2 yrs. pt.-time) and sch. librarianship (2 yrs. pt.-time).

The inst. maintains a strong res. dept., the staff of which are members of the univ. educn. dept. The res. dept. includes a dept. of child study situated at Selly Wick House, Selly Wick Rd., Birmingham, 29. The inst. publishes a journal,

*Educational Reviews*, 3 times a yr. The governing body of the inst. is the delegation, which is responsible to senate.

Constituent and associated colls. of the inst. (a) *Constituent colls.*: Anstey Coll. of Phys. Educn, Sutton Coldfield; City of Birmingham Coll. of Art and Crafts, Margaret St., Birmingham, 5; City of Birmingham Trg. Coll., Westbourne Rd., Birmingham, 15; City of Coventry Trg. Coll., Charter Ave., Coventry; Dudley Trg. Coll., Castle View, Dudley; Hereford Trg. Coll., Hereford; Malvern Teachers Coll., Bromford Lodge, Wolverhampton; St. Paul's Trg. Coll., Newbold Revel, Stratton-under-Posey, nr. Rugby; St. Peter's Coll., Birmingham, 8; Sherborne Trg. Coll., nr. Kidderminster; Shropshire Coll. of Domestic Science and Dairywork, Radbrook, Shrewsbury; County of Stafford Trg. Coll., Nelson Hall, Stafford; Westhill Trg. Coll., Selly Oak, Birmingham, 20; Wolverhampton Day Trg. Coll., Walsall St., Wolverhampton; Wolverhampton Tech. Teacher Trg. Coll., Wulfruna St., Wolverhampton; City of Worcester Trg. Coll., Henwick Grove, Worcester, dept. of educn.; The Univ., Birmingham. (b) *Associated colls.*: Birmingham & Midland Inst. Sch. of Music, Paradise St., Birmingham, 1; William Temple Coll., Rugby.

The inst.'s headquarters are at Institute House, 50 Wellington Rd., Edgbaston, Birmingham, 15 (tel.: Calthorpe 3332).

**INSTITUTE FOR ENGINEERING PRODUCTION**, Southfield, Norfolk Rd., Edgbaston, Birmingham, 16 (tel.: Edgbaston 0390). The inst., which is under the direction of the hd. of the dept. of engin. production, was opened in 1953, and provides a series of short courses of study and discussions on a residential basis for production engineers, operational res. personnel and indust. managers. See also p. 915.

**INSTITUTE FOR ADVANCED STUDIES IN ENGINEERING SCIENCES**. The inst. was established in 1962 as a centre of inter-dept. res. and inter-dept. postgrad teaching in engin. sci. It consists initially of a division for machine tools, materials and management, involving the collaboration of a number of depts. in the fac. of sci. (which incl. appl. sci.). It is intended to establish further divisions in due course to cover other fields of engin. devel. which require the co-operation of several depts.

**INSTITUTE FOR THE STUDY OF WORKSHIP AND RELIGIOUS ARCHITECTURE**. This inst. was established in 1962 within the fac. of arts, in close assoc. with the dept. of theol.

**ADMISSION** See Appendix III.

**NON-MEMBERS OF THE UNIVERSITY**. Occasional students, who are not matriculated or of grad status, who wish to enter the univ. for the purpose of attending individual courses, must supply evidence, satisfactory to the dean of the fac. and the hd. of the dept., that they are qualified to enter

upon such courses. Such students will be subject to the univ. regns., but are not entitled to wear academic dress.

**FIRST DEGREES**. 3 yrs.—BA (spec.), BA (combined subjs.), BSc in pure sci., BSc in appl. sci., BCom, BScSc, LLB; 3 or 4 yrs. according to qualifn. on entry—BMus;  $\frac{5}{2}$  yrs.—BDS; 6 yrs.—MB ChB.

Candidates who do not reach the required standard for an hon. degree in any fac. may qualify for an ord. degree.

BA with hon. may be obtained in any one of the following ap. scis.: classics, Latin, Greek, anc. hist. & archaeol., anc. & mediev. hist., mediev. & mod. hist., Engl., French, German, Italian, Russian, Spanish, philos., soc. & pol. philos., math., geog., theol., linguistics. Hon. may also be obtained in the exam for the BA degree in combined subjects.

BSc hon. in pure sci. may be taken in any of the hon. scis. in math., math. phys., phys., chem., zool., bot., genetics, bacterial, microbial, geol., geog., anatomical studies, physical studies, med. biochemical studies. BSc hon. in appl. sci. may be taken in engin. (mech., civil, elect., chem., petroleum prodn.), metall. (phys. or indust.), mining (coal or metal) & materials engin. and biotech. Courses in mining involve practical work underground.

Candidates who, before admission, pass certain exams of other approved univs. in sci. or engin., may be permitted to take the final exam. for the BSc (hon.) at the end of their 1st yr. and to do advanced or res. work in their 3rd yr.

Subject to certain provisos, grads of Oxford with hon. in the final hon. sch. of nat. sci. (engin. sci.) or of Cambridge with 1st or 2nd class in mech. sci. types are eligible for the BSc degree in mining after a yrs' study at Birmingham; suitable engin. grads of other approved univs. are also eligible for the degree under similar conditions.

**Prelim. science year**. There are ap. arrangements whereby candidates who have taken arts subjs. as their main subjs. at sch. may obtain a univ. trg. in the sci. Consideration for admission to this 1st yr. (of a 4-yr. degree course) may also be given to candidates from sch. where the facilities for teaching sci. are limited.

BCom with hon. (a) general course, (b) sch. of Russian studies, (c) for qualified sci. students. BScSc with hon. in sch. of econ., pol., & sociol.; soc. study, Russian studies; maths., econ. & statistics; geog.

Med. students may spend their 1st yr. at any sch. or schs of med. recog. by the univ., and the senate may recognize exams passed therein as exempting from the 1st med. exam. They may obtain the BSc as well as their med. degrees by devoting 7 yrs. instead of 6 to study in the univ.

**HIGHER DEGREES**. MA (by thesis resulting from res., or by prescribed course of study and exam.), MEd (1 yr. full-time or 3 yrs. pt-time prescribed course, exam and thesis), MCom,

**MSocSc** (by prescribed course of study and exam), **MMus**, 1 or 2 yrs. after bachelor's degree, **MSc** (may be taken in appl. geophys., engin. prodn., chem. engin., indust. metall., electr. machinery, radioactivity, radiobiol., thermodynamics, coal precipitation, reactor phys. & technol., foundation engin. & highway engin., information engin., operational res., biol. engin., as well as in other sci. subjects), 1 yr. after BSc honours or 2 yrs. after BSc in sci., several depts. provide courses of study and exams. (as distinct from res. facilities) for **MSc**; **LLM**, 2 yrs. (exceptionally, 1 yr.) after **LLB**; **BD**, not less than 2 yrs. after a bachelor's degree approved by the fac. of arts, **MD**, **ChM**, **MDS**, 5 yrs (grade of other approved univs. must have completed 2 yrs.) approved 1st. at **Birm**) after bachelor's degree, **PhD** (in any fac.), 2 yrs.; **DLatt**, **DMus**, **DSc**, **LLD**, **DD**, **DSocSc**. With the exception of **DLatt**, **DMus** and **LLD**, the above higher degrees are open to grads. of other univs. who fulfil fac. requirements for the degree.

The **DMus** or **LLD** may be taken 3 yrs. (**DLatt** 5 yrs.) after the **MA**, **MMus**, **MSc** or **LLM**, or 5 yrs. (**DLatt** 7 yrs.) after the corresp. bachelor's degree; **DSc**, 4 yrs. after **MSc**, or 3 yrs. after **PhD**, whichever time is shorter; grads. of other approved univs. after not less than 2 yrs.' postgrad. work in this univ. provided that at the time work is submitted for degree they are at least of 5 yrs.' standing from bachelor's degree; **DD**, 5 yrs. from date of **BD** or other second degree, **DSocSc** may be taken 3 yrs. after **PhD**, or 5 yrs. after master's degree or 7 yrs. after bachelor's degree.

**HONORARY DEGREES** **MA**, **MEd**, **DLatt**, **DD**, **LLD**, **MD**, **DSc**, **DSocSc**.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS** Theology, normally 2 yrs for grads. of approved univs., education, 1 yr full-time or 2 yrs. pt-time; psychol. of childhood, 1 yr. for grads. and other approved persons; educnl. psychol., 1 yr. postgrad. for grads. of approved univs. who have obtained BA or BSc honours in psychol. or who have pursued approved courses in psychol. and who have had not less than 1 yr.'s teaching experience; for teachers of educationally sub-normal children, 1 yr.; commerce, 1 yr. for grads. of approved univs. subject to approval by fac., pub. admin., 1 yr. for grads. (in any fac.) of univs. in the United Kingdom; soc. study, 1 yr. for grads. preparing for work in the soc. services; soc. work, 1 yr. for grads.; malting & brewing, 3 yrs., 1 yr. for grads., engin. production & management principles, 1 yr. postgrad. course; dipl. in grad. studies, biol. engin. (1 yr.), petroleum prodn. engin. (1 yr.), indust. metall. (1 yr.), thermodynamics & related studies (1 yr.), mathl. phys. (1 yr.); civil engin., foundation engin. & traffic engin. (1 yr.), highway engin. (1 yr.), mathl. statistics (1 yr.); electr. engin. (information engin. & electr. machines) (1 yr.), mining (1 yr.)

**CERTIFICATES** Educn. (1-yr. postgrad. and

2-yr. non-grad. courses), theol. (2-yr. non-grad. course), malting & brewing (2 yrs.), malting (2 yrs.); soc. study (2 yrs. for non-grads.), child service (1-yr. course to train suitably qualified persons as children's officers and their assts.); supplementary certs. in divinity, school librarianship and for teachers of blind children (1-yr. courses). See also 'Institute of Education', above.

**RESEARCH.** A pt. standing citize. of senate and council co-ordinates res. work in all facs., formulates policies of res., obtains funds and co-operates with govt. agencies and external bodies. Its *Annual Report* gives general summary of each yr.'s depts. res., lists publd. work and titles of theses approved for higher degrees.

**STUDY LEAVE** is given as frequently as possible, usually for 1 term.

**FEEES** *Compounds annual fees* (covering tuition, exam and graduation fees, and membership of guild of undergrads.). Bachelor's degrees: **BA** and **BMus**, £68, **BD**, £68; **BSc**, £83, **MB ChB**, £83, **BDS**, £83 (6th yr., 1 term, £27.13s.4d.); **BCom** and **BSocSc**, £68, **LLB**, £68. Higher degrees: **MA**, **MMus**, **MCom**, **MSocSc**, **LLM**, **MSc** (without lab. facilities), £68, **MSc** (with lab. facilities) and **MSc** (grad. studies except in engin. prodn. & radiobiol.), £88, **MSc** (grad. studies: engin. prodn. & radiobiol.), £98, **PhD** (without lab. facilities), £68; **PhD** (with lab. facilities), £88. *Dips. and certs.*: dipl. in theol., 1st yr.—£43, and yr.—£8, dipl. in psychol. of childhood, £68; dipl. in educnl. psychol., £78; dipl. for teachers of educationally sub-normal children, £68, dipl. in engin. prodn. & management principles, £98; dipls. in grad. studies, £88 (mathl. phys. and mathl. stats, £68); dipl. in malting & brewing, postgrad. dipl. in malting & brewing, £68; cert. in malting & brewing, £68; cert. in malting, £68, *graduates' commence dipl.*, £68, dipl. in pub. admin., £68, soc. study dipl., separate class fees with an addnl. charge of £7.5s., soc. study cert., £45, child service cert., £88, dipl. in soc. work, £88; cert. in educn., £68, dipl. in educn., £50; supplementary certs. in divinity, £58; for teachers of blind children, £78, and in maths., £38.

**ACADEMIC YEAR** Oct. to July: 3 terms of 9 or 10 wks each.

**VACATION COURSES** A 6 wks' summer sch. on Shakespeare and Elizabethan lit. is held annually at Stratford-upon-Avon during July and Aug. It is concerned with the detailed study of Elizabethan and Jacobean drama and theatre with particular reference to Shakespeare, together with the historical and cultural background of the plays. The summer sch. is primarily intended for grads. and other advanced students from Commonwealth, American and European univs. who have specialized in Elizabethan and Jacobean lit. The dept. of extra-mural studies also possesses its own archaeol. centre based on work at the Roman city of Viroconium at Shrewsbury; during the summer a no. of residential courses in excavation techniques and ancillary subjs. are held. Other

courses are arranged with the residential colls. for adult edn in the W. Midlands. An annual summer sch. is also held, in England or on the continent, in conjunction with the W.E.A. Study tours are arranged annually.

**UNIVERSITY BOARD OF ADULT EDUCATION** (see also 'Teaching Staff', above). The bd. supervises all the extra-mural work of the univ. Univ. extension courses, tutorial, seasonal and short courses, summer schs. and other residential courses are held in Birmingham and at centres throughout the W. Midlands. There is a jt. cttce for work with the W.E.A. and another for services edn.

**POSTGRADUATE AWARDS** open to grads. of other univs. - see p. 910.

**RESIDENCE.** (For wards, see 'Admin. and Other Staff', above). For women: Univ. House, Edgbaston Park Rd., Birmingham, 15 (tel. Sel 0115) (155 students), fees £137 to £151 per session. For men: Chancellor's Hall, Augustus Rd., Edgbaston, Birmingham, 15 (tel. Edg. 2464) (130 students); fees £166-2s. 6d. with rebate to those sharing rooms. Chad Hill, 125 Humber Rd., Birmingham, 15 (tel. Edg. 0155) (32 students), mainly intended for grad. and res. students; fees: from £4-15s to £5-5s. per wk., plus small extras. The Manor House, Bristol Rd. South, Birmingham, 31 (tel. Pri 1631) (150 students), fees £4-15s. 6d. to £5-5s. per wk., plus small extras.

**APPOINTMENTS BOARD** (For officers, see 'Admin. and Other Staff', above). The functions of the bd. are to provide information and advice on careers and to assist grads. of the univ. to obtain suitable employment. The services of the bd. are available without charge to all grads. and undergrads. of the univ. *Postal address* (see), The Univ., Birmingham, 15; tel. Selly Oak 1301.

**GUILD OF GRADUATES.** The guild is entitled to appoint one rep. for every 250 of its members to serve on the univ. court of governors, the present number of reps being 31. One rep. of the guild is a member of the univ. council. A *News-letter* is circulated annually to all members.

**UNIVERSITY OF BIRMINGHAM OFFICERS TRAINING CORPS.** Cadets may join for various periods of service which are flexible to enable them to undertake trg. without interfering with their univ. degree course. The contingent comprises the following sub-units: Royal Signals, Infantry, Royal Electrical and Mechanical Engineers. Minimum trg. obligations are laid down for each yr. Suitable cadets may be recommended to War Office Selection Bd. Further information from the adjutant, U. of Birm. O.T.C., Edgbaston, Birmingham, 15 (tel. Selly Oak 0249).

**UNIVERSITY OF BIRMINGHAM AIR SQUADRON** is established to promote interest in R.A.F. at the univ. and to maintain close liaison in tech. and res. problems affecting flying; also to attract entrants of good calibre and learning into R.A.F.

by providing facilities for undergrads. to become acquainted with flying and its assoc. problems. Further information from the C.O., Univ. Air Squadron, The Univ., Edgbaston, Birmingham, 15 (tel. Edgbaston 4053).

**UNIVERSITY HEALTH SERVICE.** The purpose of this service, which is administered by a full-time univ. medical officer with one full-time asst. med. officer and two dent. surgeons, is to reassure students about the state of their health, to offer them opportunities for maintaining and improving it, and to help to secure early treatment for any disorders which may occur. All freshmen, excepting those eligible for exemption under the regns., are required to attend for a routine med. overhaul and to have a chest X-ray; the X-ray is repeated annually. Ophthalmic treatment under the national health scheme is also available.

**GUILD OF UNDERGRADUATES.** The guild, establd. under charter of univ., is the organized assocn. of the undergrads. for furtherance of their common interests, recog. by court, council and senate of univ. for this purpose; represented by 3 members on court of governors. Income of guild, derived from membership fees, is applied to upkeep of the union and univ. athletic union. There is full, assoc., external and hon. life membership.

**UNION.** All members of guild of undergrads. are entitled to use of the union, which adjoins the univ. bldgs. at Edgbaston.

**UNIVERSITY ATHLETIC UNION.** Membership of union open to full and assoc. members of guild of undergrads. provided they are amateurs. The union includes following clubs: *For men:* assoc. and rugby football, cycle-racing, golf, rowing, cross country running, weight-lifting. *For women:* lacrosse, netball. *For men and women:* athletics, basketball, badminton, cricket, hockey, judo, tennis, swimming, table tennis, sailing, squash, racquets, fencing, gymnastics, rifle. Extensive grounds, with pavilions, are at the service of the athletic union.

**UNIVERSITY STAFF CLUB.** Westmore, Edgbaston Park Rd., Edgbaston, Birmingham, 15 (tel. Edgbaston 0290).

**UNIVERSITY BOOKSHOP.** A small univ. shopping centre (opened 1962) includes a bookshop.

**PUBLICATIONS.** \* (A) *Official*.—Charter of Incorporation; Ordinances; Report of the proceedings of the Council of the Univ. (a); Report of the Vice-Chancellor and Principal to the Council (a); Accounts (a); Fees. Univ. of Birm. Gazette (7 issues p.a.); Calendar (a); Two syllabuses & Information pamphlets (a); Exam. papers (a) of each fac. and of Inst. of Educn.; Scholr. pamphlet (a); Register of degrees (1900-15; 1916-47, o/p; 1948-56; 1956-59); Proceedings at a congregation of the Univ. (June and Dec.); Annual sermon delivered at Univ. service (a); Report of Jt. Standing Cttce for Res. (a); Appts. Bd. report (a); Librarian's

\* Abbreviations: (a)—annual; (q)—quarterly; (s/s)—twice annually

report (a); Univ. Library. Introduction and library regulations (a); Report of Dir. of Barber Inst. (a); of Barber Prof. of Music, of Bd. of Adult Educn. (a); of Inst. of Educn., 1947-50, from 1951 onwards (a). (B) *Periodicals and Monograph Series*.—Birm. Univ. Historical Jnl., 125 6d. (a); Bulletins on Soviet Econ. Devel. (a); Educat. Review, 5s (a); Engl. and Germanic Studies, 25s. 6d.; Fac. of Comm. Monographs and Studies in Econ. and Soc. (irregular) (15s. each); Shakespeare Survey, £1. 1s (a). (C) *Guild of Grad.*—Grads. News-letter (a); Med. Grads. News-letter (a); Register of Grads. up to 1957 (D) *Guild of Undergrads*.—Annual Report; Diary (a); Guild News (weekly in term); The

Mermaid (a/a); Carnival Magazine (a). (E) *Student Societies*.—Birm. Univ. Chem. Engneer, 3 issues p a (6s p.a.); Mining Technical Magazine (a); Queen's Med. Magazine (each term); Holdsworth Club, Presidential address (a) (F) *Histories*.—Souvenir History of the Foundation and Development of the Mason Science Coll. and the Univ. of Birmingham, 1880-1930, by Prof. F. W. Burrell and C. G. Buxton (1930); The Med. Sch. of the Univ. of Birmingham, by S. Barnes (1938); The Univ. of Birmingham, a short history by Emer. Prof. A. M. D. Hughes (1950); The Univ. of Birmingham, its History and Significance, by E. W. Vincent and P. Hinton (1947)

## THE YEAR 1961

**PRINCIPAL BENEFITATIONS.** Appeal for halls of residence, £1,467,028 (total to Dec. 1961); H. Summer, £30,000; United Birmingham Hosp., £30,000; Med. Res. Council, £30,000; estate of F. Barnes, £29,000; Ford Foundation, £44,000. (Total value of all benefitations received: £1,615,000).

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: refectory & staff house; room for dept. of educn. Approaching completion: clinics block-rheumatism wing.

**NEW DEPARTMENTS AND CHAIRS.** Personal chairs: taxonomic bot. (Dr. J. G. Hawkes), electr. engn. (Mr. J. T. Allanson), neuro-endocrinol. (Dr. J. T. Eayrs)

**RETIREDMENTS.** Miss M. Galway (lectr. in Engl.), Prof. A. Nicoll (Engl.), Prof. C. F. V. Smoot (anat.); W. D. Twist (accountant)

**RESIGNATIONS.** Dr. D. A. Bell (electr. engn.), apptd. to post in industry; B. M. Bland (dep. librarian), apptd. librarian, S'ron.; K. J. Durlands (mech. engn.), apptd. to U.K.A.E.A.; R. J. Evans (civ. engn.), apptd. lectr. in Calif.; R. S. Good (mech. engn.), apptd. to post in industry; W. M. Gorman (econometrics & soc. stats.), apptd. to chair of econ., Oxford; R. Higgins (sociol.), Dr. E. W. Ives (Shakespeare Inst.), apptd. asst. lectr. in med. hist. & Lit.; Dr. C. R. Lowe (soc. med.), apptd. to chair of hyg. & pub. health, Welsh Natl. Sch. of Med.; A. S. Mackintosh (econ.), apptd. dep. dir., Overseas Devel. Inst.; Dr. C. Rainbow (biochem.), apptd. to post in industry; T. H. Richards (civ. engn.), apptd. to post in industry; Dr. A. B. Robbins (phys.), apptd. asst. prof. of phys., Rutgers; Dr. M. A. Serech (French), apptd. lectr. in French, Univ. Coll., Lond.; Dr. E. F. Stoddart-Forsyth (electr. engn.), apptd. asst. lectr. in phys., Ont.; Dr. S. J. Taylor (pure maths.), apptd. lectr. in maths., Westfield Coll., Lond.; F. Estelle Waldron (soc. study), Dr. F. C. Walker (surg.), apptd. reader in surg., Durh.

**DEATHS.** W. G. Alais (sr. lectr. in engn. pedn., 1937-61); Emer. Prof. T. Bodkin (Barber prof. of fine arts, dir. of inst. of fine arts, 1935-52); Prof. R. R. Betts (prof. of hist., 1944-46); Miss

A. M. Grutter (res. staff tutor, dept. of extramural studies), Miss I. Gurland (lectr. in educn., 1955-61); Dr. F. Raw (lectr. in geol., 1897-1945)

**HONORARY DOCTORS.** DSc.—J. B. Adams, dir. gen. of C.E.R.N.; Prof. P. B. Medawar, Jodrell prof. of zool. & compar. anat., Univ. Coll., Lond.; Sir Herbert Manzoni, city engineer and surveyor, Birmingham; Prof. A. F. Cournand, prof. of med., Columbia Univ. Coll. of Physicians & Surgeons. DSc.—K. G. Myrdal, formerly exec. sec., U.N. Econ. Commission for Europe. LL.D.—L. Farrer-Brown, dir. Nuffield Foundation; Prof. J. Mackintosh, dir. of med. educn. & trg., W.H.O. DLit.—J. Beytman

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	5619	170
Women	1049	53
Total	6668	223

Distribution by Faculties. Arts, 1137; comm. & soc. sci., 323; law, 170; med., 696; sci., 2282  
Total: 4668

Included in the figures above are:—

Postgraduate students, 1014.

New admissions, 1967

Students from other countries, 494. (Counties from which largest numbers come: India, 45; Pakistan, 32; Canada, 31; Nigeria, 26; Trinidad, 22).

**DEGREES AWARDED (1960-61)** Arts: BA, 4; BA hon., 233; BMus hon., 6; MA, 21; MEd, 2. Comm. & soc. sci.: BCom, 3; BCom hon., 64; MCom, 3; MSc, 1. Law: LLB, 2; LLB hon., 31; LL.D., 1; LL.M., 1. Med.: MB ChB, 24; MB ChB hon., 2; MD, 4; MCh, 1; BDS, 26; MDS, 1. Sci.: BSc, 122; BSc hon., 300; MSc, 136; DSc, 4. PhD (all facs.): 123. Total number of first degrees awarded, 866

**DIPLOMAS AWARDED (1960-61)** Graduates' comm., 10; grad. studies, 25; matng. & brewing, 4; psychol. of childhood, 12; pub. admin., 4; soc. study, 3; soc. work, 5; theol., 16.

**CERTIFICATES AWARDED (1960-61).** Child service, 15; soc. study, 2

# UNIVERSITY OF BRISTOL\*

Founded 1909, previously established as University College, Bristol, 1876

Postal Address: Bristol 8, England  
Cables and Telegrams: University, Bristol 8  
Telephone: Bristol 24161

VISITOR—H. M. THE QUEEN

CHANCELLOR—The Rt. Hon. Sir WILSON CHURCHILL, KG, OM, CH, Hon. LLD *Balf., Harw., McG., Brussels, Lovain, Maastricht, Orléans, Aberdeen, Ley., St. Andrews, N.Y. State & Brat., Hon. DCL Oxon. & Roch., Hon. DPhil Hist. Oxon., Hon. LittD Camb., Hon. DLex Lond., Hon. DPhil Copenhagen, FRS* (ex officio President of Court, Council and Convocation)

PRO-CHANCELLOR—Sir ARTHUR HOBHOUSE, JP, MA Camb.; The LORD SENLAIR of CLYDE, KCB, KBE, MA Oxon., Hon. LLD, H. G. TANNER, JP, Hon. LLD

VICE-CHANCELLOR—Sir PHILIP MORRIS, KCMG, CBE, MA Oxon., Hon. LLD *Brat., McG., Rhodes, Assam., N.U.I. & W. Aust.*

PRO-VICE-CHANCELLOR—Professor Sir ALFRED PUGSLEY, OBE, DSc Lond., MICE, FRAES, FRS

CHAIRMAN OF COUNCIL—Sir WILTRID ANSON, MC, MBE, JP, MA Oxon.

TREASURER—B. CLARK

LIBRARIAN—J. S. COV, MA Oxon.

REGISTER AND SECRETARY—H. C. BUTTERFIELD, MA(Com) *Manx.*, Hon. MA

BURGER—C. M. SINGH, JP, BA Oxon.

FINANCE OFFICER—D. C. A. SMITH, Hon. MA, FCA

## TEACHING STAFF

(†=Part-Time)

<b>Agricultural Economics, see Econ.</b>		Madelin, M. F., BSc PhD Lond. (Mycol.) Lectr. Sims, A. F., BSc PhD Lectr. Harley, R. M., BA Oxon. (Cytol. & Exper. Taxonomy) Asst. Lectr.
<b>Anatomy</b>		† Demr
Yaffey, J. M., MD DSc <i>Manx.</i> , FRCS	Prof. Lectr.	
Metcalf, W. K., MB BS <i>Duch.</i> , MD	Sr. Lectr.	
Hudson, G., BSc MD ChB <i>Manx.</i>	Lectr.	
Osmond, D. G., BSc MB ChB	Lectr.	
Rich, W. J. C. C., MB ChB	Demr	
Tidman, M. K., MB BS Lond.	Demr.	
Cummins, B. H., BA <i>Alta.</i> , MB ChB	Demr.	
Roy, R. R., MB ChB	Demr.	
Noale, Mrs. Phyllis M., MB ChB <i>Burm.</i>	† Demr.	
<b>Botany, see also Assoc. Instn., p. 937</b>		
Yemm, E. W., BA DPhil Oxon.		Couper, A., BSc PhD Sr. Lectr. Seymour, R. C., BSc Sr. Lectr. Dunning, Mrs. Kathleen W., BSc Lectr.
Hawker, Lilian E., DSc PhD Lond.		PhD Lond. Lectr.
Folkes, B. F., BSc PhD		Reader (Mycol.) Lectr.
Fraymouth, Joan E., MSc PhD Lond		Lectr. (Inorg. C) Lectr.
Hepo-Simpson, J. F., MA DPhil Oxon.		Lectr. (Inorg. C) Lectr.
Willis, A. J., BSc PhD		Lectr.
Round, F. E., BSc PhD <i>Birm.</i>		Lectr.
Frost, L. C., MA PhD Camb. (Genetics)		Lectr.
		Maxted, E. B., DSc Lond., PhD <i>Bari.</i> (Catalysis) †Sp. Lectr.
		Stone, F. S., PhD DSc Lectr.
		Woodward, P., BSc PhD (Inorg. C) Lectr.
		Huish, N. S., MSc <i>Syd.</i> , DSc <i>Manx.</i> (Inorg. C) Lectr.
		Parsons, R., PhD Lond., DSc Lectr.
		Barron, T. H. K., MA DPhil Oxon. Lectr.
		Abel, E. W., BSc <i>Water</i> , PhD Lond. Lectr.

\* Member of the Association of Universities of the British Commonwealth

Cruickshank, A. J. B., BSc *Med.*,  
MSc *Syd* (Phys. C.) Lectr.  
Nickless, G., BSc PhD (Inorg. C.) Lectr.  
Leadbetter, A. J., BSc PhD *Law* Lectr.  
Honey, A. W., MSc *Land* Lectr.  
MacKenzie, K., BSc PhD *Land* Lectr.  
Grant, D. H., BSc PhD *Glas* Res. Fellow  
Munn, R. J., BSc PhD Jr. Fellow  
1 Res. Asst.

**Chemistry, Organic, see also Assoc. Instns.,**  
p. 937

Baker, W., MA *Oxon.*, DSc *Manc.*, FRSE  
A. C. Pass Prof.  
McOmie, J. F. W., MA DPhil *Oxon.*, DSc  
Reader  
Ollis, W. D., BSc PhD Reader  
Hough, L., MSc PhD *Manc.*, DSc Lectr.  
Barton, J. W., BSc PhD Lectr.  
Sutherland, I. O., MA PhD *Cambr.* Lectr.  
Binks, R., BSc *St. And.*, PhD Lectr.  
6 Res. Assts.

**Classics**

Beaz, W., MA *Dub.*, Hon. DLitt *Leeds*  
(Latin) Prof.  
Hammond, N. G. L., DSO, MA *Cambr.*  
(Greek) H. O. Wills Prof.  
Cook, J. M., MA *Cambr.*  
(Anc. Hist. & Class. Archaeol.) Prof.  
Eichholz, D. E., MA *Cambr.* Reader  
Warmington, B. H., MA *Cambr.*  
(Anc. Hist.) Reader  
Gulley, N., MA *Oxon.*  
(Classics & Anc. Philos.) Sr. Lectr.  
Tester, S. J., BA *Leeds* Lectr.  
Campbell, D. A., BA *Oxon.*, MA *Glas.* Lectr.  
MacQueen, J. G., MA *St. And.* Lectr.  
Harrist, Rosemary M., BA *Leeds* Jr. Fellow

**Dentistry, see below**

**Domestic Science, see also Assoc. Instns.,**  
p. 938

Bradshaw, Nancie E., BA *Leeds* Lectr.  
McQueen, Eileen, BSc *Dub.* Tutor

**Drama**

Wickham, G. W. G., MA DPhil *Oxon.* Prof.  
Rowell, G. R., MA BLitt *Oxon.* Sr. Lectr.  
Brands, G. W., BA *Leeds*, MA *Manit.* Lectr.  
Jones, Marion, MA BLitt *Oxon.* Lectr.  
Brooke, Iris E. M. Sp. Lectr.  
Southern, R., DLitt  
(Theatre Archt. & Stage Des.) †Sp. Lectr.  
Amley, R. H. †Sp. Lectr.  
Brenner, N. †Sp. Lectr.  
May, V. G. D. †Sp. Lectr.  
1 Res. Asst.

**Economics**

Dickinson, H. D., MA *Cambr.* Prof.  
Tress, R. C., BSc(Econ) *Leeds*. (Pol. E.) Prof.

Amey, L. R., BSc *Adel.*, BA PhD *Nott.*  
(Accog.) Prof.

Clarke, D. K., CBE, MA *Cambr.*  
Dir., Sch. of Management Studies

Giles, B. D., MA *Oxon.* Sa. Lectr.  
Shaw, Lulu A. E., MA *Oxon.*

(Soc. Studies) Sr. Lectr.  
Fleming, J. M., BComSc *Belf.* Sr. Lectr.  
Broome, F. S., MA *Oxon.* Lectr.

Robertson, N., MA BSc *Aberd.*,  
BLitt *Oxon.*

Lectr., Tutor in Management Studies  
Sampson, R. V., MA DPhil *Oxon.*

(Govt.) Lectr.  
Clements, R. V., BA BLitt *Oxon.*, MA *Wis.*  
(Govt.) Lectr.

Whitaker, J. K., BA(Econ) *Manc.*,  
AM *Johns H.* (Mintl. E.) Lectr.

Butler, Barbara M. I., MA *Oxon.*  
(Soc. Studies) Lectr.

Bates, J. A., BA PhD *Nott.* Lectr.  
Buchanan, R. T., MA *Aberd.*, PhD *Edin.* Lectr.

Hart, P. E., BSc(Econ) *Leeds*  
(Econ. Stats.) Lectr.

Mills, G., MA *Cambr.* (Econ. Stats.) Lectr.  
O'Leary, P. J., BA *Wales*, BPhil *Oxon.* Lectr.

Magee, R. T. J., BCom *Leeds* (Accog.) †Lectr.  
Counwell, S. V. P., MA *Oxon.* (Accog.) †Lectr.

Gough, J. O., BA (Accog.) †Lectr.  
Hines, A. G., BSc(Econ) *Leeds* Asst. Lectr.

Barker, A. P., MA *Nott.* (Pol.) Asst. Lectr.  
Lopman, Kate, PhD *Leeds*, DPhil *Berl.*

Res. Fellow  
Bancey, H. E., MSc PhD *Leeds*  
(Rural Sociol.) Res. Fellow

Loasby, B. J., BA BLitt *Cambr.*  
(Management Studies) Tutor

Holton, C. W. D. (Soc. Casework) Tutor  
Harrop, Enid M., BA *Leeds*

(Econ. Stats.) Res. Asst.  
Ashton, J. G., BA *Birm.* (Econ. Stats.) Res. Asst.

**Economics (Agricultural Economics)**

Bristol Province  
Wragg, S. R., MA Sr. Lectr.  
Jeffery, R. R., BSc(Agric) BSc(Econ) *Leeds*

Lectr.  
Baker, V., BSc(Econ) *Leeds* Lectr.  
Cowie, W. J. G., MA *Aberd.* Lectr.

Fekete, E. B., LL.D. *Bud.* Lectr.  
Geddes, T. E., BSc *Wales*, MS *Leeds* Lectr.

Mitchell, G. F. C., BSc(Econ) *Leeds* Lectr.  
Randell, J., BSc *Leeds* Lectr.

**Education**

Wilson, R. C., MA *Oxon.* Prof.  
Morris, B., BSc *Edin.* *Glas.* Prof.

Humphreys, D. W., MA *Leeds* St. Lectr.  
Pye, Margaret W., BA PhD *Leeds* Sr. Lectr.

Jarman, T. L., MA BLitt *Oxon.*,  
AM *Harv.* Lectr.

James, W. S., MSc *Leeds* Lectr.

Vinnicombe, Ellen J., MA Camb,  
BSc Lond.

Hickman, Gladys M., MA PhD Lond.

Michael, I., BA Lond.

Scott, D. W., MA Camb

Tait, Marjorie, BA PhD Lond.

Jervis, Margaret E., MA Edin

Hinsman, C. L., MA Camb.

Hull, L. W. H., MA Camb.

Richardson, J. Elizabeth, MA Lond.

Beckell, C. J., BSc Lond.

Cope, Edith, MA Lond.

Bolles, R. W., MA Camb., BLitt Oxon

(Residential Care of Children) Res. Fellow

## Engineering, see below

### English

Knights, L. C., MA PhD Camb

Tucker, Susan I., MA Oxon.

Gifford, C. H., MA Oxon.

Joseph, B. L., MA DPhil Oxon

Wintonsake Prof.

Sr. Lectr.

Sr. Lectr.

(E Lit.) Reader

Cottle, A. B., MA Wales, PhD

Reynolds, A. B., BA

Cross, J., MA

Preston, J., MA BLitt Oxon

Bishop, J. B., BLitt MA Oxon.

Tomlinson, P. P., BA Camb

Tomlinson, A. C., BA Camb., MA Lond.

Wilders, J. S., MA PhD Camb.

Gaskell, R. W., MA Glas.

Goldsmith, Mrs. Margaret E., BA Lond.

Littlewood, J. C. F., MA Camb.

Boorman, A., MA BLitt Oxon

Sr. Lectr.

Sp. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Asst. Lectr.

Asst. Lectr.

### French

Stewart, W. McC., MA Dub.

Warne, F. J., BA Lond.

Gould, S. C., BLitt DPhil Oxon., BA

Morris, Mary G., MA Aberd.,

PhD Camb

Mellor, G., MA Manc.

Taylor, S. W., BA PhD

Nelson, D., BA Lond.

Day, D. A., MA Lond

Lavery, Mary R. A., BA Belf.,

DUMontparier

Hemphill, T. D., BA Oxon.

Figueras, F. M., BA Oxon.

Edwards, T. T., BA PhD Wales

1 Lecturer

Prof.

Sr. Lectr.

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Asst. Lectr.

Asst. Lectr.

Asst. Lectr.

Jr. Fellow

### Geography

2nd, R. F. E. W., MBE, MA Camb

Walker, P., MA Lond

Jennell, F. G., BSc PhD

2nd, A. M., BSc

2nd, A. E., BA

2nd, L. F., BSc

Jorgan, M. A., MA PhD Camb.

Smith, D. I., BSc Lond., MSc McG.

Harvey, D. W., BA PhD Camb

Prof.

Sr. Lectr.

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Asst. Lectr.

### Geology

Whitard, W. F., DSc Lond., PhD Lond. &

Camb., FRSE C Wilks Prof.

Phillips, F. C., MA PhD Camb (Petrol.) Reader

Ford, I. H., BSc Lectr.

Cowes, J. W., BSc PhD Lectr.

Savage, R. J. G., BSc Belf., PhD Lond Lectr.

Bradshaw, R., MSc Lond Lectr.

Leake, B. E., BSc PhD Lau. Lectr.

Hamilton, D., BA MSc Cont

(Sedimentary Petrol.) Lectr.

Matthews, S. C., BSc Glas Asst. Lectr.

Murray, J. W., BSc PhD Lond Asst. Lectr.

### German

Closs, A. M., MA DPhil Oxon Prof.

Morgan, Mrs Estelle, MA PhD Edin Sr. Lectr.

Goodbody, Margaret, MA Lectr.

Raddcliffe, S., MA Lond Lectr.

Kath-Smith, B., BA Stos. Asst. Lectr.

Walker, C. A. S., BA Belf Asst. Lectr.

Leighton, J., MA Jr. Fellow

2 Lectors, 1 Sp Asst

### Hebrew

1 Recog. Teacher

### History

Deagins, D., MA Oxon., DUCam, FRA Prof.

Ashworth, W., BSc(Econ.) PhD Lond

(Econ. & Soc. H.) Prof

Jones, F. C., PhD Harv., MA

(Far Eastern H.) Reader

McGrath, P. V., MA Lond Sr. Lectr.

Ross, C. D., MA DPhil Oxon

(Medun H.) Reader

Sherborne, J. W., MA Oxon Lectr.

Marshall, P. D., MA Oxon. (Colonial H.) Lectr.

Ramsay, P. H., MA DPhil Oxon. Lectr.

Large, D., MA Oxon & Dub., BLitt Dub Lectr.

Cole, W. A., MA PhD Camb. (Econ H.) Lectr.

Storr, J. R., BA Lond., MA Oxon

(H of European Art) Lectr.

Cannon, J. A., MA Camb., PhD Lectr.

Lambert, M. D., MA BLitt Oxon Lectr.

Bethell, L. M., BA Lond Asst. Lectr.

Alford, B. W. E., BSc PhD Lond Asst. Lectr.

### Law

Coutts, J. A., MA LLB Camb (Jurisp.) Prof.

Hornby, J. A., MA LLB Camb. Prof.

Forrest, G. A., MA Oxon. Sr. Lectr.

Petrie, P. H., MA Oxon. Sr. Lectr.

Grodder, J. K., MA Oxon, BenDrost

Grenville Sr. Lectr.

Bain, K. H., LLB Lond. †Sp Lectr.

Pitt, F. W. C., LLB Lectr.

Adams, J. E., LLB Lectr.

Hunt, W. E. F., BA LLB Camb. †Lectr.

Young, Eileen M., BA Oxon., MA Aberd.

LLM Harv Asst. Lectr.

Beck, A., MA LLB Camb. Asst. Lectr.



**Mathematics, Applied**

- Howarth, L., OBE, MA PhD Camb.,  
BSc *Maths*, FRS Prof.  
Chester, W., MSc PhD *Maths* Reader  
Rogers, M. H., BSc PhD Lond., FRMetS Sr. Lectr  
Fowell, J. B. L., BSc PhD Lectr  
Moore, D. W., BA Camb. Lectr  
Draxton, P. G., BA PhD Camb. Lectr  
Paterson, A. R., BA Camb., MA *Edw* Lectr.

**Mathematics, Pure**

- Hellbroen, H. A., MA Camb., PhD *Gau*,  
FRS H. O. Wills Prof.  
Shepherdson, J. C., MA Camb. Reader  
Reutenberg, E. R., MA Camb. Reader  
Marstrand, J. M., DPhil *Oxon*, MA *Oxon*, &  
Camb. Lectr  
Hooley, C., MA PhD Camb. Lectr  
Burgess, D. A., BSc PhD Lond. Lectr  
Chapman, C. R. J., BA *Oxon* Asst. Lectr  
Gladstone, M. D., BSc Asst. Lectr  
Loveick, D., BSc *Natal* Jr. Fellow

**Mechanics, Theoretical, see Engineering, below****Medicine, see below****Metallurgy, see Engineering, below****Music**

- Grant, W., DMus *Durh.*, FRCO Stanley Hugh Bedock Prof.  
Byard, H., MA Lectr  
Mobbs, K. W., MA MusB Camb., FRCO Lectr.  
Beaumont, A., BA MMus *Waler* Asst. Lectr.

**Philosophy**

- Korner, S., JurDr *Prague*, PhD Camb., MA Prof.  
Alexander, P., BA BSc Lond. Reader  
MacLeod, J., Winifred, MA *Glas.*, BLitt *Oxon* Sp. Lectr.  
Kiekham, R. M., MA *Oxon*, Lectr.  
Edgley, R., BA *Mane.*, BPhil *Oxon*, Lectr.  
Naddich, P. H., MA PhD Lond. Lectr.  
Milligan, D. E., MA *Edin.* Lectr.

**Physical Education**

- Williams, A. I. J., BA *Oxon*. (Men) Lectr., Instr.  
Turner, Daphne G. (Women) Lectr., Instr.

**Physics, see also Chem., Inorg. and Phys.**

- Pryce, M. H. L., MA *Oxon*, & Camb.,  
PhD *Prin.*, FRS H. O. Wills Prof.  
Powell, C. F., MA PhD Camb., Hon. ScD  
*Dub.*, *Bordeaux*, *Warsaw*, & *Humboldt*,  
FRS Melville Wills Prof.  
Frank, F. C., OBE, BA BSc DPhil *Oxon*,  
Hon. DSc *Chem.*, FRS Prof.

**Thompson, N., BSc PhD *Sheff.***

- Burch, C. R., CBE, BA Camb., PhD Lond.,  
FRS Sr. Lectr. & Sr. Tutor  
Chambers, R. G., MA PhD Camb. Reader  
Perkins, D. H., BSc PhD Lond. Reader  
Fowler, P. H., DSc Reader  
Gibbs, D. F., BSc Lond. Sr. Lectr.  
Gibson, W. M., MA PhD Camb. Sr. Lectr.  
Kay, H. F., MSc PhD *Mane.* Lectr.  
Nye, J. F., MA PhD Camb. Lectr.  
Devonshire, A. F., MA PhD Camb. Lectr.  
Posty, A. J., BSc PhD Lectr.  
Long, A. R., MSc Lond., PhD Camb. Lectr.  
Freundlich, H. F., MA Camb. (Med. P.) Lectr.

- Parsons, D., BSc PhD *Sheff.* Lectr.  
Mercier, R. P., MSc *McG*, PhD Camb. (Theoret. P.) Lectr.  
Milne, J. G. C., MA Camb., PhD *Burm.* Lectr.  
Gill, J. C., BSc PhD *Mane.* Lectr.  
Smith, M. G., MA *Oxon* Lectr.  
Greenwood, D. A., MA PhD Camb. Lectr.  
Gagan, D., BSc PhD Lond. Lectr.  
Davies, J. H., BSc *Wales* G. Wills Res. Assoc.  
Foglia, M. E., *DranQu* *Buenos Aires*,  
PhD Res. Assoc.  
Baker, J. G., MA PhD Camb. Res. Assoc.  
Bassett, I. M., MSc PhD *Medb.* Res. Assoc.  
Burrow, J. H., BSc Res. Assoc.  
Malas, J., BE BSc *Q'nd.*, PhD *Syd.* Res. Assoc.  
Hertler, H., PhD Res. Assoc.  
Littleton, Marjorie J., BA Camb. Res. Assoc.  
Keller, A., DiplChem *Bud.*, PhD Res. Assoc.  
Bassett, G. A., MSc Lond. Res. Assoc.  
3 Res. Asssts., 1 Recog. Teacher

**Physiology**

- Brackleyhurst, R. J., MA DM BCh *Oxon*. Prof.  
Boch, S. J., PhD Camb. (Chem. P.) Reader  
Ashford, C. A., MA PhD Camb. (Chem. P.) Sr. Lectr.  
Cnrlyle, A., BA Camb., BVSc *Lou.* (Vet. P.) Sr. Lectr.  
Rogers, A. F., MD ChB Sr. Lectr.  
Cole, Anne S., BSc PhD Lond. Lectr.  
Barton, E. H., BSc *R'g.*, PhD Lond. (Vet. P. & Histol.) Lectr.  
Williams, T. D., BSc MD ChB *Leu.* Lectr.  
Carter, Sheila B., MSc PhD *Birm.* (Vet. P.) Lectr.  
Boss, J. M. N., BSc MB BS Lond.,  
PhD Camb. Lectr.  
Buxton, R. St. J., MB BS PhD Lond. Lectr.  
Phipps, C. F., MA DPhil *Oxon*. (Chem. P.) Lectr.  
Millington, F. F., MSc PhD *Birm.* (Histol.) Lectr.  
Barbour, R. F., MA Camb., MB ChB *Edw.*,  
DFM, FRCP (Psychol.) † Lectr.  
Hallett, C. P., MB ChB Demr.  
Shepherd, D. A. L., BVSc (Vet. Chem. P.) Jt. Fellow  
1 Recog. Teacher

**Psychology**

Hall, K. R. L., MA DPhil Oxon.  
George, P. H., MA Camb., PhD  
Pleydell-Pearce, I. W., BA PhD  
Grew, S., BSc Lond., PhD  
Powell, P. F., MA W. Ont., BA  
Claridge, G. S., BA PhD Lond.  
Jones, M. G. B., BSc R'dg.  
Crook, J. H., BSc Lond., PhD Camb.  
Murrell, K. H. F., MA Oxon.  
Spencer, J., BA Camb.  
: Res. Asst.

Prof.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Res. Fellow  
Res. Assoc.

Stack, M. V., MSc PhD Lond.  
Poole, D. F. G., BSc PhD

Res. Fellow  
Res. Assoc.

**Dental Surgery**

Bradford, E. W., MDS *Sheff.*, DDS  
*St And*  
Berry, D. C., MDS PhD  
(Prosth. & Dent. Surg.)  
Cooper, J. S., BDS  
Brooks, A. W., BDS  
Mortimer, K. V., BDS  
Nicol, W. A., DDO *Glas.*, LDS

Prof.

(Prosth.) Lectr.

(Prosth.) Lectr.

Lectr.

Lectr.

(Orthodontics) †(C)

†(C)

†(C)

†(C)

Connor, D. C., LDS

Tratman, E. K., OBE, MD *Malaya*, MDS,  
FDSRCS

Bakewell, W., LDS

Cooksey, M. W., BDS

4 Tutors, 8 Recog. Teachers

**Religious Knowledge**

Grayson, Rev. K., MA Oxon. & Camb. Sp. Lectr.  
a Recog. Teachers  
For teachers for the BA in theol. subjects, see  
Assoc. Instr., p. 938

**Russian**

Pearce, R. A., BA BLitt Oxon. Lectr.

**Social Studies, see Econ.****Spanish**

Metford, J. C. J., MA Lon.  
Bacarrisse, S., BA Lond.  
Keighley, R. G., BA Camb.  
Walker, R. M., BA Manc.  
Weston, Jean G., MA St And  
: Lectr.

Prof.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Jr. Fellow

**Zoology**

Harris, J. E., CBE, MA PhD Camb., FRs Prof.  
Kitching, J. A., OBE, MA ScD Camb., Reader  
PhD Lond., FRs  
Hinton, H. E., BSc Calif., PhD ScD Camb.  
FRs (Entomol.) Reader  
Basandale, R., MSc *Sheff.*, Sr Lectr.  
Slone, J. F., TD, BSc *Glas.*, Sp Lectr.  
Crofton, H. D., BSc PhD *Durh.*  
(Parasitol.) Lectr.

Whiting, H. P., DSC, MA PhD Camb.  
(Vertebrate Z.) Lectr.

Clark, R. B., BSc Lond., PhD *Glas.*, Lectr.

Wilson, R. S., BSc PhD *Edin.*, Lectr.

Caldwell, P. C., MA DPhil Oxon.  
(Biochem.) Lectr.

Oldfield, F. E., BSc *Edin.*, PhD Lond. Jr. Fellow  
a Dents.

**DENTISTRY**

(For subjects of first two years—Anat., etc.,  
see above)

**Dental Medicine**

Darling, A. I., DDS *Durh.*, FDSRCS Prof.  
Fletcher, J. P., BDS, FDSRCS Lectr.  
Thomas, N. R., BSc BDS Lectr.  
Wells, J., LDS, FDSRCS (Jurisp.) †Lectr.  
Simmonds, N. H., LDS  
(Dent. Radiol.) †(C)\*, †Lectr.

\* (C) = Clinical Teacher

**ENGINEERING****Aeronautical Engineering**

Collar, A. R., MA Camb., DSc Lond.,  
FRAS Sir George White Prof.  
Lawson, T. V., BSc Lond. Sr. Lectr.  
Boswell, R. P., MSc (Eng) Lond. Lectr.  
Tinkler, J., BSc PhD Lond. Lectr.  
Flower, J. W., BSc Lectr.  
Lloyd, D. H., BSc Lectr.

**Civil Engineering**

Pugsley, Sir Alfred, OBE, DSc Lond.,  
MICE, FRAES, FRs Prof.  
Gibbs, E. F., MSc PhD Lond. Sr. Lectr.  
Cullumore, M. S. G., BSc PhD Sr. Lectr.  
Laminch, W. J., MSc *Durh.* Lectr.  
Severn, R. T., BSc PhD Lond. Lectr.  
Park, R., MEng *N.Z.* Lectr.  
Smith, B. S., BSc *Manc.* Lectr.  
Shaw, T. L., BSc *Stow.* Asst. Lectr.  
Redwood, R. G., BSc Res. Asst.

**Electrical Engineering**

Ravcliffe, G. H., MA Oxon., DSc *Aberd.*,  
MIEE Prof.  
Sutcliffe, H., MA Camb. Sr. Lectr.  
Burridge, R. F., BSc PhD Lectr.  
Storey, D. J., MA Camb. Lectr.  
Johnston, W. G., MSc Lond. Lectr.  
Morton, P. L., MSc *Manc.* Lectr.  
O'Dell, T. H., BSc *Durh.* Lectr.  
Selthouse, E. C., BSc PhD *Belf* Lectr.  
Morgan, B. E., BSc Jr. Fellow  
Umbrist, W. P. Res. Assoc.  
Fong, W., PhD Res. Assoc.

**Mechanical Engineering**

Morrison, J. L., M., CBE, DSc, MIMechE Prof.  
Rogers, G. F. C., BSc Sr. Lectr.

Dearden, W. H., MSc *Metall.*, FIM, FRIC (Metall.) Sr. Lectr.  
 Meyhew, Y. R., BSc *Lead.* Lectr.  
 Bones, J. A., BSc Lectr.  
 Threlfall, P. M., MScTech *Mans.* Lectr.  
 Parry, J. S. C., BSc PhD Lectr.  
 Haines, D. J., BSc *Not.* Lectr.  
 Hollingsworth, M. A., BSc *Lead.*, PhD *Sten.* Lectr.  
 Andrew, C., MA *Camb.* Lectr.

### Theoretical Mechanics

Shepherd, W. M., DSc *Lead.* Prof.  
 Newing, S. T., BSc *Lead.* Sr. Lectr.  
 Gaydon, F. A., MSc *Lead.* Sr. Lectr.  
 Nuttall, H., BSc *Lead. & Mans.*, PhD *Birm.* Lectr.  
 Sowerby, L., MA *Camb.* Lectr.  
 Poots, G., BSc PhD *Belf.* Lectr.

Apley, J., MD *Lead.*, FRCP †Lectr., (C)  
 Cornes, Beryl, MD *Lead.*, FRCP †Lectr., (C)  
 Walker, Sarah C. B., MD DPH *Lead.* †(C)  
 Smallwood, A. L., MD DPH *Lead.* †(C)  
 3 Tutors, 4 Recog. Teachers

### Dermatology

Evans, C. D., OBE, MA MD BChir *Camb.* †(C)  
 Wallis, R. P., MD *Lead.* †(C)  
 2 Tutors

### Laryngology, Rhinology and Otolaryngology

James, J. A., MD *Lead.*, MB ChB, FRCS †Lectr., Hd of Dept  
 Fairman, H. D., MB BS *Lead.*, FRCS †(C)  
 Freeman, J., MB BS *Lead.*, FRCS †(C)  
 Macdonald, K. G., MB BCh BAO *Belf.*, DLO *Lead.*, FRCS †(C)  
 3 Tutors

### Medicine, see also Pathol., Pharmacol.

Perry, C. B., MD, FRCP Prof.  
 Read, A. E., MD BS *Lead.*, MRCP Lectr.  
 Gough, K. R., MD ChB Lectr.  
 Campbell, A. M. G., DM *Oxon.*, FRCP †Lectr.  
 Cates, J. E., MD *Lead.*, FRCP †Lectr.  
 Coles, D. R., BSc MD, MRCP †Lectr.  
 Davies, D. H., MD *Camb.*, FRCP †Lectr.  
 Nash, J. M., MA MD *Camb.*, FRCP †Lectr.  
 Kerley, G. D., OBE, MA MD *Camb.*, FRCP (Rheumatic Dis.) †Lectr.  
 Pearson, J. E. G., MA DM *Oxon.*, FRCP (Pulmonary Dis.) †Lectr.  
 Tovey, G. H., MD (Haematol.) †(C)  
 Gibson, C. R., MB ChB *Glas.* (Forensic M.) †Lectr.  
 Roberts, J. A. F., MA *Camb.*, DSc MD ChB *Edin.*, FRCP (M. Genetics) †Sp. Lectr.  
 Barratt, D. W., MD *Lead.*, MRCP †(C)  
 Alexander, A. J. P., MD BAO *Belf.*, MRCP (TB) †(C)  
 Craig, R. A., BSc MD *Lead.*, MRCP (TB) †(C)  
 Roberts, A. T. M., MD *Lead.*, MRCP (TB) †(C)  
 Mather, H. G., MD *Cleveland & Camb.*, MRCP †(C)  
 Macrae, J., MD DPH *Glas.*, FRFPSPGlas (Fever) †(C)  
 Walley, R. V., BA MD BChir *Camb.* (Fever) †(C)  
 Page, F. T., MD BS *Lead.*, MRCP †(C)  
 6 Tutors, 4 Recog. Teachers

**Bacteriology**  
 Cooper, K. E., BSc PhD *Leeds* Prof.  
 Gillespie, W. A., MA MD *Dub.*, DPH, FRCP (Clin. B) †Prof.  
 Mayr-Harting, Mrs Anna, MD *Prague*, PhD Lectr.  
 Linton, A. H., MSc PhD (Vet. B) Lectr.  
 Ware, G. C., MA PhD *Dub.* Lectr.  
 Hodges, A. J., BSc PhD Lectr.  
 Peacock, D. B., MB ChB (Virol. & Immunol.) Lectr.  
 Mitchell, R. G., BA BM BCh *Oxon.*, MRCP (Clin. B) Lectr.  
 Clayton, H. R., MB ChB †Lectr.  
 Clarke, Suzanne K. R., MD ChB (Virol.) †Lectr.  
 6 Recog. Teachers

### Mental Health

Davis, D. R., MA MD *Camb.*, MRCP North Cooke Hurle Prof.  
 Hemphill, R. E., MA MD BAO *Dub.*, DPM †Lectr.  
 Barbour, R. F., MA *Camb.*, MB ChB *Edin.*, DPM, FRCP †(C)  
 Leitch, A., MD *Glas.*, DPM *Lead.* †(C)  
 Heaton Ward, W. A., MB ChB DPM †(C)

### MEDICINE

(for subjects of first 2 yrs.—Arist., etc., see above)

### Anæsthetics

Clutton-Brock, J., MA MB BChir *Camb.*, FFARCS Lectr., Hd. of Dept.  
 Burton, G. W., BSc MB ChB *Leeds*, FFARCS Lectr.  
 Bradburn, E. G., FFARCS †Lectr.  
 Baxter, V. T., MB ChB, FFARCS †(C)\*  
 Fendley, G. L., MB ChB, FFARCS †(C)  
 Moore, R. H., MB ChB, FFARCS †(C)  
 Gorham, A. P., MB ChB, FFARCS †(C)  
 Taylor, J. T. C. †(C)  
 Challenger, J. H., MB ChB, FFARCS †(C)  
 Steen, T. R., MA MB BChir *Camb.*, FFARCS †(C)  
 6 Tutors

### Bacteriology

Cooper, K. E., BSc PhD *Leeds* Prof.  
 Gillespie, W. A., MA MD *Dub.*, DPH, FRCP (Clin. B) †Prof.  
 Mayr-Harting, Mrs Anna, MD *Prague*, PhD Lectr.  
 Linton, A. H., MSc PhD (Vet. B) Lectr.  
 Ware, G. C., MA PhD *Dub.* Lectr.  
 Hodges, A. J., BSc PhD Lectr.  
 Peacock, D. B., MB ChB (Virol. & Immunol.) Lectr.  
 Mitchell, R. G., BA BM BCh *Oxon.*, MRCP (Clin. B) Lectr.  
 Clayton, H. R., MB ChB †Lectr.  
 Clarke, Suzanne K. R., MD ChB (Virol.) †Lectr.  
 6 Recog. Teachers

### Child Health

Neale, A. V., MD *Birm.*, DPH, FRCP Prof.  
 Marrian, Valerie J., MB ChB *Edin.* Lectr.

\* (C) = Clinical Teacher

Early, D. F. M., DPH DPM *N U I.*  
Walker, W. L., MB ChB DPH *Aberd.*,  
DPM *Lond.*  
Valentine, M. G., MD *Aberd.*, DPM  
Lancaster, N. P., MD ChB *Manr.*,  
DPM *Lond.*  
2 Tutors, 1 Recog. Teacher

**Neuro-Surgical Unit, see also Surg.**

Alexander, G. L., MD ChB BSc *Edn.*,  
FRCS Surgeon-in-Charge  
1 Recog. Teacher

**Obstetrics and Gynaecology**

Lennon, G. G., MB ChM *Aberd.*, FRCOG Prof.  
Abbas, T. M., MD ChB *Edn.*, FRCS Lectr.  
King, Audrey, MB ChB Lectr.  
Lewton, S. D., MB ChB, FRCS Lectr.  
Shepherd, H. L., ChM MB, FRCOG Lectr.  
Bennett, Maryona, MD *Lond.*, ChM, FRCS,  
FRCOG  
Crossley, J., MA MB BChir *Camb.*, FRCS  
3 Tutors

**Ophthalmology**

Palin, A., MA BM BCh *Oxon.*, FRCSed  
†Lectr., Hd. of Dept.  
Brown, C. A., MA MD *Aberd.*, DOMS,  
FRCS  
Jardine, P., DOMS, FRCSed  
Clifton, F., MA MB BChir *Camb.*, DOMS  
Phillips, C. I., MD DPH *Aberd.*, FRCS  
2 Tutors

**Pathology**

Hewes, T. F., MD, FRCP Prof.  
Hunt, A. C., MD BS *Lond.* (Forensic P) Lectr.  
Sondry, R. J., MD ChB Lectr.  
Lloyd, O. C., MA MD *Camb.* Lectr.  
Halford, M. E. H., MD *Lond.*, MRCP Lectr.  
Sinnerkin, N. G., DCP *Lond.*, MD Lectr.  
Corney, J. S., BSc MD BS DCP *Lond.*  
(Morbid Anat.) Lectr.  
McGowan, G. K., BA BM BCh *Oxon.*  
(Chem P) †Lectr.

Lewis, F. J. W., MB ChB  
(Clin. P & Haematol.) †Lectr.  
Norman, R. M., DPM *Lond.*, MD, MRCP  
(Neuropathol.) †Lectr.  
Raper, A. B., BSc MD *Lond.*, MRCP  
Lucke, Vanda M., BVSc (Vet. P) Asst. Lectr.  
Price, C. H. G., MD Res. Fellow  
Jeffrey, Grace M., BSc *Rdy.*, PhD  
(Biochem.) Res. Fellow  
Mock, E. S., MD *SLand.*  
(Cancer Res.) Res. Fellow  
Feint, Sheila A., MB ChB Demr.  
Bramfoot, A. C., MA BM BCh *Oxon.* Demr.  
Kay, J. M., MB ChB *Birm.* Demr.  
3 Tutors, 2 Recog. Teacher

**Pharmacology and Practical Pharmacy**

Heller, H. S., MD *Camb.*, PhD *Prague*,  
MRCP Prof.

Ginsburg, M., BSc PhD *Edn.* Reader  
Fitzpatrick, R. J., BSc PhD *Lond.*  
(Vet. Pharmacol.) St. Lectr.  
Bentley, P. J., BSc PhD *W Aust.* Lectr.  
Ladner, K. P., BSc PhD Jr. Fellow  
Noddle, Barbara, MA VetMB *Camb.* Res. Asst.  
1 Recog. Teacher in Pract. Pharm.

**Public Health**

Wofinden, R. C., MD BS DPH  
DPA *Lond.* †Prof.  
Duncan, Ethel H. L., MA BSc *Aberd.*  
(Med. Stats.) Lectr.  
Bothwell, P. W., MB ChB DPH *Aberd.* †Lectr.  
Phillips, H. T., MD BS *Lond.* †Lectr.  
Whittle, E. G., BSc *Lond.*, FRIC  
(Chem. of Hyg.) †Lectr.  
Deming, I., BSc, FRIC  
(Chem. of Hyg.) †Lectr.  
Faulkner Hudson, T. G., MD BS *Lond.*  
MRCP (Indust. Hyg.) †Lectr.  
Kelly, G. C., CBE, BSc MD ChB *Aberd.*,  
DPH *Lond.* (Heap Admin.) †Lectr.  
Skote, J. F., MD *Lond.*, DPH †Lectr.  
2 Recog. Teachers

**Radiodiagnosis**

Middlemiss, J. H., MD *Durb.*, FFR  
†Lectr., Hd. of Dept.  
Gaskell, K. H., MA BChir *Camb.*, DMRD †(C)  
Wansbrough, T. B., DMRE *Camb.*, MB  
ChB †(C)  
Airth, G. R., MB BS *Durb.*, DMRD †(C)  
Ross, F. G. M., BA MB BCh *Durb.*,  
DMRD, FFR †(C)  
Gordon, I. R. S., MD *Camb.*, DMRD,  
MRCP †(C)  
Thomson, J. L. G., MD *Lond.*, DMRD,  
MRCP †(C)  
Evans, K. T., MB ChB *Birm.*, DMRD,  
MRCP, FFR †(C)  
5 Tutors

**Radiotherapy**

Tudway, R. C., BSc MB BS DMR *Lond.*,  
FFR †Lectr., Hd. of Dept.  
Curran, S., DMRT †(C)  
3 Tutors, 1 Recog. Teacher

**Surgery, see also Neuro-Surg. Unit**

Milnes Walker, R., MB MS *Lond.*, FRCS Prof.  
Pescuch, J. H., MB ChM *Birm.*, FRCS Lectr.  
John, H. T., DFC, MB BS *Durb.*, FRCS Lectr.  
Byrne-Brook, A. L., MB MS *Lond.*, FRCS  
(Orthop. & Fractures) †Lectr.  
Miller, A., MA MD *Camb.*, FRCS  
(Urol.) †Lectr.  
Capper, W. M., MB BS *Lond.*, FRCS †Lectr.  
Horton, R. E., MBE, MB MS *Lond.*,  
FRCS †Lectr.  
McPherson, A. G., BA MB MChir *Camb.*,  
FRCS †(C)  
Cooke, R. V., MB ChM, FRCS †(C)

\*(C)—Clinical Teacher

FitzGibbon, G. M., MD Lond., FRCS  
(Plastic S.) †(C)\*  
Paul, R. G., FRCS †(C)  
Prude, K. H., MB ChB, FRCS (Orthop.) †(C)  
Pozack, J. A., MA MB BChir Camb.,  
FRCS †(C)  
Belsey, R. H. R., MB MS Lond., FRCS  
(Thoracic S.) †(C)  
Lucas, H. K., MBE, MB MChOrth Lond.,  
FRCSed †(C)  
McCormack, M. P., MB ChB Edin.,  
FRCSed (Orthop.) †(C)  
Mitchell, J. P., MB MS Lond., FRCS (Urol.) †(C)  
Bourne, H. K., BA MB BCh BAO Dub.,  
FRCS †(C)  
7 Tutors, 5 Recog. Teachers

**Veterinal Diseases**

Tinkler, A. E., MA MD BAO Dub. †(C)

**VETERINARY SCIENCE****Animal Husbandry**

Ewert, T. K., BVSc Syd., PhD Camb. Prof.  
McCrin, M. R., BVSc Sr. Lectr.  
Jaffe, W. P., BSc(Agric) Wales, PhD Edin. Lectr.  
Radford, P., BScAgric Nott., PhD Lectr.  
Mansters, M. J., BSc(Agric) Lond.,  
MScAgric Nott. Lectr.  
1 Res. Asst.

**Veterinary Anatomy**

Ottaway, C. W., PhD Camb., FRCVS Prof.  
Smith, R. N., PhD, FRCVS Lectr.  
Marshall, A. W., BSc Lond., PhD  
(also Embryol.) Lectr.  
Ashdown, R. R., BVSc PhD Lectr.  
Butler, W. F., BVSc PhD Lectr.

**Veterinary Medicine**

Grunsell, C. S. G., PhD Edin. Prof.  
Holmes, J. R., MVSc PhD Liv. Sr. Lectr.  
Osborne, A. D., DVSM  
(Vet. Pub. Health) Sr. Lectr.  
Kidder, D. E., BSc PhD Lond.  
(Chem. Pathol.) Lectr.  
Wright, A. J., BVSc Liv. (Clin. Parasitol.) Lectr.  
Penny, R. H. C., BSc Liv. Lectr.  
Nash, T. A. M., CMG, OBE, PhD  
DSc Lond. (Trypanosomiasis) Res. Fellow  
Wilson, M. R., BVSc (Clin. Pathol.) Jr. Fellow  
3 Recog. Teachers

**Veterinary Physiology, see Physiol.****Veterinary Surgery**

Messervy, A. Prof.  
Yeats, J. J. Lectr.  
Weaver, Barbara M. Q. Lectr.  
Pearson, H., BVSc Lectr.  
David, J. S. E., BVSc  
(Dis. of Reproduction) Lectr.

Helliwell, R. E. W., BA VetMB Camb.  
1 Recog. Teacher Jr. Fellow

**INSTITUTE OF EDUCATION**

Morris, B., BSc EdB Glas. Prof., Dir.  
Berry, Hannah M., BSc Lond. Sr. Lectr.  
Lang, J. G., MA St. And. & MG Sp. Lectr.  
Allan, Miss Ray P., BA Lond. Sp. Lectr.  
Knowlson, H., BSc PhD Leeds  
Staff Tutor & Sp. Lectr.  
Beumer, M. A., MA Camb. Lectr.  
Lowman, J. C., MA Camb. Lectr.  
Wallace, J. G., MA EdB Glas. Res. Fellow  
Scott, I. F. G., MA BD St. And.  
Tutor to Overseas Students  
Robert, C. W., MA Camb.  
Tutor to Overseas Students  
Savory, H. J., MSc (Tutor to Overseas Students)  
Kaye, Miss Cecily Y., LLB (Res. Asst.)  
Bradby, E. L., MA Oxon. †Lectr.  
Bradshaw, Nancee E., BA Lond. †Lectr.  
Chalker, J. B. †Lectr.  
Dawson, Alice M., MA Burn. †Lectr.  
Bills, C. †Lectr.  
Graham, Margaret M., MA Oxon. †Lectr.  
Grubb, Violet M., DSc Lond. †Lectr.  
Hall, Miss Valentine N., MA Lond. †Lectr.  
Nelson, Elizabeth B. †Lectr.  
Wharton, J. T., MA Camb. †Lectr.  
Andersen, Dagmar S., BA Lond. †Sp. Lectr.  
Barnard, Elsie J. †Sp. Lectr.  
Bowen, Mabel, BSc Lon. †Sp. Lectr.  
Burridge, Frances R. †Sp. Lectr.  
Challinor, Edith B., MA Oxon. †Sp. Lectr.  
Cranwick, Margaret E., BA Lond. †Sp. Lectr.  
Gregory, F. F., MA Lond. †Sp. Lectr.  
Horstmann, F. C. †Sp. Lectr.  
Melhuish, Dorothy E., BA Lond. †Sp. Lectr.  
Parrott, Winifred V., BA †Sp. Lectr.  
Rossetti, R. M. †Sp. Lectr.  
Santander, R. V., MA BEd Edin. †Sp. Lectr.  
Symons, Dorsten I. †Sp. Lectr.

**TRAINING COURSE FOR HEALTH VISITORS**

8 Recog. Teachers

**EXTRA-MURAL STUDIES**

Salt, W. E., OBE, MA Sheff., BCom Mans. Dir. of Depn.  
Walshaw, F. W., MA Camb. Asst. to Dir.  
Owen, F. S., BSc(Econ) Lond.  
(Services Educn) Asst. to Dir.  
† Extra-Mural Lectrs.: 88 members of univ.  
staff, 229 others.  
Resident Tutors  
Buttol  
Hopkins, P. W., BA; Burton, J. C. G., MA  
Camb.

\* (C) = Clinical Teaching

*Dorset*  
Olett, F. A., MA Camb.; Waring, E., MA MLitt Camb.  
*Gloucestershire*  
Taylor, W. R., BSc(Econ) Lond.; Tucker, H. F. G., MA; Burrows, R. S., BA N Staffs.  
*Somerset*  
Cair, S. H., BSc(Econ) Lond. (Sr. Lectr.); Durham, I. L., MA Oxon.; Sharp, S., MA Leeds

*Wiltshire*  
Ross, H., BA Lond.; Hare, A., MA

Staff Tutors  
Ains, R. F., DeJuryUer Jena (Services Educn.); Cunliffe, G., BSc Manc (Nat Sci); Thomas, J. L., BA Lond (Econ & Indust Studies); Smith, D., MA Oxon. (Services Educn.); Wilde, D. S., BSc Manc (Phys.)

## ADMINISTRATIVE AND OTHER STAFF

OFFICE OF THE REGISTRAR AND SECRETARY.  
Dep. Registrars and Secs.: A. Finer, BA Leeds; E. C. Wright, MA Oxon. Asst. Sec. (Establishments); A. G. W. Moore, BSc. Admin Assts.: W. A. Hubbard, TD, BCom Durh.; Margaret E. Gibbons, BSc Lond.; P. L. Golding, LLB Lond.  
Exams. Offices: A. J. Davis, Publics Officer.  
B. O. Latten

OFFICE OF THE BURSAR. Dep. Bursar, A. G. Jones, Asst. Bursar (Works), C. N. Thompson. Asst. Bursar (Domestic), Dorothy M. Woodcock, MA Oxon. Catering Supervisor, Mary J. E. Mortimer.

OFFICE OF THE FINANCE OFFICER. Dep. Finance Officer: T. B. Smith, FCA. Asst. Finance Officer: J. A. Gunn, BA Lond.

APPOINTMENTS BOARD. Sec.: Elsie M. Briggs, BSc PhD Leeds. Asst. Secs.: Audrey Hedicks, BSc Manc.; D. C. Ward, MA Camb.

WARDENS OF HALLS OF RESIDENCE. J. F. Sloane, TD, BSc Glas (Wills Hall); A. B. Reynolds, BA (Churchill Hall); A. M. Graves, BSc (Barrville); J. Winifred Macleod, MA Glas, BLitt Oxon

(Clifton Hall House); Marjorie Teit, BA PhD Lond (Marior Hall); J. R. Holmes, MVSoc PhD Lew (Langford House).

WARDENS OF FIY AND HALDANE SOCIETIES.  
Daphne Turner (Fiy Soc.), F. Walkes, MA Lev. (Haldane Soc.).

ADVISER TO OVERSEAS STUDENTS. F. T. Bennett, BA Camb.

INSTITUTE OF EDUCATION. Sec.: J. G. Lang, MA St. And. & McG. Asst. Secs.: Miss Ray F. Allam, BA Lond.; Joan I. Beale, BA Lond.

STUDENT HEALTH. Med. Officer-in-Charge: D. G. H. Sylvester, MD Lond. Asst. Med. Officers: M. J. Conway, MB ChB Manc.; I. A. Hawkins, MB BS Lond.

RADIATION PROTECTION OFFICER. H. F. Freundlich, MA Camb.

LIBRARY. Dep. Librarian: J. Lighthorn, MA Leeds. Sub-Librarians: A. E. S. Roberts, MA; J. Farrell, MA Camb. Chief Assts.: M. D. Berry, BA; Inez M. Shipway, BSc Lond. (Chief Asst. in Inst. of Educn. Librery).

## ASSOCIATED INSTITUTIONS

in which specialised teaching is given or facilities for research are afforded—

### Agriculture

LONG Ashton RESEARCH STATION (Dept. of Agric. and Hort.), LONG Ashton, Bristol (tel.: LONG Ashton 2181). Dir. & univ. prof. of AGRIC. AND HORTIC. sci.—H. G. H. Ketton, OBE, BSc Lond., PhD Camb. PLANT PATHOL.—R. W. Marsh, MA Camb., Asst. Dir. & Reader. CHIEF OF INSECTICIDES AND FUNGICIDES—J. T. Marun, DSc PhD Lond., Asst. Dir. & Reader. HORTIC. sci.—T. E. T. Bond, DSc R'dg., PhD Camb., Sr. Lectr. & Tutor. With the standing of re. lectrs. in the univ.: HORTIC.—A. Pollard, MSc Lond., PhD Manc.; POMOL.—L. C. Luckwill, BSc PhD, Oxo. CHIM.—D. Woodcock, DSc PhD Durh. With the standing of lectrs. in the univ.: PROCESSES.—G. C. Whitton, BSc PhD Sheff.; H. E. Davenport, BSc Lond., PhD Camb.; CHEM.—C. Boulton, MSc PhD R'dg., L. F. Burroughs, BSc

R'dg., PhD; C. F. Timberlake, MSc Water, PhD; D. G. Hill-Cottingham, MSc Lond., PhD; H. R. Mappother, BA BSc Durh.; E. J. Sherrett, PhD; ENTOMOL.—A. Stringer, BSc Lond.; N. G. Morgan, BSc PhD, FRUIT PRODUCTS—Margaret E. Kesser, BSc, MICROBIOL.—P. W. Beech, BSc Birm., PhD; J. G. Carr, BSc PhD; MYCOL.—R. J. W. Byrde, BSc(Hort) PhD R'dg.; A. T. K. Corrie, BSc PhD Edin., COO. CHEM.—A. H. Williams, MA BSc Oxon.; PHYS. CHEM.—W. D. E. Thomas, BSc PhD Water; E. Somers, MSc Lond., PhD; C. P. Lloyd-Jones, BSc; PLANT PHYSIO.—E. J. Hewitt, BSc Lond., PhD; D. J. D. Nicholas, DSc Lond., PhD; POMOL.—E. W. Hobbs, MSc, BSc, D. L. Abbott, BSc Lond.; R. R. Williams, BSc; STATE—G. M. Clarke, MA Oxon.; SOIL SCI.—R. A. Webb, BA DPhil Oxon.; WILLOWS—K. Q. Stott, BSc Water. 4 Res. Assts.; 1 Recog. Teacher.

## Domestic Science

GLoucestershire TRAINING COLLEGE, Barrack Square, Gloucester (tel. Gloucester 20234) For practical course for BSc(DomSci). Principal & univ. lect. in dom. sci.—NANCIE E. BRADSHAW, BA Lond. With the standing of teachers in the univ.: MOLLY DOWNES, Inaugur B. Pick, Mabel Challinor; B. Vivienne Godfrey; Marguerite N. Paycott; Eileen McQueen, BSc Dab (univ. tutor to dom. sci. students)

## Theology

The following are members of the univ. staff for the BA in theol. subjects:

BAPTIST COLLEGE, Woodland Rd., Bristol, 8 (tel. Bristol 20248) Principal, Rev. L. G. Champion, BD Lond., DTh Hendl., BA, Rev. N. S. Moon, BD MTh Lond., BA; Rev. H. Mowley, MA Oxon., BA.

CLIFTON THEOLOGICAL COLLEGE, Stoke House,

Bristol, 9 (tel. Bristol 682803). (C. of E.) Rev. J. A. Motyer, MA BD Lond.; Rev. M. R. W. Packer, BA Oxon., F G C. Langford, MA Oxon.

DIEBURY COLLEGE, Henbury Hill, Bristol (tel. Bristol 628900) (Methodist). Principal, Rev. F. Greaves, MA Camb., BA Manc., Rev. K. Grayston, MA Oxon. & Camb., Rev. I. E. Davies, MA Oxon., BA BD Camb., Rev. I. H. Marshall, MA BD Aberd., BA Camb.; Rev. D. W. Stacey, MA Birn.

TYNDALL HALL THEOLOGICAL COLLEGE, Clifton, Bristol (tel. Bristol 33325). (C. of E.) Principal, Rev. J. Stafford Wright, MA Camb., Rev. D. H. Tongue, MA Camb., Rev. J. W. Wenham, MA Camb., BD Lond.; Rev. C. Brown, BA Lic., MA Not., BD Lond.

WESTERN COLLEGE, Cotham, Bristol, 6 (tel. Bristol 35042). (Congregational) Principal, Rev. B. H. Sims, MA Blett Oxon.; Rev. W. J. Downes, MA BD Lond.

## GENERAL INFORMATION

Univ. Coll., Bristol, was establd. in 1876 and in 1893 the Bristol Med. School, which dates from 1833, became incorporated in it. The univ. received its charter in 1909.

Bristol is situated on the borders of Gloucestershire and Somerset, with a population of about 440,000.

**CONSTITUTION.** The court, comprising some 450 reps. of local authorities and organizations, learned institutions, benefactors, staff and grads, meets annually to receive a report from council, pass accounts and a balance sheet, appoint univ. officers and amend ordinances. Executive control rests during the yr. with council, whose 46 members are nominated by court, the local authorities of the region, the Soc. of Merchant Venturers, senate, the non-professional teaching staff and convocation. Senate, numbering over 60 and consisting of the *profes.* and a no. of other members of the teaching staff, controls, under council, the academic affairs of the univ. and receives reports from the fac. boards. There are 5 facs. (see below) each having at its head a dean, who holds office for 2 or 3 yrs. The principal academic officer of the univ. is the vice-chancellor, whose appt. is permanent. The grads. of the univ. form convocation, which meets annually and may discuss and pronounce an opinion on any matter relating to the univ.

**INCOME (1960-61).** Total income, £1,975,631 (Treasury grants, 70 per cent.; other grants and contributions for services rendered, 15 per cent.; fees, 11 per cent.; grants from local authorities, 2 per cent.; other sources, a per cent.).

**FACULTIES AND DEANS.** *Arts*, Prof. W. McC. Stewart (French); *engin.*, Prof. W. M. Shepherd (theoret. mech.); *law*, Prof. J. A. Courts

(jurisp.), and, Prof. J. M. Yoffey (anat.); *sci.*, Prof. F. C. Frank (phys.)

**UNIVERSITY PRECINCT.** The facs. of arts and law are chiefly housed in the main bldg., which was opened in 1925; it includes the library and admin. offices and its tower occupies a commanding site close to, but well above, the centre of the city. In the same area are most of the scientific depts., incl. the H. H. Wills phys. lab. (opened in 1927 and now extended) and Queen's Bldg. (opened in 1958 and housing the depts. of maths., geol., civil engin., mech. engin., elect. engin., aeronaut. engin. and theoret. mechs.), and the sites for new med. sch. and new chem. sch. Canynge Hall, within easy reach, accommodates the depts. of pathol., pub. health and bacteriol. The vet. field station, opened in 1952, is at Langford, Somerset.

**LIBRARY** 263,525 vols. other than pamphlets (including arts, 145,615; sci., 58,000; med., 42,800; engin., 12,600; law, 4400) Sp. collections: British local hist. and records; early Engl. novels; Engl. philos. writers; courtesy books; hist. of educn.; early Engl. dictionaries; cartography; landscape gardening; Maria Mercer phys. lib.; Exley math. lib.; Worsley chem. lib. (including early works on chem. and alchemy); Wilesworth ornithol. collection; early med. books and works on mineral waters and spas.

**LABORATORIES, ETC.** *Anat.*, bacteriol., bot., org. chem., phys. & inorg. chem., engin. (civil, mech., elect. & aeron.), geol., pathol., pharmacol., phys., physiol. vet. anat., vet. physiol., vet. surg., zool., geol. museum. Long Ashton res. stn. (agric.), see p. 937. Hort. sci. lab. Univ. bot. garden at Bracken Hill.

**TEACHING HOSPITALS.** Clin. study is undertaken in the United Bristol Hosps. (comprising the Bristol Royal H., Univ. of Bristol Dental H., Bristol Royal H. for Sick Children, Bristol Eye H. and Bristol Maternity H.) and partly in the following hosps. under the control of the S.-W. Regional Hosp. Bd.: Southmead H., Harn Green H., Bristol Mental Hosps., Stoke Park Colony and Winsley Sanatorium.

**INSTITUTE OF EDUCATION** (see also p. 936). Founded in 1947 to supervise the trg. of teachers and generally to foster work in the field of educn. in the region. *Associated institutions:* univ. dept. of educn.; Coll. of S. Matthias, Fishponds, Bristol; W. of England Coll. of Art, Bristol; City of Bath Trg. Coll., Domestic Sci. Trg. Coll., Bath; City of Bath Academy of Art; St. Paul's Trg. Coll., Cheltenham; St. Mary's Trg. Coll., Cheltenham, Gloucestershire Trg. Coll., Gloucester, Diocesan Trg. Coll., Salisbury, Redland Trg. Coll., Bristol.

**A SCHOOL OF MANAGEMENT STUDIES** was established in Aug. 1962 to provide residential courses in management studies and to conduct res. into problems of bus. management and admin. First admissions to sch. took place in Sept. 1962. For staff, see p. 930.

**ADMISSION.** See Appendix III.

**FIRST DEGREE.** BA, BSc, BSc in engin., LLB—3 yrs, incl. at least 2 in the univ.; MB ChB—5 yrs. after passing 1st exam in phys., chem. and biol., incl. at least 3 in the univ.; BDS—4½ yrs. after passing 1st exam. in phys., chem. and biol., incl. at least 3 in the univ.; BVSc—4 yrs. after passing 1st exam. in phys., chem. and biol., incl. at least 3 in the univ.

All degrees, except BSc (DomSc) (3 yrs.), may be awarded with hon.

**Courses for BA:** general (3 subjs. for 3 yrs., 4th subj. for 1st yr.) or special (Greek, Greek & Engl., Latin, Latin & French, Latin & Spanish, classics, classics & drama, French, French & drama, French & German, French & Spanish, German, German & drama, Spanish, Spanish & drama, Engl. & drama, Engl. hist. & econ., geog., econ., econ. & acctg., econ. & pol., philos., philos. & psychol., philos. & Engl. lit., philos. & French, philos. & econ., philos. & pol., philos. & classics, maths., theol., music). Courses for BA general in mind studies include econ., pol. and a med. lang.

**Courses for BSc:** general (1 subj. for 3 yrs. with 2 subjs. for 2 yrs., or with one subj. for 2 yrs. and one for 1 yr., and with course on devel. of sci.) or special (maths., phys., chem., biological chem., geol., geog., bot., zool., anat., physiol., psychol., microbiol.). Candidates are no longer admitted to ordinary BSc curriculum but students may be transferred to it.

**HIGHER DEGREE.** All (except BMus and DMus) open to grads. of other univs. who have been engaged in res. in the univ. for a prescribed period. BMus, 1 yr. from BA general or spec.

music, MA—2 yrs. from BA, 3 yrs. for non-grad. if ap. permission given; MSc (in sci. or engin.)—2 yrs. from BSc, 1 yr. for hon. grad. of Bristol; ChM—2 yrs. from MB ChB; MDS—2 yrs. from BDS, LL.M.—2 yrs. from LL.B. PhD (all incs. except law)—2 yrs. from 1st degree (all facs.), open in exceptional cases to non-grads. in facs. of sci., med. and engin. DMus—3 yrs. from BMus; DLit, DSc (in sci. or engin.), LL.D.—6 yrs. from 1st degree incl. 3 yrs. res. in univ. in case of those not Bristol grads.; MD—2 yrs. from MB ChB.

The degrees of master and doctor may be awarded as HONORARY DEGREES.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMA.** Educn. (for qualified teachers), 1 yr., pub. health, 1 yr.; soc. studies, 1 yr. postgrad., LDS, 4 yrs.

**CERTIFICATE.** Educn., 1 yr. postgrad.; course of advanced trg. for residential staff of children's homes and schs. for deprived, delinquent and handicapped children, 1 yr.; appl. soc. studies, 1 yr.; testamur in bacteriol. & microbiol., 1 yr. postgrad. Drama, 1 yr. postgrad.

**POSTGRADUATE COURSE** (not leading to any formal qualif.) in medical physics, 1 yr., open to grads. in phys. Fee: £57.

**ENGLISH FOR FOREIGN STUDENTS.** Foreign students whose native lang. is not Engl. and who can satisfy the univ. that their knowledge of Engl. is sufficient may be admitted to pt.-time courses in Engl. (including a 2-hr. weekly course consisting of Engl. phonetics and informal classes in the reading and speaking of Engl.) and in a limited no. of other subjects in facs. of arts and sci. No dipl. is awarded, but a cert. of attendance is given. Fees: £10 a session or £4 a term.

**RESEARCH.** Facilities for res. in all depts. The Colston Res. Soc. devotes the proceeds of an annual collection to a symposium and to the promotion of res. in the univ.

**Fees.** *Inclusive annual fees* (covering tuition, exam., graduation and membership of students' union): BA, BMus, dipl. in soc. studies, £67; cert. in appl. soc. studies, £67; dipl. in educn., £67; BSc, BSc (DomSc), £82; BSc in maths., £67; MB ChB, BDS, LDS, BVSc, £82; BSc in engin., £82; LL.B., £67. *Postgrad. fees:* MA, LL.M., £67; MSc, £82; ChM, MDS, £30; PhD in arts or maths., £67; in other facs., £82; DMus, DLit, DSc, MD, LL.D., £30; cert. in educn., £67; testamur in bacteriol. & microbiol., £30; res. in sci. not for a degree, £72; DPhil, £82.

**ACADEMIC YEAR.** Oct. to July; 3 terms of 10 or 10½ wks. each.

**EXTRA-MURAL STUDIES** (see also "Teaching Staff", above). Organized through univ. dept. of extra-mural studies. Schemes of co-operation with WEA, all educn. authorities in univ. region and Community Council of Gloucestershire. Jt. scheme for Dorset in collab. with Univ. of



Southampton; associated with Wilts. in Urchfont Manor Residential Coll. for adults (tutor seconded to coll. staff). Resident tutors organize univ. activities in each county. 3 resident tutors responsible for work in Bristol. 2 staff tutors with responsibility for promotion of studies in bool. and the phys. scis. 2 staff tutors for services abroad.

**VACATION COURSES.** Summer sch., arranged annually by dept. of extra-mural studies in conjunction with W.E.A., is held in Wills Hall for a week and normally attracts about 100 students, incl. a no. from abroad. Subs. include art, econ., biol., psychol. and pol. Residential courses are also arranged in sp. subs., e.g. archaeological field survey, and for the services.

**'OPEN' ENTRANCE AWARDS.** Each candidate accepted for admission is regarded as a candidate for one of 9 open entrance scholps.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910.

**APPOINTMENTS BOARD,** 21 Berkeley Sq., Bristol, 8 (tel. Bristol 24151). For sec. see 'Admin. and Other Staff', above. The bd. provides information and advice to undergrads, and grads. and offers assistance in finding suitable employment.

**FOR FORMER STUDENTS** there is an assoc. of alumni. Sec.—E. G. Beynon, BSc, 31 Bromley Drive, Downend, Bristol.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above). For women (fees: £126 p.a.): Clifton Hill House, Clifton Hill, Bristol, 8 (tel. Bristol 36274), 139 students; Manor Hall, Clifton, Bristol, 8 (tel. Bristol 36604), 202 students. For men (fees: £175 p.a.): Wills Hall, Stoke Bishop, Bristol, 9 (tel. Bristol 68-1544), 186 students; Bulwalle, Leigh Woods, Bristol, 8 (tel. Bristol 36689), 70 students; Churchill Hall, Stoke Bishop, Bristol, 9 (tel. Bristol 68-4219), 317 students. Accom. officers provide addresses of approved lodgings. Common rooms provided for Haldens and Fry Soc., for men and women not living in Halls.

**UNIVERSITY NAVAL CONTINGENT.** C.O.: Capt. G. L. Hunt. Embodied in Severn Div. R.N.V.R. with H.Q. aboard H.M.S. *Flying Fox*. Sea trg. carried out in ships of Royal Navy in long vac. and in coastal mine-sweeper attached as tender to H.M.S. *Flying Fox* during session.

**OFFICERS TRAINING CORPS.** O.C.: Col A. M. Graves. Infantry, Royal Signals, and Women's

Royal Army Corps sub-units. Basic trg. for cert. 'B' is followed by specialist trg. in signal unit or infantry unit.

**UNIVERSITY AIR SQUADRON.** O.C.: Squadron Leader J. D. Evans. Flying trg. provided for students preparing for commissioned service in R.A.F. During term, flying trg. given at R.A.F. station, Filton, and continuous trg. takes place during a wk. of the long vac.

**STUDENTS' HEALTH SERVICE.** Students admitted to the univ. are required to have an annual chest X-ray exam. and to undergo a med. exam. in at least the 1st yr. of their course. The exams are conducted by med. officers appointed by the univ. and are free of cost to students. The med. officers are also available for free consultation by students. The univ. has provided Woodland House, West Park, Bristol, 8 (tel.: Bristol 37716), near the union and main univ. bldgs., for use as a health centre, with facilities for physical trg., squash and fives.

**THE UNIVERSITY UNION** is the student body of the univ. It has facilities for its various clubs and activities at the Victoria Rooms, Bristol, 8 (tel.: Bristol 34383; permanent sec., 34460).

**STUDENT ATHLETIC FACILITIES.** 38½ acres of playing fields at Coombe Dingle, Bristol, 9. Tennis and squash courts at several halls of residence. 2 gymnasia in union. Rowing at Saltford, 7 miles from Bristol. Clubs include: archery, assoc. football, badminton, basket ball, boxing, cricket, cross country running, fencing, fives, golf, hockey, judo, lacrosse, netball, rifle, rugby football, sailing, ski, squash, swimming, table tennis, tennis. 2 lectrs. in phys. educn. (see p. 932) organize games and athletics.

**PUBLICATIONS.** *Calendar* (Oct.), 10s. 6d. post free; *General Prospectus* incl. signs. for matric.; *sec. Prospectus*, annual *Report* of council to court; prospectuses of halls of residence, depts. of drama, educn., music; *Fellowships, Scholarships and Prizes*; *Gazette* (Oct., Jan. & April, 3 issues, 3s. 6d. post free); students' mag., *Nonsuch*, 1s. 6d.; *The Life of a University* by Basil Cottle & J. W. Sherborne (Arrowsmith, 1959), 12s. 6d. net, 13s. 2d. post free; *The Jubilee Reminiscences* (an account of res. work conducted in the univ., 1934-59), 8s. 6d. net, 9s. 2d. post free.

**PUBLICATIONS COMMITTEE.** Establd. in 1953 under standing orders of council to arrange for publication of works under auspices of the univ.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Grants totalling £48,000 for yr. from D.S.I.R. and £13,300 from British Empire Center Campaign.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: extensions to univ. library and to Clifton Hill House.

NEW DEPARTMENTS AND CHAIRS Chair of clinical bacteriology

RETIREMENTS. Emily E. Butcher (hist.); Jessica Byett (dom. sci.); Dr. S. K. Rugg (dental surg.).

RESIGNATIONS J. R. Barker (sub-librarian); Dr. W. J. Bates (phys.); Dr. J. W. Buch (geog.); Dr. D. Bohm (phys.); Dr. M. J. Casella (bot.); Dr. H. S. M. Cahill (dental surg.); E. M. Edwards (obstet.); Dr. C. S. Jha (electr. engin.); Dr. A. S. King (vet. anat.); H. C. H. Mackenzie (econ. stats.); L. N. Payne (vet. med.); Anna van Zwanenberg (law)

DEATHS Emer. Prof. A. M. Tyndall (prof. of phys., 1919-48); Emer. Prof. P. Boillot (prof. of French, 1919-43); Emer. Prof. M. Travers (prof. of chem., 1927-37); Dr. J. Malkin (reader in org. chem.); Dr. J. W. E. Snowden (lect. in dent. anat.); Dr. Millicent Taylor (formerly lect. in chem.); Dr. W. Folkowski (sp. lect. in French)

HONORARY DEGREES LL.D.—Prof. W. A. Lewis DLitt.—Sir Anthony Blunt DSc.—C. Waller MD.—Prof. W. C. W. Nixon, Sir Arthur Porritt; Prof. L. J. Witts. DSc in eyes—Dr. S. G. Hooker

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2359	135
Women	1135	30
Total	3494	165

Distribution by Faculties. Agric. & hort., 2; arts, 1414; dent., 137; engin., 365; law, 149; med., 332; sci., 971; vet. sci., 124. Total: 3494.

Included in the figures above are —

Postgraduate students, 537.

New admissions, 1216 (incl. 998 undergrad.).

Students from other countries, 285. (Countries from which largest numbers came: Nigeria, 34; U.S.A., 20; Kenya, 16).

DEGREES AWARDED (1960-61). Arts BA, 250; BA(Econ), 7; BMed, 1; MA, 5; MA in educn., 2; PhD, 2. Dent BDS, 16. Engin BSc, 112; PhD, 7. Law LLB, 33. Med MB ChB, 45; PhD, 1; MD, 5. Sci BSc, 257; MSc, 12; PhD, 37. DSc, 3. Vet. sci. BVSc, 21; PhD, 1. Total number of first degrees awarded, 782.

DIPLOMAS AWARDED (1960-61). Educn., 6; soc. studies, 10; LDS, 5; DPH, 13.

CERTIFICATES AWARDED (1960-61). Appl. soc. studies, 13; educn., 172; med. phys., 4.

# UNIVERSITY OF CAMBRIDGE\*

Founded in the 13th century

Postal Address: Cambridge, England

Telephone (Registry): Cambridge 58933 (For telephone numbers of university departments, see p. 978)

- CHANCELLOR—Marshal of the Royal Air Force the Rt. Hon. the LORD TREDDER, GCB, Hon. LLD, Hon. Fellow of Magdalen College
- VICE-CHANCELLOR—Sir W. IVON JENNINGS, KBE, QC, LLD *Lord*, Hon. LLD *Brist.*, *Ston.*, *Ceyl.*, *Leeds*, *Belf.* & *H.K.*, Hon. DUP<sub>Arch.</sub>, LittD, FBA, Master of Trinity Hall
- HIGH STeward—The Rt. Hon. R. A. BUTLER, [Pemb.], CH, Hon. DCL *Oxon.*, Hon. LLD *Nott.*, *Brist.*, *Sheff.*, *St. And.* & *Comb.*, MA
- DEPUTY HIGH STeward—The Rt. Hon. the LORD MORTON OF HENRYTON, [Joh.], MC, Hon. LLD *Glas.*, *St. And.* & *Comb.*, MA
- COMMISSARY—The Rt. Hon. the LORD McNAIR, [Cam.], CBE, Hon. LLD *Glas.*, *Liv.*, *Birm.* & *Salom.*, Hon. DCL *Oxon.*, Hon. DLitt *Edy.*, LLD, FBA
- ORATOR—L. P. WILKINSON, [King's], MA, FRSL
- REGISTRAR—R. M. RATLENBURY, [Trin.], MA
- SECRETARY GENERAL OF THE FACULTIES—W. J. SAINTAIN, [Selw.], Hon. LLD *Pacific*, MA
- LIBRARIAN—H. R. CROSWICK, [Jes.], MA *Oxon.* & *Comb.*
- TREASURER—R. E. MACPHERSON, [King's], MA
- DIRECTOR OF THE FITZWILLIAM MUSEUM AND MARLEY CURATOR—C. WINTER, [Trin.], MA

## TEACHING STAFF

The abbreviation in square brackets denotes the college of which the teacher is a present member. The names of those teachers who are also heads or fellows of colleges are repeated in the college entries on pp. 957-971. The names of colleges are indicated by abbreviations as follows

Cal.	Gonville and Caius College	Fitzw.	Fitzwilliam House	Pemb.	Pembroke College
Cath.	St. Catharine's College	Girton	Girton College	Pet.	Peterhouse
Chr.	Christ's College	Jes.	Jesuit College	Qu.	Queens' College
Chur.	Churchill College	Joh.	St. John's College	Selw.	Selwyn College
Cla.	Clare College	King's	King's College	Sid.	Sidney Sussex College
Coep.	Cooper's College	Magd.	Magdalene College	Tr. H.	Trinity Hall
Down.	Downing College	New H.	New Hall	Trin.	Trinity College
Emm.	Emmanuel College	Newn.	Newnham College		

<b>Aerial Photography</b>		Ford, E. H. R., [Selw.], MD	Lectr.
St. Joseph, J. K. S., [Selw.], MA PhD,		Green, H. L. H. H., [Sid.], MD	Lectr.
FSA	Dir.	Horn, G., [King's], BSc MB ChB <i>Burm.</i> , MA	Lectr.
<b>Aeronautics, see Engineering</b>		Hughes, A. F. W., ScD	Lectr.
<b>Agriculture, see below</b>		Monro, P. A. G., [Joh.], MD	Lectr.
<b>Altaic Languages, see Oriental Studies</b>		Pratt, C. W. McE., [Tr. H.], MB ChB <i>Manc.</i> , MA	Lectr.
<b>Anatomy</b>		Shute, C. C. D., [Chr.], MD	Lectr.
Boyd, J. D., [Cla.], MD BSc, MA, FLS	Prof.	Sims, R. T., [Joh.], BSc MB BS <i>Leeds</i> , MA	Lectr.
Millen, J. W., [Joh.], MD DSc <i>Belf.</i> , MA	Reader	Towers, B., [Jes.], MB ChB <i>Liv.</i> , MA	Lectr.
Bull, M. M., [Qu.], MD	Lectr.	Woolham, D. H. M., [Emm.], MD	Lectr.
		Wright, G. H., [Cla.], MD	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Lewis, P. R., [Corp ], DPhil Oxon., MA  
Oxon. & Camb. Asst. Dir. of Res  
Messing, M. A., [Cath ], MA MB BChs Demr  
Pezard, J. A. F., [Cis ], MA Tech Officer

### Anglo-Saxon, etc.

Whitelock, Dorothy, [Newn ] MA Oxon.,  
LitD, FBA, FSA, FRHistS  
Birmingham & Bosworth Prof.  
Bromwich, Mrs Rachel S., [Newn.], MA Lectr.  
Clemoes, P. A. M., [Emm ], BA Lond.,  
PhD Lectr.  
Hunter Blair, P., [Emm ], MA Lectr.  
Hughes, Kathleen W., [Newn ], PhD Lond.,  
MA Lond. & Camb.  
(Early Hist. & Culture of British Isles) Lectr.  
Page, R. I., [Coup ], MA Skeff., PhD Nott  
Lectr.

### Animal Health, Animal Pathology, Animal Surgery, see Veterinary Studies

### Anthropology

Fortes, M., [King's], PhD Lond., MA Oxon. &  
Camb. (Soc. A.) William Wyse Prof.  
Leach, E. R., [King's], MA (Soc. A.) Reader  
Richards, Audrey I., [Newn ], CBE,  
PhD Lond., MA Lond. & Camb.  
Smuts Reader  
Fortune, R. F., [Emm ], MSc N.Z., MA Lectr.  
Goody, J. R., [Job ], MA PhD Lectr.  
Jones, G. L., [Jes ], MA Oxon. & Camb. Lectr.  
Trevor, J. C., [Emm.], BSc Oxon., MA PhD  
Lectr.  
Hughes, D. R., [Fitzw.], MA (Phys. A.) Demr  
(Soc. A.) Asst. Lectr.

### Arabic, see Oriental Studies

### Aramaic, see Oriental Studies

### Archaeology, see also Classical Archaeol., Classics, Oriental Studies

Clark, J. G. D., [Pet.], ScD, FBA Disney Prof.  
Demr.  
Dunst, G. E., [Job ], LitD Lectr.  
McBurney, C. B. M., [Corp ], MA PhD,  
FSA Lectr.  
Coles, J. M., [Fitzw.], PhD Edu., MA  
Asst. Lectr.  
Hope-Taylor, B. K., [Job ], PhD Asst. Lectr.  
Higgs, E. S., [Magd.], BComm Lond.,  
MA Asst. in Res.

### Architecture

Martin, Su J. Leslie, [Jes ], PhD Manc.,  
MA Manc. & Camb., FRIBA Prof.  
Bucknell, P., [Jes ], MA, FRIBA Lectr.  
Dyson, W. F., [Trin.], MA Lectr.  
Liddle, M. E., [Tr. H.], BA Manc., MA  
Lectr.  
Roberts, D. W., [Magd.], MA Lectr.  
Wilson, C. A. Sc J., [Chur.], MA Lectr.

Eisenman, P. D., [Trin.], BArch Camb.,  
MScArch Camb. Asst. Lectr.  
Martin, B., [Sed ], MA Asst. Lectr.

### Art, see also Oriental Studies

Gombosi, E. H. J., [Jes ], MA Oxon.,  
PhD Farns, FBA Slide Prof. of Fine Art  
Jaffé, A. M., [King's], MA (Hist. of A.) Lectr.

### Assyriology, see Oriental Studies

### Astrophysics

Redman, R. O., [Job ], MA PhD, FRS  
Prof. Dir. of Observatories  
Linfot, E. H., [Job ], DSc Oxon., ScD  
Asst. Dir. of Observatories, John Couch  
Adams Astronomical  
von Küber, H., [Job ], DPhil Berl., MA  
Asst. Dir., Solar Phys. Observatory

### Senior Assistant Observers

Argue, A. N., [Cai ], BA Dub., MA  
Beer, A., [Cai ], DPhil Berl., MA  
Dewhurst, D. W., [Chur.], MA PhD  
Willstrop, R. V., [Emm ], MA PhD

### Junior Assistant Observer

Griffin, R. F., [Job ], BA PhD  
Technical Officer  
Bagge, D. W., [Trin.], MA

### Biochemistry

Young, F. G., [Tr. H.], PhD DSc Lond.,  
Hon. DUMontpellier, MA, FRS, FRIC  
Sir W. Dunn Prof.  
Gale, E. F., [Job ], ScD, FRS  
(Chem. Microbiol.) Prof.  
Bailey, K., [Trin.], ScD, FRS Reader  
Needham, N. J. T. M., [Cai ], ScD, FRS  
Sir W. Dunn Reader  
Dixon, M., [King's], ScD, FRS

(Enzyme B.) Reader  
Dixon, H. B. F., [King's], MA PhD Lectr.  
Kornet, A., [Cai ], MA PhD Lectr.  
McQuillen, K., [Chur.], MA PhD Lectr.  
Northcote, D. H., [Job ], PhD Lond., MA Lectr.  
Randle, P. J., [Tr. H.], MA PhD MB BChir  
Lectr.  
Kerridge, D., [Cai ], MA PhD Asst. Dir. of Res  
Hendall, D. S., [King's], MA PhD Demr.  
Chappell, J. B., [Cai ], BA PhD Demr.  
Newton, Mrs. Alison A., [Newn ], MA  
PhD Demr.  
Thorne, C. J. R., [Trin.], BA PhD Demr.  
Tubbs, P. K., [Corp.], MA PhD Demr.  
Whitby, L. G., [Pet.], MD

Univ. Biochemist to Addenbrooke's Hosp.  
Georgie, R. J., BSc Brit.  
Univ. Asst. Biochemist to Adden-  
brooke's Hosp.  
Davison, S. H. H., BSc Lond., MA Tech. Officer

**Biology**

Wigglesworth, V. B., [Cae.], CBE, MD, FRS  
Quick Prof.

**Biophysics, see Physiol****Botany, see also Agriculture, below**

Godwin, H., [Cla.], ScD, FRS, FGS Prof.

Barker, J., [Trin.], MA PhD, FRS

(Plant Physiol.) Reader

Coaker, E. J. H., [Sid.], MA, FRS

(Plant Taxon.) Reader

Garrett, S. D., [Magd.], ScD (Mycol.) Reader

Gilmour, J. S. L., [Cla.], MA, FLS

Dir. of Botanic Garden

Canny, M. J. P., [Joh.], MA PhD Lectr.

Coombe, D. E., [Chr.], MA PhD Lectr.

Evans, G. C., [Joh.], MA PhD Lectr.

Hudson, H. J., [Down.], PhD *Sheff.*, MA Lectr.

Pigott, C. D., [Emm.], MA PhD Lectr.

Rushforth, J., [Chr.], ScD Lectr.

Spence, K. R., [Down.], MA PhD Lectr.

Walters, S. M., [Joh.], MA PhD

Lectr., Curator of Herbarium

West, R. G., [Cla.], MA PhD Lectr.

Whitehouse, H. L. K., [Qu.], MA PhD Lectr.

Briggs, D., BSc *Durh.* Demr.

Grubb, P. J., [Magd.], MA PhD Demr.

MacRobbie, Enid A. C., [Guton.],

PhD *Edin.*, MA Demr.

George, E. A., [Down.], MA

Curator of Culture Collection of Algae

& Protozoa

Yeo, P. F., [Qu.], MA (Taxon.) Sr. Asst. in Res.

Churchill, D. M., [Cla.], BSc *W. Aust.*, MA

Sr. Asst. in Quaternary Res.

Willis, E. H., [Cla.], MA PhD

Sr. Asst. in Quaternary Res.

Younger, R. W., [Pet.], MA

Tech. Officer in Botanic Garden

Dickson, J. H., [Cla.], BSc *Glas.*

Asst. in Quaternary Res.

**Chemical Engineering, see Engineering****Chemistry, see also Biochem.; Chem.,**

Physical; and Chem., Theoret.

Todd, the Rt. Hon. the Lord, [Chr.], DSc

*Glas.*, Hon. LLD *Glas.* & *Edin.*, Hon.

*DeRerNat Kiel*, Hon. DSc *Lond.*, *Exe.*,

*Linc.* & *Wales*, Hon. DMet *Sheff.*, DPhil *Oxon.*, DrPhil *Prav.*, MA, FRS,

FRIC (Org. C) Prof., Hd of Dept

Emelius, H. J., [Sid.], CBE, DSc *Lond.*, MA, FRS

(Inorg. C) Prof.

Maddock, A. G., [Cath.], PhD *Lond.*, ScD

(Radiochem.) Reader

Mann, F. G., [Trin.], DSc *Lond.*, ScD, FRS,

FRIC (Org. C) Reader

Brown, D. M., [King's], BSc *Glas.*, PhD

Lectr.

Clark, V. M., [Cui.], MA PhD Lectr.

Hatley-Mason, J., [Corp.], ScD Lectr.

Katritzky, A. R., [Chr.], BSc MA

DPhil *Oxon.*, PhD Lectr.

Kipping, F. B., [Joh.], MA PhD Lectr.

Mastland, P., [Jes.], BSc *Glas.*, PhD Lectr.

Saunders, B. C., [Magd.], ScD Lectr.

Sharpe, A. G., [Jes.], MA PhD Lectr.

Sykes, P., [Chr.], BSc *Man.*, PhD Lectr.

Waddington, T. C., [Cui.], MA PhD Lectr.

Sheppard, N., [Tun.], MA PhD

(Spectroscopy) Asst. Dir. of Res.

Blackburn, G. M., [Joh.], PhD *Nott.*, MA Demr.

Cameron, D. W., [Chr.], MSc *Q'ld.*,

PhD *Man.*, MA Demr.

Ehworth, E. A. V., [Chr.], MA PhD Demr.

Given, M. L. H., [Corp.], BSc PhD *Lond.*,

MA Demr.

Prince, R. H., [Joh.], PhD *Lond.*, MA Demr.

Reese, C. B., [Cla.], MA PhD Demr.

Bason, R. H., [Joh.], MA Tech. Officer

**Chemistry, Physical**

Norrish, R. G. W., [Emm.], ScD, FRS, FRIC

Prof.

Sugden, T. M., [Qu.], MA PhD Reader

Agar, J. N., [Sid.], MA PhD Lectr.

Ashmore, P. G., [Chr.], MA PhD Lectr.

Mochwyn-Hughes, E. A., [Corp.], ScD Lectr.

Purnell, J. H., [Tr. H.], PhD *Wales & Camb.*,

MA Lectr.

Thrush, B. A., [Emm.], MA PhD

Asst. Dir. of Res.

Callar, A. B., [Chr.], PhD *Birm.* &

*Camb.*, MA Demr.

Jenkins, D. R., [Chr.], MA PhD Demr.

Padley, F. J., [Jes.], BSc *Lond.*, PhD Demr.

Guttridge, J., BSc *Ston.* Tech. Officer

Husain, D., [Pemb.], BSc *Man.* Asst. in Res.

**Chemistry, Theoretical**

Longuet-Higgins, H. C., [Corp.], DPhil *Oxon.*,

MA, FRS J. H. Plummer Prof.

Boys, S. F., [Trin.], BSc *Lond.*, PhD Lectr.

Orgel, L. E., [Pet.], DPhil *Oxon.*, MA,

FRS Asst. Dir. of Res.

Carlington, A., [Down.], BSc PhD *Ston.*,

MA Asst. in Res.

**Chinese, see Oriental Studies****Classical Archaeology**

Cook, R. M., [Cla.], MA Laurence Prof.

**Classics, see also Hist**

Page, D. L., [Jes.], MA *Oxon.* & *Camb.*,

LittD, FBA (Greek) Ragius Prof.

Brink, C. O., [Cui.], DrPhil *Berl.*

MA *Oxon.* & *Camb.* (Latin) Kennedy Prof.

Griffith, G. T., [Cui.], MA, FBA

(Anc. Hist.) Laurence Reader

Kirk, G. S., [Tr. H.], DSC, MA, FBA

(Greek) Reader

Barnbrough, J. R., [Joh.], MA Lectr.

Camps, W. A., [Pemb.], MA Lectr.

Chadwick, J., [Down.], MA Lectr.

Coleman, R. G. G., [Emm.], MA Lectr.

- Crook, J. A., [Joh.], MA  
Deas, H. T., [Cai.], MA  
Duke, Alison, [Girton], MA  
Finley, M. I., [Jes.], PhD Col., MA  
Howland, R. L., [Joh.], MA  
Kenney, E. J., [Per.], MA  
Ker, A., [Trin.], MA Oxon. & Camb.  
Lacey, W. K., [Cath.], MA  
Lee, A. G., [Joh.], MA  
Lucas, D. W., [King's], MA  
P. M. Laurence Reader, Lectr.  
Morrison, J. S., [Chur.], MA  
Papastavrou, S. J., [Pemb.], BA Oxon.,  
MA Glas. & Camb.  
(Mod. Greek) Lewis Gibson Lectr.  
Peck, A. L., [Chr.], MA PhD  
Plummer, W. H., [Corp.], MA DPhil Oxon.,  
PhD Lectr.  
Raven, J. E., [King's], MA  
Reynolds, Joyce M., [Newn.],  
MA Oxon. & Camb. Lectr.  
Sandbach, F. H., [Trin.], MA  
Bretton Reader, Lectr.  
Stubbings, P. H., [Emm.], MA PhD, FSA Lectr.  
Wallace, L. P., [King's], MA, FRSL Lectr.  
Woodhead, A. G., [Corp.], MA Lectr.  
Wilcock, M. M., [Sud.], MA Asst. Lectr.
- Colloid Science**  
Roughton, F. J. W., [Trin.], MA PhD, FRS  
J. H. Plummer Prof.  
Johnson, P., [Trin.], ScD Lectr.  
Haydon, D. A., PhD Lond., MA  
Asst. Dir. of Res.  
Ottewill, R. H., [Fitzw.], PhD Lond. & Camb.,  
MA Asst. Dir. of Res.  
..... Tech. Officer  
Chipperfield, J. R., [Cath.], BA PhD  
Asst. in Res.  
Kernohan, J. C., [Pemb.], MA PhD  
Asst. in Res.
- Criminology**  
Radzinowicz, L., [Trin.], LL.D.  
Wolson Prof., Dir., Inst. of Criminol.  
Morrison, R. L., MA EdB Glas.  
Dep. Dir., Inst. of Criminol.  
McClintock, F. H., [Chur.], BSc Lond.,  
MA Asst. Dir. of Res.  
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Asst. Dir. of Res.  
West, D. J., [Trin.], MD Lic., MA  
Asst. Dir. of Res.  
King, Joan F. S., [Newn.], MBE, BA Lond.,  
MA Sr Asst. in Res.
- Czech, see Slavonic Studies**
- Danish**  
Fenger, H. J., [Chr.], PhD Aarhus, MA Lectr.
- Divinity, see also Oriental Studies**  
Ratcliff, Rev. E. C., [Joh.], MA Oxon. &  
Camb. Regius Prof.  
Moule, Rev. C. F. D., [Cis.], MA  
Lady Margaret's Prof.
- Lectr.  
Mackinnon, D. M., [Corp.], Hon. DD  
Aberd., MA Oxon. & Camb.  
Norman-Hulse Prof.  
Lampe, G. W. H., [Cai.], MC, Hon. DD  
Edu. DD Oxon. & Camb. Ely Prof.  
Barnes, E., [Cai.], DPhil Bonn Lectr.  
Benzant, Rev. J. S., [Joh.], MA Oxon.,  
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Freud, W. H. C., [Cai.], DPhil Oxon.,  
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Hall, Rev. B., [Fitzw.], MA Lectr.  
Hart, Rev. H. St. J., [Qu.], BD Lectr.  
Montefiore, Rev. H. W., [Cai.], MA Oxon. &  
Camb. Lectr.  
Root, Rev. H. E., [Emm.], BA Oxon., MA Lectr.  
Schofield, Rev. J. N., [Chr.], MA Lectr.  
Stevenson, J., [Down.], AM Prim., MA Lectr.  
Styler, Rev. G. M., [Corp.], MA Lectr.  
Vidler, Rev. A. R., [King's], DD Edin.,  
Hon. DD Trin. Coll. Tor., LatD BD Lectr.  
Wiles, Rev. M. F., [Cai.], MA Lectr.  
Woods, Rev. Canon G. F., [Down.], BD Lectr.  
Landers, Rev. F. C., [Joh.], BD Asst. Lectr.  
Newsome, D. H., [Emm.], MA Asst. Lectr.
- Dutch**  
King, P. K., [King's], MA Lond. & Camb. Lectr.
- Economic History, see Hist.**
- Economics and Politics**  
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FBA (Pol Econ.) Prof.  
Robinson, E. A. G., [Sud.], CMG, OBE, MA,  
FBA (Econ.) Prof.  
Kahn, R. F., [King's], CBE, MA (Econ.) Prof.  
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(Finance & Acctg.) P. D. Leake Prof.  
Champernowne, D. G., [Trin.], MA Oxon.  
& Camb. (Econ.) Reader  
Dobb, M. H., [Trin.], MA (Econ.) Reader  
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Robinson, Mrs. Joan V., [Newn.], MA  
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Annan, N. G., [King's], OBE, MA Lectr.  
Borrell, K. E., [King's], BSc Lond., MA Lectr.  
Cohen, Ruth L., [Newn.], MA Lectr.  
Deane, Phyllis M., [Newn.], MA Lectr.  
Farrell, M. J., [Cai.], MA Oxon. & Camb. Lectr.  
Fisher, M. R., [Down.], MA N.Z., PhD Lectr.  
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Girdlers' Lectr.  
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Hahn, F. H., [Chur.], BSc(Econ) PhD Lond.,  
MA Lectr.  
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PhD Lectr.

- Marria, R. L., [King's], MA Lectr.  
 Matthews, R. C. O., [Joh], MA Oxon. & Lectr.  
     *Comb*  
 Prest, A. R., [Chr.], MA PhD Lectr.  
 Roy, A. D., [Sud.], MA Lectr.  
 Salterston, Z. A., [Joh], MA Lectr.  
 Young, M. D., [Chur.], PhD Lond., MA Lectr.  
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     (Econ.) Asst. Dir. of Res.  
 Abrams, P., [Pot], MA PhD Asst. Lectr.  
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 Goldthorpe, J. H., [King's], BA Lond., MA  
     Asst. Lectr.  
 Pasnetti, L. L., [King's], DEcon Milan, MA  
     Asst. Lectr.  
 Posner, M. V., [Pemb], MA Oxon. & Camb.  
     Asst. Lectr.  
 Sen, A. K., [Trin.], MA PhD Asst. Lectr.  
 Armstrong, A. G., [Qu], BA Asst. in Res.
- Economics, Applied**  
 Reddaway, W. B., [Cla.], MA Reader, Dir.  
 Utting, J. E. G., [Tr. H.], MA Asst. Dir.  
 Brown, J. A. C., [Qu], MA Sr. Res. Officer  
 Weddesburn, Mrs. Dorothy E. C., [Guton], MA  
     Sr. Res. Officer  
 Cook, Pauline L., [Newn.], MA PhD Res. Officer  
 Dean, R. M., [Joh], MA Oxon. & Camb.  
     Res. Officer  
 Feinstein, C. H., [Fitzw.], BCom Rand, PhD  
     Res. Officer  
 Ghandhi, J. K. S., [King's], PhD Res. Officer  
 Mitchell, B. R., [Pot], MA Aberd., PhD  
     Res. Officer  
 Revell, J. R. S., [Selw.], BSc Lond., MA  
     Res. Officer  
 Roth, G. J., [Chr.], MA Res. Officer  
 Pyatt, F. G., [Cai.], PhD Res. Officer  
 6 Jr. Res. Officers
- Economics, Farm, see Agriculture, below**
- Education**  
 Lloyd, W. A., [Trin.], MA Birm., PhD Prof.  
 Bouhnd, H. F., [Cla.], PhD Lond., MA Lectr.  
 Bruce, D. J., [Corp.], BSc PhD R'dg., MA R'dg. & Comb Lectr.  
 O'Malley, R. M., [Trin.], MA Lectr.  
 Wileman, Margaret A., [Guton], MA Oxon. & Comb Lectr., Dir. of Women Students  
 Bradshaw, Doris, [Guton], MA Oxon. & Comb Sr. Deptl. Lectr.  
 Gladwell, Constance W. L., [Newn.], PhD Lond., MA Sr. Deptl. Lectr.  
 Harnes, S. G., [Jes.], MA Sr. Deptl. Lectr.  
 Hunt, A. G., [Pot.], MA Sr. Deptl. Lectr.  
 Kellaway, W. G., [Corp.], BSc Lond., MA Sr. Deptl. Lectr.  
 Williams, Hilda, [Guton], MA Sr. Deptl. Lectr.  
 Bottrall, Mrs. Margaret F. S., [Newn.], MA Oxon. & Comb Deptl. Lectr.  
 Linfoot, Mrs. Joyce J., [Guton], MA Deptl. Lectr.  
 Raitt, J. G., [Sed.], MA Deptl. Lectr.
- Roach, J. P. C., [Corp.], MA PhD Deptl. Lectr.  
 Tulasiewicz, W. F., BA Wales, MA Deptl. Lectr.
- Egyptology, see Oriental Studies**
- Engineering, see below**
- English, see also Anglo-Saxon**  
 Wiley, B., [Pemb.], Hon. LittD Manc., MA, FBA, FRSL  
     (Engl. Lit.) King Edward VII Prof.  
 Lewis, C. S., [Magd.], Hon. DD St. And., Hon. DSc Lond., Hon. LittD Manc., MA Oxon. & Camb., FBA, FRSL  
     (Mediev. & Renaissance Engl.) Prof.  
 Budbrook, Muriel C., [Guton], LittD Reader  
 Bennett, Mrs. Joan, [Guton], MA Lectr.  
 Broadbent, J. B., [King's], MA Edin., PhD Lectr.  
 Brownish, J. J., [Joh.], MA Lectr.  
 Davis, D. A., [Cai.], MA PhD Lectr.  
 Davies, H. S., [Joh.], MA Lectr.  
 Henn, T. R., [Cath.], CBE, MA  
     (Poetry & Drama) Lectr.  
 Hodgart, M. J. C., [Pemb.], MA Lectr.  
 Holloway, J., [Qu.], LittD Aberd., DPhil Oxon., MA Oxon. & Camb., FRSL (on leave) Lectr.  
 Hough, G. G., [Chr.], LittD Lectr.  
 Jack, I. R. J., [Pemb.], MA Edin. & Oxon., DPhil Oxon., PhD Lectr.  
 Northern, J. R., [Cla.], MA PhD Lectr.  
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 Williams, R. H., [Jes.], MA Lectr.  
 Righter, Mrs. Bobbyann, [Guton], BA Bryn Mawr, PhD Asst. Lectr.  
 Spearing, A. C., [Qu.], MA Asst. Lectr.  
 Watson, G. G., [Joh.], MA Oxon. & Camb. Asst. Lectr.  
 Winny, J., [Selw.], MA Asst. Lectr.
- Enzyme Biochemistry, see Biochem.**
- Estate Management, see Agriculture, below**
- French**  
 Harmer, L. C., [Trin.], L&L Bordeaux, MA PhD Dragna Prof., Hd of Dept  
 Barrère, J. B. M., [Joh.], D&L Paris, MA (F. Lit.) Prof.  
 Aston, S. C., [Cath.], MA PhD Lectr.  
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 Charvet, P. E., [Corp.], MA Lectr.  
 Combe, T. G. S., [Pemb.], DUBordeaux, MA Edin. & Camb Lectr.  
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 de Mourgues, Mrs. Odette M. H. L., [Guton], L&L Aix-Marseille, PhD Lectr.  
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James, E. D., [Joh.], MA PhD  
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 Leigh, R. A., [Trin.], BA Lond., MA  
 Paré, I. S., [Qu.], MA  
 Rickard, P., [Emm.], MA DPhil Oxon.,  
 PhD  
 Topfield, L. T., [Cath.], MA PhD  
 (also Provencal) Lectr.  
 Coleman, Mrs. Dorothy, [New H.], PhD  
 Glen, MA  
 Lorne, I. S., [Cla.], MA  
 2 Lectors

Lectr. Black, W. W., [Cla.], PhD Leeds, MA  
 Lectr. Brighton, A. G., [Chi.], MA  
 Lectr. Lectr., Curator of Sedgwick Museum  
 Lectr. Harland, W. B., [Cai.], MA  
 Lectr. Hey, R. W., [Chur.], MA PhD  
 Lectr. Hughes, N. F., [Qu.], MA  
 Lectr. Friend, P. F., [Cai.], MA  
 Demr. Hudson, J. D., [Magd.], MA PhD  
 Demr. Larwood, G., [Cath.], PhD Lond., MA  
 Demr. Rudwick, M. J. S., [Corp.], MA PhD  
 Sr Asst. in Res.  
 Cowie, Cynthia M., [Newm.], BA Asst. in Res.  
 Forbes, C. L., [Cla.], MA PhD  
 Asst. Curator of Sedgwick Museum

## Genetics

Thoday, J. M., [Emm.], BSc Water, PhD  
 Arthur Balfour Prof.  
 Owen, A. R. G., [Trin.], MA PhD Lectr.  
 Pateon, J. A., [Chur.], PhD Lond., MA Lectr.  
 Bodmer, W. F., [Cla.], MA PhD Demr.  
 Wallace, Mrs. Margaret B., [Gorton], MA  
 PhD Sr Asst. in Res.  
 Gibson, J. B., [Chur.], PhD Sheff., MA  
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## Geodesy and Geophysics

Brown, B. C., [Trin.], MA  
 (Exper. Geophys.) Reader  
 Bullard, Sir Edward C., [Chur.], ScD, FRS  
 (Geophys.) Reader, Hd of Dept.  
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 Hill, M. N., [King's], MA PhD, FRS  
 Asst. Dir. of Res.  
 Beishé, J. C., [Chr.], MS Wis., MA PhD  
 Sr Asst. in Res.  
 Matthews, D. H., [King's], MA PhD  
 Sr Asst. in Res.

## Geography

Stears, J. A., [Cath.], MA Prof.  
 Caesar, A. A. L., [Cath.], MA Lectr.  
 Chorley, R. J., [Sid.], MA Oxon. & Camb.  
 Funnell, B. H., [Joh.], MA Lectr.  
 Grove, A. T., [Cath.], MA Lectr.  
 Haggitt, P., [Cath.], MA Lectr.  
 Mitchell, Jenn B., [Newm.], MA Lectr.  
 Smith, C. T., [Joh.], MA Lectr.  
 Sparks, B. W., [Jes.], BA Lond., MA Lectr.  
 Steers, Mrs. Harriet G., [Gorton], MA Lectr.  
 Williams, W. W., [Fitzw.], MA Lectr.  
 Wrigley, E. A., [Pet.], MA PhD Lectr.  
 Board, C., [Trin.], BA Lond., MA Demr.  
 Steadart, D. R., [Joh.], BA Demr.  
 Robin, G. de Q., [Cai.], MSc Metb.,  
 PhD Birm., MA Dii., Scott Polar Res. Inst.  
 Armstrong, T. E., [Magd.], MA PhD  
 Asst. Dir. of Polar Res.  
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 Asst. Dir. of Polar Res.  
 Evans, S., [Joh.], PhD Manc., MA  
 Sr Asst. in Polar Res.

## Geology, see also Mineral and Petrology

Bulman, O. M. B., [Sid.], PhD Lond., ScD,  
 FRS, FGS Woodwardian Prof.  
 Black, M., [Trin.], MA Lectr.

## Geophysics, see Geodesy

## German

Forster, L. W., [Selw.], DPhil Biele, MA  
 Schoder Prof.  
 Knight, A. H. J., [Trin.], MA Reader  
 Gray, R. D., [Emm.], MA PhD Lectr.  
 Green, D. H., [Trin.], MA Lectr.  
 Jones, T. D., [Jes.], MA Lectr.  
 Stern, J. P., [Joh.], MA PhD Lond., MA Lectr.  
 Stopp, F. J., [Cai.], MBE, PhD Lond., MA Lectr.  
 Trevelyan, C. H., [King's], MA Lectr.  
 Wisbey, R. A., [Down.], DPhil Fran.,  
 MA Lectr.  
 Johnson, L. P., [Pemb.], BA Durb.,  
 PhD Kiel, MA Asst. Lectr.  
 Roubicek, P. A., [Cla.], Hon. MA Asst. Lectr.  
 1 Lectr.

## Hebrew, see Oriental Studies

## History, see also Classics, and Oriental Studies

Knowles, Rev. M. C., [Pet.], Hon. DLitt  
 Oxon., Hon. LittD Birt. & Leic.  
 LittD, FBA, FSA (Mod. H.) Regius Prof.  
 Chadwick, Rev. W. O., [Selw.], Hon. DLitt  
 St. And., DD, FBA (Eccles. H.) Dike Prof.  
 Jones, A. H. M., [Jes.], MA Oxon. & Camb.  
 FBA, FSA (Anc. H.) Prof.  
 Rich, E. R., [Cath.], MA  
 (Imperial & Naval H.) Vere Harmsworth  
 Prof.  
 Postan, M. M., [Pet.], MSc Lond., MA,  
 FBA (Econ. H.) Prof.  
 Butterfield, H., [Pet.], Hon. DLitt Belf.,  
 Hon. LLD Aber., Hon. DLitt N U L.,  
 H.K. & Sheff., Hon. LittD Harv. &  
 Cal., MA (Mod. H.) Prof.  
 Cheney, C. R., [Corp.], MA Oxon. & Camb.,  
 FBA (Mediev. H.) Prof.  
 Mansergh, P. N. S., [Joh.], OBE, BLitt  
 MA DPhil Oxon., PhD  
 (H. of British Commonwealth) Smuts Prof.  
 Bryson, T. A. M., [Joh.], MA  
 (Palaeog. & Diplomacy) Reader  
 Grierson, P., [Cai.], MA, FSA, FBA  
 (Mediev. Numismatics) Reader  
 Kinson Clark, G. S. R., [Trin.], Hon. DLitt  
 Durb., LittD (Constitutional H.) Reader



- Plumb, J. H., [Chr.], LittD, FSA,  
FRHistS (Mod. Engl. H.) Reader
- Ullmann, W., [Trin.], JuD *Prætor &*  
*Lombard*, LittD
- Wilson, C. H., [Jes.], MA  
(Mod. Econ. H.) Reader
- Behrens, Catherine B. A., [Newn.], MA Oxon.  
& Camb. Lectr.
- Bennett, R. F., [Magd.], MA Lectr.
- Brock, W. R., [Selw.], MA PhD  
(American H.) Lectr.
- Bury, J. P. T., [Corp.], MA Lectr.
- Crawley, C. W., [Tr. H.], MA Lectr.
- Ellis, J. H., [Trin.], MA PhD Lectr.
- Elton, G. R., [Cla.], PhD MA *Lowd.*,  
LittD Lectr.
- Evannett, H. O., [Trin.], MA Lectr.
- Fisher, D. J. V., [Jes.], MA Lectr.
- Forbes, D., [Cla.], MA Lectr.
- Gallagher, J., [Trin.], MA  
(Colonial Studies) Lectr.
- Hibbert, A. B., [King's], MA Lectr.
- Hinsley, F. H., [Joh.], MA Lectr.
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(H. of Sci.) Lectr.
- Joshin, D. M., [Pemb.], MA Lectr.
- Laslett, T. P. R., [Trin.], MA Lectr.
- McDonald, A. H., [Cla.], LLD *Glar.*, MA  
PhD (Anc. H.) Lectr.
- Mathias, P., [Qu.], MA Lectr.
- Miller, E., [Joh.], MA Lectr.
- Morna, G. C., [King's], MA Lectr.
- Purcell, V. W. W. S., [Trin.], LittD Lectr.
- Robinson, R. E., [Joh.], MA PhD Lectr.
- Saltmarsh, J., [King's], MA, FSA Lectr.
- Smal, R. C., [Sel.], MBE, MA PhD Lectr.
- Street, J., [Fitzw.], MA PhD  
(Latin-American Studies) Lectr.
- Thomson, D., [Sel.], MA PhD Lectr.
- Vaughan, R., [Corp.], MA PhD Lectr.
- White, R. J., [Down.], MA Lectr.
- Wormald, B. H. G., [Pet.], MA Lectr.
- Beales, D. E. D., [Sel.], MA PhD Asst. Lectr.
- Covling, M. J., [Jes.], MA Asst. Lectr.
- Hinton, R. W. K., [Pet.], MA PhD Asst. Lectr.
- MacDonagh, O. O. G. M., [Cath.], MA  
PhD Asst. Lectr.
- McKendrick, N., [Cas.], MA Asst. Lectr.
- Parkin, C. W., [Cla.], MA Asst. Lectr.
- Porter, H. C., [Selw.], MA PhD,  
FRHistS Asst. Lectr.

### History and Government, American

...

Reader

### History and Institutions, American

Franklin, J. H., [Joh.], AM PhD *Harc.*  
Pitt Prof. (1962-63)

### Human Ecology, see Medicine

### Indian Studies, see Oriental Studies

### Industrial Relations

Karkaldy, H. S., [Qu.], CBE, LLB *Edm.*,  
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### Iranian Studies, see Oriental Studies

### Italian

Lamentani, U., [Corp.], PhD *Lowd.*, DLitt  
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Brand, C. P., [Tr. H.], MA PhD Lectr.

Foster, Rev. F. S., [Chr.], MA PhD Lectr.

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### Japanese, see Oriental Studies

### Land Economy, see Agriculture, below

### Latin, Medieval

Dronke, E. P. M., [Pet.], BA *Garr.*,  
MA N.Z. & Camb. Lectr.

### Law

Duff, P. W., [Trin.], MA (Civ. L.) Regius Prof.

Jennings, Sir W. Ivor, [Tr. H.], KBE,  
QC, LLD *Lowd.*, Hon. LLD *Brat.*,  
*S'w.*, *Cryl.*, *Leeds*, *Belf.* & *H.K.*,  
Hon. DU *Paris*, LittD, FBA  
(Laws of England) Downing Prof.

Jennings, R. Y., [Jes.], MA LLB  
(Internat. L.) Whewell Prof.

Bailey, S. J., [Joh.], LLD  
(Engl. L.) Rouse Ball Prof.

Hanson, C. J., [Trin.], MA LLM  
(Compar. L.) Prof.

Jackson, R. M., [Joh.], LLD  
(Publ. L. & Admin.) Reader

Lipstein, K., [Cla.], PhD  
(Conflict of Laws) Reader

Williams, G. L., [Jes.], LLD, FBA  
(Engl. L.) Reader

Armistage, A. L., [Qu.], MA LLB Lectr.

Ashton-Cross, D. I. C., [Joh.], BL *Edm.*,  
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Dice, R. W. M., [Magd.], MA LLB Lectr.

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 Jones, G. H., [Trin.], LL.M. *Harv.*, MA  
 LLB Asst. Lectr.  
 O'Higgins, P., [Chr.], MA LLB Dub.,  
 PhD Asst. Lectr.  
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### Linguistics, General

Lycens, J., [Chr.], MA PhD Lectr

### Logic, see Philos.

### Mathematical Laboratory

Wilkes, M. V., [Joh.], MA PhD, FRs Dir.  
 Miller, J. C. P., [Trin.], ScD Lectr.  
 Swannerton-Drye, H. F. F., [Trin.], MA Lectr  
 Wheeler, D. J., [Trin.], BA PhD  
 Asst. Dir. of Res.  
 Barron, D. W., [Down.], MA PhD  
 Se Asst in Res  
 Mayhew, Margaret A., [Girton], BA  
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 Mutch, Mrs Margaret O., [Girton], MA  
 Asst in Res  
 Mutch, E. N., [King's], BSc Lond., MA  
 Supt of Computing Services  
 Wiseman, N. E., BSc Lond., MS III  
 Chief Engineer

### Mathematics

Hodge, Sir William, [Pemb.], Hon DSc  
*Brent, Erec, Linc., Sheff. &*  
*Water*, Hon LLD MA *Edin.*, ScD,  
 FRs  
 (Astron. & Geom.) Lowndean Prof.  
 Hall, P., [King's], MA, FRs  
 (Pure M.) Sadlerian Prof.  
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 Hon. LLD *Edin.*, Hon. DSc *Leeds, Hull*  
 & *Wales*, ScD, FRs  
 (Theory of Functions) Reader  
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 (Math. Analysis) Reader  
 Ingham, A. E., [King's], MA, FRs  
 (Math. Analysis) Reader  
 Smutner, F., [Joh.], BA PhD  
 (Functional Analysis) Reader  
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### Mathematics, Applied, see also Phys.

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### Mechanical Sciences, see Engineering, below

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Mycology, see Agriculture, below, and Bot.

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Pathology, see Medicine, below

Persian, see Oriental Studies, below

Petrology, see Mineral.

Pharmacology, see Medicine, below

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## Quaternary Research, see Bot.

## Rabbinics, see Oriental Studies, below

## Radiophysics, see Phys.

## Radiotherapeutics, see Medicine, below

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## Sanskrit, see Oriental Studies, below

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**Tibetan**, see Oriental Studies, below

**Turkish**, see Oriental Studies, below

**Veterinary Medicine**, see Veterinary  
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 Peches, A S., CBE, DSc Lond., ScD, FRS, *Mary Marshall Prof. (Physiol of Reproduction)*  
 Lyons, J., MA PhD, *U. Lectr. (Gen Linguistics)*  
 Courtney, C. P., BA Belf., DPhil Oxon., *U. Lectr. (French)*  
 Lachmann, P. J., MA PhD  
 Hoddington, T., BA  
 Munro, A. J., BA

## CHURCHILL COLLEGE

Founded in 1960 as a memorial to the Rt. Hon. Sir Winston Churchill, KG, OM, CH, the college is especially but not wholly concerned with the advancement of science and technology. The first graduate students came into residence in Oct. 1960 and the first undergraduates came into residence in Oct. 1961. Junior members in residence (1961-62). BAs and Research Students, 50, undergraduates, 78. Telephone: Cambridge 51355

Master—Sir John D. Cockcroft, OM, KCB, CBE, MScTech Manc., Hon. DSc Oxon., Lond., Syd., AN U, Manc., Leeds, Burm. & Laic, Hon. LLD Trin., Glas. Metb., St And & Dal, Hon. ScD Dub., Camb. & W.Aust., Hon. DEng Staff., Hon. DTechSc TH.Delft, MA PhD, MICE, FIP, FRS

## Fellows

- Morison, J S., MA, *Vice-Master, Sr. Tutor, U. Lectr. (Classics)*  
 Orrell, J A., CBE, MC, MA  
 Snow, Sir Charles P., CBE, Hon. LLD Linc. & Lw., PhD, FRSL  
 Bulleid, Sir Edward C., ScD, FRS, *Reader (Geophysics)*  
 Ashmore, P. G., MA PhD, *Tutor for Advanced Students, U. Lectr. (Phys Chem.)*  
 Hey, R W., MA PhD, *Dean of Coll., U. Lectr. (Geol)*  
 McQuillen, K., MA PhD, *U. Lectr. (Biochem.)*  
 Squire, P E., MA PhD, *U. Lectr. (Russian)*  
 Wilson, C. A. St. J., MA, *U. Lectr. (Archaeol)*  
 Armstrong, W D., MA PhD, *U. Lectr. (Chem. Eng.)*  
 Adrian, Hon. R H., MA MB BChir, *Tutor, U. Lectr. (Physiol)*  
 Livesley, R K., PhD Manc., MA, *U. Lectr. (Eugens)*  
 Kelly, A., BSc R'dg., PhD, *Goldsmiths' Fellow, U. Lectr. (Metall.)*  
 Katsitsky, A. R., BSc MA DPhil Oxon., PhD, *U. Lectr. (Org. & Inorg Chem.)*  
 Wells, M. J., MA, *U. Demr. (Zool)*  
 Taylor, J. G., MA PhD  
 Thouless, D. J., PhD Cam., MA, *U. Asst. Lectr. (Appl. Maths.)*  
 Hahn, F. H., BSc(Econ) PhD Lond., MA, *U. Lectr. (Econ)*  
 Hamilton, Major-Gen. J. R. C., CB, CBE, DSO, MA, *Bursar*  
 Tizard, R. H., MA Oxon. & Camb., *Tutor*  
 Gutschick, A. O., BA, *Sydney Harvey Fellow*  
 Howie, A., BSc Educ., PhD, *U. Demr. (Phys.)*  
 Sinclair, A. A., BA  
 Keynes, R. D., MA PhD  
 Young, M. D., PhD Lond., MA, *U. Lectr. (Econ)*  
 Hewish, A., MA PhD, *U. Lectr. (Phys)*  
 Roakill, Capt S W., DSC, MA  
 Loynes, R. M., BA, C.E.G.B. Fellow  
 Miller, J. A., BSc Hnd., MSc Burm., PhD  
 Robinson, I. C., BA  
 Killen, J. T., BA Dub., *Gulbenkian Fellow*  
 Gibson, J. B., PhD Staff., MA

Seiner, G. PhD  
 Phillips, C. K., MA, *Dep. U. Treasurer*  
 Potemkin, J. A., PhD Lond., MA, *U. Lectr. (Genetics)*  
 Cameron, D. W., MSc Q'nd., PhD Manc., MA,  
*U. Densr. (Org. Chem.)*  
 Callee, A. B., PhD Bonn & Camb., MA, *U.*  
*Densr. (Phys. Chem.)*  
 Epstein, D. B. A., BA PhD, *U. Asst. Lectr.*  
*(Maths.)*  
 Woth, C. P., MA PhD, *U. Lectr. (Engin.)*  
 Nicoll, G. R., BSc St. And., MA, *U. Lectr. (Engin.)*

Campbell, R. C., MA PhD, *U. Lectr. (Agric. Stats.)*  
 Kendall, D. G., MA Oxon., *Prof. (Mathl. Stats.)*  
 Burriss, D. A., BA  
 Cherry, B. W., BA  
 Clyne, M. A. A., BA  
 Deery, A. E., BA  
 McClintock, F. H., BSc Lond., MA, *Asst. Dir. of Res. (Crusmol.)*  
 McConnell, J. D. C., MSc Belf., MA PhD, *U. Lectr. (Mineral & Petrol.)*

## CLARE COLLEGE

Founded in 1346 by Richard de Badew as University Hall, and refounded about 1359 by Lady Elizabeth, granddaughter of King Edward I and sister and co-heiress of Gilbert, Earl of Clare. Junior members in residence (1961-62), 403. Telephone: Cambridge 58681.

Master—Sir Eric Ashby, DSc Lond., Hon. DSc N.U.L., & Nig. Hon. ScD Dub., Hon. LLD St. And. & Aberd., Hon. DLitt. W. Ont., DIC, MA

Fellows  
 Thirkell, Sir Henry, CBE, MC, MA  
 Harrison, W. J., MBE, MA  
 Godwin, H., ScD, FRSE, FRS, *Prof. (Bot.)*  
 Jones, O. T., DSc Wales, MA, FRSE  
 Hutton, R. S., DSc Manc., MA  
 Wilmer, E. N., ScD, FRSE, *Steward, Reader (Hist.)*  
 Roddaway, W. B., MA, *Reader (Appl. Econ.)*  
*Dir. Dept. of Appl. Econ.*  
 Chibnall, A. C., ScD, FRSE  
 Baker, Sir John F., OBE, DSc Wales, Hon. DSc Leeds, Hon. DSc Lond., ScD, FRSE, MICE, *Prof. (Mech. Sci.)*  
 Moule, Rev. C. F. D., MA, *Lady Margaret's Prof. (Div.)*  
 Cooper, B., MA, *Bursar & Financial Tutor, U. Lectr. (Engin.)*  
 Boyd, J. D., MD Belf., MA, FLS, *Prof. (Anat.)*  
 McDonald, A. H., LLD Glas., MA PhD, *U. Lectr. (Anc. Hist.)*  
 Pippard, A. B., MA PhD, FRSE, *Librarian, J. H. Plummer Prof. (Phys.)*  
 Kingsford, R. J. L., MA, *Sec. U. Press Syndicate*  
 Northam, J. R., MA PhD, *Tutor, U. Lectr. (Engl.)*  
 Gilmour, J. S. L., MA, FLS, *Dir., U. Botanic Garden*  
 Wedderburn, K. W., MA LLB, *U. Lectr. (Law)*  
 West, R. G., MA PhD, *U. Lectr. (Bot.)*  
 Forbes, D., MA, *Proctor, U. Lectr. (Hist.)*  
 Elton, G. R., PhD MA Lond., LittD, *U. Lectr. (Hist.)*  
 Parkin, C. W., MA, *Asst. Tutor, U. Asst. Lectr. (Hist.)*  
 Smiley, T. J., MA PhD, *Asst. Tutor, U. Lectr. (Moral Philos.)*  
 Lipstein, K., PhD, *Reader (Conflict of Laws)*  
 Reese, C. B., MA PhD, *U. Densr. (Chem.)*  
 Eden, R. J., MA PhD, *U. Lectr. (Appl. Math.)*  
 Wright, G. H., MD, *Asst. Tutor, U. Lectr. (Anat.)*  
 Bodmer, W. F., MA PhD, *U. Densr. (Genetics)*  
 Laurie, I. S., MA, *U. Asst. Lectr. (French)*  
 Duncan, G. C., MA  
 Wiles, Rev. M. F., MA, *Densr., U. Lectr. (Div.)*  
 Black, W. W., PhD Leeds, MA, *Asst. Tutor, U. Lectr. (Geol.)*  
 Fortescue, R. L., MA, *U. Lectr. (Engin.)*  
 Korner, A., MA PhD, *Registrar for Admissions, U. Lectr. (Buchaw.)*  
 Hains, V., MSc N.Z., PhD, *U. Densr. (Phys.)*  
 Lynden-Bell, D., MA PhD, *U. Asst. Lectr. (Appl. Maths.)*  
 Roubicek, P. A., Hon. MA, *U. Asst. Lectr. (Genetics)*  
 Bown, M. G., MA PhD, *U. Densr. (Mineral & Petrol.)*  
 Turpin, C. C., MA LLB, *U. Lectr. (Law)*  
 Newton, J. M., MA  
 Riley, K. F., MA PhD, *U. Densr. (Phys.)*  
 Hartley, B., BA  
 Schofield, R. S., BA  
 Holster, F. D., MA (Archit.) Harv., MA, *U. Lectr. (Estate Management)*  
 Tapp, R. L., BA

## CORPUS CHRISTI COLLEGE

Founded in 1525 by the Cambridge Guilds of Corpus Christi and of the Blessed Virgin Mary, who obtained a licence from King Edward III through the intercession of Henry, Duke of Lancaster. Junior members in residence (1961-62): BAs and Research Students, 60; undergraduates, 188. Telephone: Cambridge 59418

Master—Sir Frank G. Leo, GCMG, KCB, MA

Fellows  
 Puckerton, K. W. M., LittD  
 Clark-Kennedy, A. E., MD, FRCP  
 Sanders, T. R. B., CB, MA  
 Charvet, P. E., MA, *U. Lectr. (French)*  
 Cartu, G. S., MA PhD

- Lee, Sir H. Desmond P., MA  
 Bury, J. P. T., MA, *President, U. Lectr. (Hist.)*  
 Vincent, E. R. P., CBE, MA DPhil Oxon., LittD  
 Smyth, Rev. Canon C. H. E., MA  
 Thouless, R. H., ScD  
 Harley-Mason, J., ScD, *Steward of Estates, U. Lectr. (Chem.)*  
 Dickens, B., Hon. LittD Manc., MA, FBA  
 Henderson, R. F., MA PhD, *Treasurer*  
 Moore, Rev. E. G., MA  
 Styles, Rev. G. M., MA, *Precentor, U. Lectr. (Div.)*  
 Woodhead, A. G., MA, *Prælector, U. Lectr. (Classics)*  
 Roach, J. P. C., MA PhD, *Domestic Burner, Dept. Lectr. (Educ.)*  
 Faber, T. E., MA PhD, *U. Lectr. (Phys.)*  
 Vaughan, R., MA PhD, *Librarian, Asst. Tutor, U. Lectr. (Hist.)*  
 Longuet-Higgins, H. C., DPhil Oxon., MA, FRSE, *Warden, J. H. Plummer Prof. (Theoret. Chem.)*  
 Chenev, C. R., MA Oxon. & Camb., FBA, *Prof. (Medic. Hist.)*  
 Lewis, P. R., DPhil Oxon., MA Oxon. & Camb., *Burner for Coll. Bldgs., Asst. Dir. of Res. (Anat.)*  
 Mackinnon, D. M., Hon. DD Aberd., MA Oxon. & Camb., *Norris-Hulse Prof. (Div.)*  
 McKenzie, D. F., MA PhD  
 Maw, D. J., BSc PhD Lond., MA, *Sr. Asst. in Res. (Engin.)*  
 Buisset, D. J., MA PhD, *Res. Fellow (Hist.)*  
 Tanner, M. K., MA, *Dean of Coll., U. Asst. Lectr. (Moral Sci.)*  
 Taylor, R. J., MA PhD  
 Beerman, J. T., MA, *U. Lectr. (Spanish)*  
 Bowker, Rev. J. W., BA Oxon., *Chaplain*  
 Beck, A. H. W., BSc Lond., MA, *U. Lectr. (Engin.)*  
 Bruce, D. J., BSc PhD R'dg., MA R'dg. & Camb., *U. Lectr. (Educ.)*  
 Cendel, E. B., MA, *Tutor, U. Lectr. (Oriental Langs.)*  
 Coombs, R. R. A., BSc Edin., PhD, *Asst. Dir. of Res. (Pathol.)*  
 Cross, B. A., BSc Lond., MA PhD, *U. Lectr. (Vet. Anat.)*  
 Green, M. L. H., BSc PhD Lond., MA, *U. Deur. (Inorg. Chem.)*  
 Gregory, R. L., MA, *U. Lectr. (Exper. Psychol.)*  
 McBurney, C. B. M., MA PhD, FSA, *U. Lectr. (Archæol.)*  
 Page, R. I., MA Sheff., PhD Nott., *U. Lectr. (Anglo-Saxon)*  
 Rudwick, M. J. S., MA PhD, *Asst. Tutor, Sr. Asst. in Res. (Geol.)*  
 Tubbs, P. K., MA PhD, *Tutor for Advanced Students, U. Deur. (Biochem.)*  
 Bain, A. D., MA, *U. Asst. Lectr. (Econ.)*  
 Nicoll, W. S. M., BA, *Res. Fellow (Classics)*

# DOWNING COLLEGE

Founded in 1800 by Sir George Downing, Baronet. Junior members in residence (1961-62):  
 BAs and Research Students, 51; undergraduates, 315. Telephone: Cambridge 59491.

Master—W. K. C. Guthrie, LittD, FBA, *Laurence Prof. of Anc. Philos.*

## Fellows

- Whalley-Tooker, H. C., MA Oxon. & Camb., LL.M., *U. Lectr. (Law)*  
 Wild, F., MA PhD, FRIC, *Tutor, Res. Chemist (Med.)*  
 White, R. J., MA, *Librarian, U. Lectr. (Hist.)*  
 Parry, C., LL.D., *Steward, U. Lectr. (Law)*  
 Woods, Rev. Canon G. F., BD, *Dean of Chapel, U. Lectr. (Div.)*  
 Sporne, K. R., MA PhD, *Dean, U. Lectr. (Bot.)*  
 Middleton, G. E., MA, MIEE, *U. Lectr. (Engin.)*  
 Stevenson, J., AM Prin., MA, *Tutor & Prælector, U. Lectr. (Div.)*  
 Smith, F. G., MA PhD  
 Norman, K. R., MA, *Tutor, U. Lectr. (Indian Studies (Prakrit))*  
 Muir, W. A., MA, FRAoS, *P. Mond Prof. (Aero. Engin.)*  
 Pulleyblank, E. G., BA Alta., PhD Lond., MA, *Prof. (Chinese)*  
 Fisher, M. R., MA N.Z., PhD, *Burner, U. Lectr. (Econ.)*  
 Todd, J. A., BA PhD, FRSE, *Reader (Geom.)*  
 Wisbey, R. A., DPhil Fran., MA, *U. Lectr. (German)*  
 Gay, P., MA PhD, *Tutor, U. Lectr. (Mineral. & Petrol.)*  
 Chadwick, J., MA, *U. Lectr. (Classics)*  
 Carrington, A., BSc PhD S'ton., MA, *Asst. in Res. (Theoret. Chem.)*  
 Henderson, G. D. S., BA Aberd. & Lond., MA PhD  
 Barnea, D. W., MA PhD, *Sr. Asst. in Res. (Mathl. Lab.)*  
 Cooper, M. J., MA  
 Hopkins, J. A., BA LLB  
 Bicknell, P., MA, FRIBA, *U. Lectr. (Archit.)*  
 Hoar, T. P., ScD, *U. Lectr. (Metall.)*  
 Burgen, A. S. V., MD Lond., *Sheld Prof. (Pharmacol.)*  
 Freitag, E. H., PhD, *U. Lectr. (Engin.)*  
 Burrow, J. W., MA PhD

## EMMANUEL COLLEGE

Founded in 1584 by Sir Walter Mildmay, Chancellor of the Exchequer and Privy Counsellor, in the reign of Queen Elizabeth. Junior members in residence (1961-62), 422 Telephone: Cambridge 58356

Master—E. Welbourn, MC, MA

## Fellows

Wilson, E. M., MA PhD, *Vice-Master, Prof*  
(*Spanish*)  
Greenwood, L. H. G., MA  
Jones, Sir Bennett Melville, CBE, AFC, MA, FRS  
Gardner, R., MC, MA  
Bennett, H. S., MA, FBA  
Tilley, C. E., Hon. DSc *Medic.*, PhD, FRS  
Norwich, R. G. W., ScD, FRS, FRIC, *Prof* (*Phys.*  
*Chem.*)  
Grave, W. W., CMG, Hon. LLD *Camb. & McM.*,  
MA PhD, *Censor, Fitzwilliam House*  
Mansfield, W. S., CBE, MA  
Ward, A. J., BA PhD, *Bursar, U. Lectr* (*Maths*)  
Hunter Blair, P., MA, *Sr. Tutor, U. Lectr*  
(*Anglo-Saxon*)  
Stubbings, F. H., MA PhD, FSA, *Librarian, U.*  
*Lectr. (Classics)*  
Sanda, E. R., MA, *Asst. Tutor, U. Lectr.*  
(*Slavonic Studies*)  
Townsend, A. A., MSc *Medic.*, PhD, FRS, *Reader*  
(*Exper. Fluid Mech.*)  
Reecos, K. H., MC, MA, *Asst. Tutor, U. Lectr.*  
(*Latin*)  
Odgers, F. J., MA LLB, *Tutor, U. Lectr. (Law)*  
Richard, P. A., MA DPhil *Oxon.*, PhD, *Asst. Tutor,*  
*U. Lectr. (French)*  
Lapwood, E. R., MA PhD, *Asst. Tutor, U. Lectr.*  
(*Appl. Maths.*)

Root, Rev. H. E., BA *Oxon.*, MA, *Dean, U. Lectr.*  
(*Div.*)  
Watson, A. P., MD, *Asst. Tutor, U. Lectr.*  
(*Pathol.*)  
Titcher, D. A., MA PhD, *Asst. Tutor, U. Lectr.*  
(*Vet. Physiol.*)  
Gray, R. D., MA PhD, *Treasurer, U. Lectr.*  
(*German*)  
Thoday, J. M., BSc *Wales*, PhD, *Arthur Balfour*  
*Prof* (*Genetics*)  
Newson, D. H., MA, *Prælector, U. Asst. Lectr.*  
(*Div.*)  
Wooliam, D. H. M., MD, *Dow Bursar, U. Lectr.*  
(*Anat.*)  
Lassner, H. H., BA *Brist.*, MA, *U. Lectr. (Econ.)*  
Roddaway, J. L., MA, *U. Lectr. (Econ.)*  
Thrush, B. A., MA PhD, *Asst. Dir. of Res. (Phys.*  
*Chem.)*  
Coleman, R. G. G., MA, *U. Lectr. (Classics)*  
Bugg, D. V., MA PhD, *U. Lectr. (Phys.)*  
Clemson, P. A. M., BA *Lond.*, PhD, *U. Lectr.*  
(*Anglo-Saxon*)  
Collins, J. G., MA LLB  
Pratt, G. L., BA PhD  
Pocockshab, H. B., BSc *Medic.*, PhD  
Baker, P. F., BA  
Evans, G. D., BA

## FITZWILLIAM HOUSE

Established in 1887 as the centre of the corporate life of 'non-collegiate' students. It is an institution under the direct control of the univ. It has no rooms for students, who all live in lodgings, but otherwise provides similar facilities to a college. Junior members in residence (1961-62), 450. Telephone: Cambridge 59132.

Censor—W. W. Grave, CMG, Hon. LLD *Camb. & McM.*, MA PhD

Williams, W. W., MA, *Asst. Censor, Bursar, U.*  
*Lectr. (Geog.)*  
Walters, R. N., MA, *Tutor, Prælector*  
Herbertson, B. M., MD *Durh.*, MA, *Asst. Tutor,*  
*U. Lectr. (Pathol.)*  
Kelly, R., DULyons, MA, *Asst. Tutor, Domestic*  
*Bursar*  
Street, J., MA PhD, *Asst. Tutor, U. Lectr. (Latin-  
American Studies)*  
Lazebny, A., MSc *Wales*, MA PhD, *Asst. Tutor,*  
*U. Lectr. (Agric.)*  
Palmer, Rev. F. H., MA, *Chaplain*

## GONVILLE AND CAIUS COLLEGE

Founded in 1348 as Gonville Hall by Edmund Gonville, the name of the college and its situation were both changed by William Bateman, Bishop of Norwich, his executor, in 1353, when it became the Hall of the Annunciation of Blessed Mary the Virgin. In 1558 John Caius obtained a royal charter confirming the earlier foundations and establishing his own, and by this charter the college received its present name. Junior members in residence (1961-62) BAs and Research Students, 70; undergraduates, 458 Telephone: Cambridge 53475

Master—Sir Nevill F. Mott, Hon. DSc *Brist.*, R'dy, *Lic.*, *Granville, Lomax, Parr & Potters,*  
MA, FRS, *Cavendish Prof.* (*Exper. Phys.*)

## Fellows

Punnett, R. C., MA, FRS  
McNair, Lord, CBE, Hon. LLD *Glas., Liv.*, *Burs. & Salomons, Hon. DCL Oxon., Hon.*  
D'Let R'dy, LLD, FRA, *Conservatory*  
Phear, H. W., MA

- Debenham, F., OBE, MA  
 Tammucheff, H. E., MA, *U. Lectr. (Physiol.)*  
 Needham, N. J. T. M., ScD, FRS, *President, Sir W. Dunn Reader (Biochem.)*  
 Oakeshott, M. J., MA  
 Dens, H. T., MA, *U. Lectr. (Classics)*  
 Weller, E. P., CBE, MA, *Bursar*  
 Bowden, F. P., DSc Tas., ScD, FRS, *Reader (Phys. & Chem. of Solids)*  
 Powell, F. C., MA PhD, *Jr Bursar, U. Lectr. (Appl. Maths.)*  
 Wade, E. C. S., QC, Hon DCL Durh., LLD, FBA  
 Griffith, G. T., MA, FBA, *Lawrence Reader (Classics)*  
 Greaves, R. I. N., MD, *Prof. (Pathol.)*  
 Grierson, P., MA, FSA, FBA, *Librarian, Reader (Medieval Numismatics)*  
 Chadwick, Sir James, PhD, FRS  
 Wigglesworth, V. B., CBE, MD, FRS, *Quack Prof. (Biol.)*  
 Naylor, G. R. B., MD, *Tutor, U. Lectr. (Pathol.)*  
 Schoenberg, D., MBE, BA PhD, FRS, *Reader (Phys.)*  
 Clark, V. M., MA PhD, *Coll. Registrar, U. Lectr. (Chem.)*  
 Harland, W. B., MA, *U. Lectr. (Geol.)*  
 Prichard, M. J., MA LLB, *Prælector, U. Lectr. (Law)*  
 Banks, A. L., MD Lond., MA, FRCP, *Prof. (Human Biol.)*  
 Hewish, A., MA PhD, *U. Lectr. (Phys.)*  
 Zeeman, E. C., MA PhD, *U. Lectr. (Maths.)*  
 Montefiore, Rev. H. W., MA Oxon. & Camb., *Dean, U. Lectr. (Div.)*  
 Brink, C. O., DrPhil Berl., MA Oxon. & Camb., *Kennedy Prof. (Latin)*  
 Waddington, T. C., MA PhD, *Tutor, U. Lectr. (Chem.)*  
 Freund, W. H. C., DPhil Oxon., MA Oxon. & Camb., FSA, *U. Lectr. (Div.)*  
 Tabur, D., ScD, *U. Lectr. (Phys.)*  
 Dawe, R. D., MA  
 Whelan, M. J., MA PhD, *U. Dens. (Phys.)*  
 Stopp, F. J., MBE, PhD Lond., MA, *St. Tutor, U. Lectr. (German)*  
 McKendrick, N., MA, *Tutor, U. Asst. Lectr. (Hist.)*  
 Farrell, M. J., MA Oxon. & Camb., *U. Lectr. (Econ.)*  
 Macpherson, W. J., MA Aberd., PhD, *Tutor, U. Lectr. (Econ.)*  
 Davis, D. A., MA PhD, *U. Lectr. (Engl.)*  
 Seely, L. S., MA LLB NZ, PhD, *Tutor, U. Lectr. (Law)*  
 Chappell, J. B., BA PhD, *U. Dens. (Biochem.)*  
 Davey, K. G., PhD  
 Wood, M. D., MA PhD, *U. Lectr. (Engin.)*  
 Goodhart, C. B., MA PhD, *Tutor, U. Lectr. (Zool.)*, *Curator of Invertebrates, Museum of Zool.*  
 Tranchell, P. A., MA MusB, *Coll. Dir. of Music, U. Lectr. (Music)*  
 Lampe, G. W. H., MC, Hon DD Edin., DD Oxon. & Camb., *Ely Prof. (Div.)*  
 Hamlin, F. R., BA PhD Birm., MA  
 Quinn, C. P., BA  
 Henry, R. F., BSc Edin., PhD  
 Fitzsimons, J. T., MA PhD MB BChir, *U. Dens. (Physiol.)*  
 Barnes, A. J. L., BA  
 Friend, P. F., MA, *U. Dens. (Geol.)*  
 Pyatt, F. G., PhD, *Res. Officer (Appl. Econ.)*  
 Prynn, J. H., BA  
 Selwyn, M. J., BA

## JESUS COLLEGE

Founded in 1496 by John Alcock, Bishop of Ely. Junior members in residence (1961-62). BAs and Research Students, 50; undergraduates, 342. Telephone. Cambridge 57536.

Master—D. L. Page, MA Oxon. & Camb., LittD, FBA, *Regius Prof. of Greek*

## Fellows

- Elliott, Sir Claude A., OBE, MA  
 Parr, L. A., MA, *President*  
 Gardner-Smith, Rev. P., BD  
 Thorpe, W. H., ScD, FRS, *Reader (Animal Behaviour)*  
 Guy, O. V., CBE, DSO, MC, MA  
 Britain, F., LittD, *Prælector, Keeper of the Records*  
 Wilson, C. H., MA, *Reader (Mod. Econ. Hist.)*  
 Pettival, A. L., MA, *U. Lectr. (Engin.)*  
 Jennings, R. Y., MA LLB, *Whewell Prof. (Internat. Law)*  
 Picken, L. E. R., ScD, *Tutor, Asst. Dir. of Res. (Zool.)*  
 Fisher, D. J. V., MA, *Sr. Tutor, U. Lectr. (Hist.)*  
 Taunt, D. R., MA PhD, *Tutor, U. Lectr. (Maths.)*  
 Beveridge, W. I. B., DSc Syd., MA, *Prof. (Animal Pathol.)*  
 Sharpe, A. G., MA PhD, *Tutor, U. Lectr. (Chem.)*  
 Creswick, H. R., MA Oxon. & Camb., *U. Librarian*  
 Roberts, G. F., MD, *Bursar, U. Lectr. (Pathol.)*  
 Jones, A. H. M., MA Oxon. & Camb., FBA, FSA, *Prof. (Anc. Hist.)*  
 Dart, R. T., BA Lond., MA, *Asst. Tutor, Prof. (Music)*  
 Williams, G. L., LLD, FBA, *Reader (Engl. Lang.)*  
 Bailey, D. R. S., LittD, FBA, *U. Lectr. (Tibetan)*  
 Jones, T. D., MA, *U. Lectr. (German)*  
 Martin, Sir J. Leslie, PhD Manc., MA Manc. & Camb., FRIBA, *Prof. (Archit.)*  
 Finley, M. I., PhD Col., MA, *Librarian, U. Lectr. (Classics)*  
 Johnson, K. L., MSc Manc., MA, *U. Lectr. (Engin.)*  
 Towers, B., MB ChB Liv., MA, *Steward, U. Lectr. (Aust.)*  
 Atkins, C. J., MA PhD, *U. Dens. (Phys.)*

- McKie, D., MA PhD, *Asst Tutor, U. Devon*  
(*Mineral & Petrology*)  
Bach, Rev. F. R., MA, *Dean*  
Bush, B. M. H., MSc Rhodes, PhD  
Frankel, J., MA  
Cowling, M. J., MA, *U. Aust. Lectr. (Hist.)*  
Austin, L. J., DU Paris, MA, *Manch. Metb. & Comb. U. Lectr. (French)*  
Williams, R. H., MA, *U. Lectr. (Engl.)*  
Gibbs, A. C., BA  
Gombach, E. H. J., MA *Oxon.*, PhD *Vienne*,  
FBA, *Slade Prof. (Fine Art)*  
Sparks, B. W., BA *Leam.*, MA, *U. Lectr. (Geog.)*  
Jones, G. I., MA *Oxon. & Camb.*, *U. Lectr. (Anthropol.)*  
Gushkevich, I., DLitt *Rome*, PhD *Leam.*, MA,  
*U. Lectr. (Russian)*  
Whitehead, D. S., MA PhD, *U. Lectr. (Sociol.)*  
Evans, A. C., LittD, FBA, *Reader (Philos.)*

## KING'S COLLEGE

Founded in 1441 by King Henry VI. Under the founder's statutes, which remained in force until 1861, every vacancy had to be at once filled by the admission of a scholar from the sister foundation of King Henry VI at Eton. In 1861 provision was made for the admission of undergraduates other than scholars of Eton. Junior members in residence (1961-62): BAs and Research Students, 125; undergraduates, 283. Telephone: Cambridge 50417.

Provost—N. G. Annan, OBE, MA, *U. Lectr. (Econ.)*

- Fellows  
Sheppard, Sir John T., MBE, Hon. LittD *Manch. Metb. & N.Z.*, Hon. LittD *St. And.*, MA  
Adcock, Sir Frank E., OBE, Hon. DLitt *Durk.*, Hon. LittD *Dub.*, *Manch. & Leam.*, MA LittD, FBA  
Gray, Sir James, CBE, MC, Hon. DSc *Manch.*, DSc *Aberd.*, ScD, FRS  
Milner-White, Very Rev. R., CBE, DSO, Hon. LittD *Leam.*, MA  
Turner, L. B., ScD  
Dunford, H. G. E., MC, MA  
Lauca, F. L., OBE, MA  
Scholfield, A. F., MA  
Brathwaite, R. B., MA, FBA, *Knightbridge Prof. (Moral Philos.)*  
Stockdale, D., ScD, FRIC  
Hall, P., MA, FRS, *Sadlerian Prof. (Pure Math.)*  
Rylands, F. H. W., CBE, MA  
Matthews, Sir Bryan H. C., CBE, ScD, FRS, Prof. (Physics)  
Lucas, D. W., MA, *U. Lectr. & P. M. Laurence Reader (Chemist.)*  
Ingham, A. E., MA, FRS, *Reader (Mathl. Analysis)*  
Kahn, R. F., CBE, MA, FBA, Prof. (Econ.)  
Morris, G. C., MA, *U. Lectr. (Hist.)*  
Saltmarsh, J., MA, FBA, *U. Lectr. (Hist.)*  
Wilkinson, L. P., MA, FRS, *Vice-Provost, U. Oxon. U. Lectr. (Classics)*  
Salt, G., BSc *Alta.*, ScD *Harv. & Camb.*, FRS, *U. Lectr. (Zool.)*  
Shure, E. S., MA, *Reader (Phys.)*  
Dixon, K. C., MD, *Reader (Cytopathol.)*  
Macpherson, R. E., MA, *U. Treasurer*  
Stone, J. R. N., CBE, ScD, FBA, P. D. Leake Prof. (Finance & Accounting)  
Moulin, E. B., MA *Oxon.*, ScD, MIEE  
Dykes, P. de K., PhD *Stan.*, MA, *U. Lectr. (English)*  
Trevelyan, C. H., MA, *U. Lectr. (German)*  
Hubert, A. B., MA, *U. Lectr. (Hist.)*  
Parry, D. A., BSc *Brist.*, PhD, *Tutor for admissions & Financial Tutor U. Lectr. (Zool.)*  
Raven, J. E., MA, *Sr Tutor, U. Lectr. (Classics)*  
Radcliffe, P. P., MA *MusB.*, *U. Lectr. (Music)*  
Munby, A. N. L., LittD, *Librarian*  
Hall, M. N., MA PhD, FRS, *Asst. Dir. of Res. (Geology & Geophys.)*  
Kaldor, N., BSc *Leam.*, MA, *Reader (Econ.)*  
Cole, L. B., MD, FRCP, *Dean of postgrad. med. sch., U. Assoc. Lectr. (Physiol.)*  
Dixon, M., ScD, FRS, *Reader (Enzymes Biochem.)*  
Fortes, M., PhD *Leam.*, MA *Oxon. & Camb.*, *William Wyke Prof. (Soc. Anthropol.)*  
Marris, R. L., MA, *U. Lectr. (Econ. & Pol.)*  
Jaffé, A. M., MA, *U. Lectr. (Hist. of Art)*  
Dixon, H. B. F., MA PhD, *U. Lectr. (Biochem.)*  
Brown, D. M., BSc *Glas.*, PhD, *Lectr. (Org. & Inorg. Chem.)*  
Sanger, F., BA PhD, FRS  
Haskell, F. J. H., MA, *Librarian, Fine Arts Fac. Library*  
Barlow, H. B., MA MB BChir, *Asst. Dir. of Res. (Physiol.)*  
Zangwill, O. L., MA *Oxon. & Camb.*, Prof. (Exper. Psychol.)  
Brooke Benjamin, T., BEng *Yale*, MEng *Yale*, PhD, *Sr Asst in Res. (Engin.)*  
Griffith, J. S., MA ScD  
Solter, C. E. L., DSO, MA, *Barrister*  
Cargill Thompson, W. D. J., MA PhD, *Dean*  
Bolger, R. R., MA PhD  
Vidler, Rev. A. R., DD *Edu.*, Hon. DD *Treu. Coll. Tor.*, LittD *BD*, *Dean, U. Lectr. (Dev.)*  
Broadbent, J. B., MA *Edu.*, PhD, *U. Lectr. (Engl.)*  
Lloyd, G. E. R., MA PhD, *Professor*  
Exton, J. A., MA *MusB.*  
Zinn, J. M., DPhil *Oxon.*, MA *Oxon. & Camb.*, *Tutor (Advanced Students), U. Lectr. (Phys.)*  
Willcock, D. V., MC, MA *MusB.*, FRCS, *U. Organist, U. Lectr. (Music)*  
Gauguin, G., PhD  
Williams, J. H., MA *Edin.*, PhD, *U. Lectr. (Maths.)*  
Brenner, S., MSc MB BChir *Rand.*, DPhil *Oxon.*, PhD



- Goldthorpe, J. H., BA Lond., MA, *U. Lectr* (Econ.)  
 Polack, K., MA LL.B., *Asst. Tutor*  
 Turner, J. J., MA PhD  
 Hamer, N. K., MA PhD  
 Matthews, D. H., MA PhD, *Sr. Asst. in Res.* (*Geology & Geography*)  
 Ingham, M. F., MA PhD  
 Shils, E., MA  
 Huxley, H. E., MBE, MA PhD, FRS  
 Pesanetti, L. L., DEcon Milan, MA, *U. Asst Lectr.* (Econ.)  
 Holtbrook, D. K., MA
- Balfour, W. E., PhD Edu., MA, *U. Lectr* (Physiol.)  
 Hoer, G., BSc MB ChB Burn., MA, *U. Lectr* (Anat.)  
 Lambert, R. J., MA PhD  
 Green, J. A., BA  
 Luscombe, D. E., BA  
 Benall, K. E., BSc Lond., MA, *Bursar, U. Lectr.* (Econ.)  
 Bretherton, F. P., BA PhD  
 Gross, J., MA Oxon.

## MAGDALENE COLLEGE

Founded in 1542 by Thomas, Baron Audley of Walden. Junior members in residence (1961-62).  
 BAs and Research Students, 39; undergraduates, 260 Telephone Cambridge 59457.

Master—The Rt. Hon. Sir Henry U. Wilmk, MC, QC, Hon. LL.D. Law & Med., MA

- Fellows  
 Selter, F. R., OBE, MA  
 Morhead, Sir Owen F., GCVO, DSO, MC, MA  
 King, W. B. R., OBE, MC, Hon. LittD Harv., ScD, FRS  
 Richards, I. A., LittD  
 Turner, P. McD. C., MC, DFC, MA  
 Scott, P. R. F., MA, *President, Sr. Tutor*  
 Babbage, D. W., OBE, MA PhD, *Tutor, U. Lectr.* (Maths)  
 Saunders, B. C., ScD, *Prælector, U. Lectr.* (Org. & Inorg. Chem.)  
 Bennett, R. F., MA, *Tutor, U. Lectr.* (Hist.)  
 Ledborough, R. W., MA PhD, *Dean, Peppysian Librarian, U. Lectr.* (French)
- Burnet, J. F., MA, *Bursar, Steward*  
 Stevens, J. E., MA PhD, *Tutor, Coll. Librarian, U. Lectr.* (Engl.)  
 Hughes, G. M., MA PhD, *U. Lectr.* (Zool.)  
 Pugh, L. P., BSc Lond., MA, FRCVS, *Prof.* (Vet. Clin. Studies)  
 Lewis, C. S., Hon. DD St. And., Hon. DScL, *Leval, Hon. LittD Manc., MA Oxon. & Camb., FBA, FRSL, Prof.* (Medicine & Renaissance Engl.)  
 Dias, R. W. M., MA LL.B., *U. Lectr.* (Law)  
 Roberts, D. W., MA, *U. Lectr.* (Archit.)  
 Grubb, P. J., MA PhD, *U. Lectr.* (Bot.)  
 Hyam, R., MA  
 Dwight, J. B., MA MSc, *U. Lectr.* (Engn.)

## PEMBROKE COLLEGE

Founded in 1347 as the Hall of Valence-Mary by Mary de St. Paul, widow of Aymer de Valence, Earl of Pembroke. Henry VI was a liberal benefactor, and obtained the name of second Founder. Junior members in residence (1961-62). BAs and Research Students, 105; undergraduates, 344 Telephone: Cambridge 53241.

Master—Sir William Hodge, Hon. DSc Brist., Bsc., Law, Lev., Sheriff of Wales, Hon. LL.D. MA Edu., ScD, FRS, *Louisaean Prof. of Astron. & Geom.*

- Fellows  
 Roberts, Sir Sydney C., Hon. LL.D. St. And., MA, FRSL  
 Pennell, V. C., MA MB BChir, FRCS  
 King, B. E., MA LL.B., *U. Lectr.* (Law)  
 Camps, W. A., MA, *Tutor for Advanced Students, U. Lectr.* (Classics)  
 Rowe, J. W. F., MC, MSc Lond., MA  
 Wiley, B., Hon. LittD Manc., MA, FBA, FRSL, *President, King Edward VII Prof.* (Engl. Lit.)  
 Dewey, Rev. M. B., MA, *Asst. Tutor, Dean*  
 Stoneley, R., ScD, FRS  
 Hutton, W. S., TD, MA, *Asst. Tutor, Treasurer & Bursar*  
 Arberry, A. J., LittD, FBA, *Sir T. Adams' Prof.* (Arabic)
- Combe, T. G. S., DUBordeaux, MA Edu. & Camb., *U. Lectr.* (French), *Sr. Proctor*  
 Hodgart, M. J. C., MA, *Librarian, U. Lectr.* (Engl.)  
 Joslin, D. M., MA, *Tutor, U. Lectr.* (Hist.)  
 Smith, G. C., MA, *Asst. Tutor, U. Lectr.* (Metall.)  
 Lyons, M. C., MA PhD, *Asst. Tutor, U. Lectr.* (Arabic)  
 Grimsone, A. V., MA PhD, *Asst. in Res.* (Zool.)  
 Danckwerts, P. V., GC, MBE, MSc M.J.T., MA Oxon & Camb., *Shell Prof.* (Chem. Engn.)  
 Sutton, E. P., MA Oxon & Camb., *Asst. Tutor, Tutorial Bursar, U. Lectr.* (Engn.)  
 Leckie, F. A., BSc St. And., PhD Stan., MA, *Asst. Tutor, U. Lectr.* (Engn.)

Poenset, M. V., MA Oxon & Camb, *U. Asst Lectr. (Econ.)*  
 Dougherty, J. P., MA PhD, *U. Asst Lectr. (Appl. Maths.)*  
 Jack, I. R. J., MA Edu & Oxon, DPhil Oxon, PhD, *U. Lectr. (Engl.)*  
 Wadli, S. J., MA DPhil Oxon, PhD  
 Kingman, J. F. C., BA, *U. Asst Lectr. (Maths.)*  
 Turner, J. C. R., MA PhD, *U. Lectr. (Chem. Engn.)*

Rosenthal, E. I. J., DrPhil Berl., LittD, *Reader (Oriental Studies)*  
 Dezman, D. R., MSc PhD Lond, MA, *U. Lectr. (Estate Management)*  
 Hammond, P., MA, MIEE, *U. Lectr. (Engn.)*  
 Waldman, J. R., BA  
 Fleming, I., BA  
 Hussain, D., BSc Manc

## PETERHOUSE

Founded in 1284 by Hugo de Balsham, Bishop of Ely Junior members in residence (1961-62):  
 BAs and Research Students, 44; undergraduates, 204. Telephone: Cambridge 50256.

Master—H. Butterfield, Hon DLitt Belf., Hon LLD Aberd, Hon DLitt N.U.J., H.K. & Sheff.,  
 Hon LittD Harv. & Col., MA, Prof of Med Hist

Fellows  
 Birchill, J. C., ScD, FRS, *Reader (Mathl. Analysis)*  
 Poenset, M. M., MSc Lond., MA, FBA, *Prof (Econ. Hist.)*  
 Wormald, B. H. G., MA, *Steward, U. Lectr. (Hist.)*  
 Brogan, D. W., MA Glas. & Oxon & Camb, FBA, *Prof. (Pol. Sci.)*  
 Knowles, Rev. M. C., Hon. DLitt Oxon, Hon LittD Brit & Leic, LittD, FBA, FSA, *Regius Prof. (Med. Hist.)*  
 Kendrew, J. C., ScD, FRS  
 Clark, J. G. D., ScD, FBA, *Dunlop Prof (Archaeol.)*  
 Hinton, R. W. K., MA PhD, *Professor, Domestic Burar, Ward Librarian, U. Asst Lectr. (Hist.)*

Kenney, B. J., MA, Sr. Tutor, *Petrie Librarian, U. Lectr. (Classics)*  
 Heyman, J., MA PhD, Sr. Burar, *U. Lectr. (Engn.)*  
 Goodwin, R. M., PhD Harv., BA Litt Oxon., MA Harv. & Camb., *Graduate Lectr. (Econ.)*  
 Orgel, L. E., DPhil Oxon, MA, FRS, *Asst. Dir of Res. (Theoret. Chem.)*  
 Taylor, D. B. C., PhD Belf., MA, Tutor, *U. Lectr. (Engn.)*  
 Wrigley, E. A., MA PhD, Tutor, *U. Lectr. (Geog.)*  
 Calladine, C. R., MA, *U. Dem. (Engn.)*  
 Taylor, J. C., MA PhD, *U. Lectr. (Appl. Maths.)*  
 Anus, K. W., MA Oxon & Camb.  
 Croft, H. T., MA PhD  
 Slater, R. J., MA PhD  
 Thompson, J. M. T., MA PhD

## QUEENS' COLLEGE

Founded in 1448 by Queen Margaret of Angou, consort of King Henry VI, and refounded in 1465 by Elizabeth Wadville, consort of King Edward IV Junior members in residence (1961-62):  
 BAs and Research Students, 57; undergraduates, 402. Telephone: Cambridge 50425

President—A. L. Armitage, MA LLB, *U. Lectr. (Law)*

Fellows  
 Laffan, R. G. D., MA Oxon. & Camb.  
 Sleeman, C. M., MA  
 Browns, A. D., MA, *Vice-President*  
 Maxwell, E. A., MA PhD, Sr. Burar, *Keeper of the College Records*  
 Ramsay, J. A., MBE, MA PhD, FRS, *Reader (Compar. Physiol.)*  
 Hart, Rev. H. St. J., BD, Dean, *U. Lectr. (Div.)*  
 Bailey, Sir Harold W., DPhil Oxon., MA Oxon., *W. Asst. & Camb., FBA, Prof. (Sanskrit)*  
 Kirkaldy, H. S., CBE, LLB Edin., MA, *Montague Burton Prof. (Indust. Relations)*  
 Parnis, D., MA, *Steward, U. Lectr. (French)*  
 Deskin, C. S., MA, Jr Burar, *U. Lectr. (Engn.)*  
 Hagenbach, W., BA Manc., MA, Sr. Tutor, *U. Lectr. (Econ.)*  
 Wilson, G. P., MA LLB, *Professor, U. Lectr. (Law)*

Holloway, J., DLitt Aberd, DPhil Oxon, MA Oxon. & Camb., FRS, *U. Lectr. (Engl.)*  
 Mathias, P., MA, Tutor, *U. Lectr. (Hist.)*  
 Baldwin, J. E., MA PhD, *Asst. Dir of Res. (Phys.)*  
 Bull, M. M., MD, Tutor, *U. Lectr. (Anat.)*  
 Sugden, T. M., MA PhD, *Reader (Phys. Chem.)*  
 Cohen, H., PhD Durh., MA, *Tutor for Res. Students, U. Lectr. (Engn.)*  
 Radley, D. E., MA, *U. Dem. (Engn.)*  
 Goodyear, F. R. D., MA PhD, *Librarian*  
 Bowett, D. W., PhD Manc., MA LLB, Tutor, *U. Lectr. (Law)*  
 Spearing, A. C., MA, *U. Asst Lectr. (Engl.)*  
 Beaumont, J. W. L., ScD, *U. Lectr. (Zool.)*  
 Brown, J. A. C., MA, Sr. Res. Officer (*Appl. Econ.*)  
 Prentis, J. M., PhD Lond., MA, *U. Lectr. (Engn.)*  
 Roper, A. H., PhD Johns H., MA  
 Alty, C. J. N., BA  
 Kingston, D. G. I., BA

## ST. CATHARINE'S COLLEGE

Founded in 1473 by Robert Wodehale, Chancellor of the University and Provost of King's College Junior members in residence (1961-62): BAs and Research Students, 80; undergraduates, 373 Telephone: Cambridge 59445

Master—E E Rich, MA, *Vere Hamworth Prof of Imperial & Naval Hist*

## Fellows

Steers, J A, MA, *Prof. (Geog.)*  
Honn, T R, CBE, MA, *President, U. Lectr. (Poetry & Drama)*  
Waddams, Rev Canon C D., BSc Lond., MA, *Sr. Tutor, Hon Chaplain*  
Smith, S., MA PhD, *Steward, U Lectr (Zool)*  
Aston, S C., MA PhD, *U. Lectr. (French)*  
Thomas, D W., MA Oxon. & Camb., *Regius Prof. (Hebrew)*  
Evans, R C., MA PhD, *Tutor, U. Lectr. (Mineral)*  
Gooderson, R N, MA, *Tutor, U Lectr. (Law)*  
Caesar, A. A. L., MA, *Tutor, U. Lectr. (Geog.)*  
Lacey, W K, MA, *U. Lectr. (Classics)*  
Cunliffe, R S, MA PhD, *Prælector, U Lectr. (Vet. Physiol.)*

MacDonagh, O O. G. M., MA PhD, *U. Asst Lectr. (Hist)*  
Topasfield, L T, MA PhD, *Domestic Bursar, U. Lectr. (Principal & French)*  
Robinson, P D, MA, *Dean, U Lectr (Engn)*  
Le Huray, P. G., MA PhD MusB, *U Asst Lectr. (Music)*  
Maddock, A G., PhD Lond, ScD, *Reader (Radiochem)*  
Murphy, T. G., MA PhD, *Res. Fellow (Maths)*  
Shakeshaft, J R., MA PhD, *Librarian, U. Dean. (Phys)*  
Message, M. A., MA MB BCh, *U. Dean (Anat)*  
Smith, D S, MA PhD, *Res. Fellow (Zool)*  
Gregory, R W, MA, *U Lectr (Engn)*

## ST. JOHN'S COLLEGE

Founded in 1511 by the Lady Margaret, Countess of Richmond and Derby and mother of King Henry VII, in place of the Hospital of St John, founded about 1135. The foundress died before her designs were completed, and sufficient funds were only obtained by the exertions and beneficence of her executor, John Fisher, Bishop of Rochester and Chancellor of the University. Junior members in residence (1961-62): BAs and Research Students, 147; undergraduates, 582. Telephone: Cambridge 58741

Master—Rev. J S. Boys Smith, MA

## Fellows

Cunningham, E., MA  
Jeffreys, Sir Harold, DSc Durh., MA, FRS  
Palmer, W G., DSc Lond., ScD  
Bartlett, Sir Frederic C, CBE, Hon DSc Oxon., MA, FRS  
Engelwood, Sir Frank L., CMG, MA, FRS  
Whose, F F, MA  
Briggs, G. E., DSc Lond., MA, FRS, *President*  
Guillebaud, C W., CBE, MA  
Dirac, P. A. M., BSc Brist., PhD, FRS, *Lucasian Prof. (Maths.)*  
Howland, R. L., MA, *Sr Tutor, U. Lectr. (Classics)*  
Bailey, S J, LL.D., *Rouse Ball Prof. (Engl. Law)*  
Hollick, F S. J., MA PhD, *U. Lectr. (Zool.)*  
Davies, H. S., MA, *U Lectr. (Engl.)*  
Walker, E. A., MA Oxon., *Cope & Camb*  
Harris, H. A., DSc MD Lond., MA  
Strathairn, F, BA PhD, *Reader (Maths)*  
Jopson, N. B., MA  
Evans, G. C., MA PhD, *Bldgs Bursar, U Lectr. (Bot)*  
Daniel, G E., LittD, *U. Lectr. (Archæol.)*  
Hoyle, F, MA, FRS, *Flammar Prof (Astron. & Exper. Philos)*

Miller, E., MA, *U. Lectr. (Hist.), Warden of Madingley Hall*  
Rhodes, H. G., MA, *Reader (Engn.)*  
Scott, K, MA LLB, *U. Lectr. (Law)*  
Mitchell, J. S., CBE, Hon. DSc Burs., MD, FRS, FFR, MRCP, *Regius Prof (Physic)*  
Hinsley, F H., MA, *Tutor, U. Lectr. (Hist.)*  
Lee, A G., MA, *Librarian, U Lectr. (Classics)*  
Bertram, G. C. L., MA PhD, *Tutor*  
Mordoll, L. J., MSc Manc., MA, FRS  
Jackson, R. M., LL.D., *Reader (Pub. Law & Admin.)*  
Redman, R. O., MA PhD, FRS, *Prof. (Astrophys.)*  
Budden, K. G., MA PhD, *U. Lectr. (Phys.)*  
Brookes, A. M. P., MA, *U. Lectr. (Biog.)*  
Farmer, B. H., MA, *U. Lectr. (Geog.)*  
Gale, E P., ScD, FRS, *Prof. (Chem. Microbiol.)*  
Lytlington, R. A., MA PhD, FRS, *Reader (Theoret. Astron.)*  
Wilkes, M. V., MA PhD, FRS, *Dir. of Mathl. Lab.*  
Ratcliff, Rev. E C., MA Oxon. & Camb., *Regius Prof (Div.)*  
Bunbrough, J R, MA, *Tutor, U Lectr. (Classics)*  
Matthews, R. C. O., MA Oxon. & Camb., *U. Lectr. (Econ.)*  
Ciolek, J A, MA, *Tutor, U Lectr. (Classics)*  
Bruford, W H, Hon. LL.D. Abod., MA

- Bossart, Rev J. S., MA Oxon., BD Oxon. & Camb., Dean, U. Lectr. (Div.)  
 Hanley, F., MA, Reader (Crop Husbandry)  
 Robinson, R. E., MA PhD, Tutor, U. Lectr. (Hist.)  
 Kipping, F. B., MA PhD, U. Lectr. (Org. & Inorg. Chem.)  
 Mansergh, P. N. S., OBE, BLitt MA DPhil Oxon., PhD, Senior Prof (Hist. of British Commonwealth)  
 Campbell, F. W., PhD MB ChB Glas., MA, U. Lectr. (Physiol.)  
 Stern, J. P., MA PhD, U. Lectr. (German)  
 Hall, J. C., MA LLB, Tutor, U. Lectr. (Law)  
 James, E. D., MA PhD, U. Lectr. (French)  
 Guest, G. H., MA MusB, Organist, U. Lectr. (Music)  
 Wellford, Rev A. T., MA, Tutor, U. Lectr. (Exptl. Psychol.)  
 Hutchinson, Sir Joseph B., CMG, ScD, FRS, Drapers Prof. (Agris)  
 Mestel, L., BA PhD, U. Lectr. (Appl. Maths)  
 Barrère, J. B. M., DScL Paris, MA, Prof. (French Lit.)  
 Selberson, Z. A., MA, U. Lectr. (Econ.)  
 Hinde, R. A., MA DPhil Oxon., ScD, Tutor, Asst Dir. of Res. (Zool.)  
 Miller, J. W., MD DSc Belf., MA, Professor, Reader (Anat.)  
 Davies, J. G. W., MA, Sec., Univ. Appr. Bd., Pre-Pract.  
 Henry, N. F. M., MA BSc Aber., PhD, Steward, U. Lectr. (Mineral & Petrol.)  
 Smith, C. L., MBE, MA PhD, Asst. Dir. of Res. (Radiotherapeutic)  
 Nicholls, P., BA PhD  
 Whitmore, T. C., MA PhD  
 Cowley, M. D., BA PhD, St. Asst. in Res. (Engn.)  
 Thomas, T. C., MA LLB, Sr. Bursar  
 Pascoe, K. J., MA, U. Lectr. (Engn.)  
 Neeld, D. H., PhD Lond., MA, U. Lectr. (Biochem.)  
 Prince, R. H., PhD Lond., MA, U. Deser. (Chem.)  
 Lockwood, D., BSc (Econ) PhD Lond., MA, U. Lectr. (Econ.)  
 Goody, J. R., MA PhD, U. Lectr. (Anthropol.)  
 Smith, C. T., MA, U. Lectr. (Geog.)  
 Watson, G. G., MA Oxon. & Camb., U. Asst. Lectr. (Engl.)  
 Nuttall, J., MA  
 Wood, M. G., MA PhD  
 Vata-Finzi, C., MA PhD  
 Landshoff, P. V., BA  
 Newell, R. W., BA Virginia  
 Ranton, J. D., PhD  
 Deer, W. A., MSc Manc., PhD, FRS, Prof. (Mineral & Petrol.)  
 Ringrose, J. R., BSc Lond., MA PhD, U. Lectr. (Maths)  
 Griffin, R. F., BA PhD  
 Willoughby, D. A., PhD  
 Ayers, M. R., BA  
 Cann, J. R., BA  
 Barroclough, G., MA Oxon. & Camb.  
 Franklin, J. H., AM PhD Harv., Pitt Prof. (American Hist.)  
 Brownlie, A. D., MCom NZ  
 Harris, H. S. L., MA, U. Lectr. (Engn.)  
 Cooper, M. G., MA, U. Lectr. (Engn.)  
 Crook, A. C., MA, Chief Architect, U. Estate Management Advisory Service

## SELWYN COLLEGE

Founded in 1882 in memory of George Augustus Selwyn, Bishop of New Zealand (1841-67) and Litchfield (1868-78), to provide a university education for young men in accordance with the principles of the Church of England. Junior members in residence (1961-62): BAs and Research Students, 33, undergraduates, 298. Telephone: Cambridge 50407

Master—Rev W. O. Chadwick, Hon. DD St And., DD, FBA, Drex Prof. of Eccles. Hist

- Fellows  
 Williams, W. N., MA LLB  
 Porrett, G. B., MA  
 Durrant, P. J., MA PhD, Vice-Master, Sr. Tutor  
 Searson, W. J., Hon LL.D. Pacific, MA, Sec. General of the Fac.  
 Chao, Rt. Rev. G. A., MC, MA Hon DD  
 St. Joseph, J. K. S., MA PhD, FSA, Dir. in Aerial Photography  
 Spear, T. G. P., OBE, MA PhD, Bursar & Steward  
 Cott, H. B., DSc Glas., ScD, U. Lectr. (Zool.)  
 Brock, W. R., MA PhD, Tutor for Advanced Students, U. Lectr. (American Hist.)  
 Telfer, Rev. W., MC, DD  
 Forster, L. W., DPhil Basle, MA, Schöler Prof. (German)  
 Winay, J., MA, Librarian, U. Asst. Lectr. (Engl.)  
 Nicholson, H. H., MBE, MA  
 Melville, P. C., MA Oxon. & Camb., Dep. Registry  
 Welbourn, D. B., MA, MIBeckE, U. Lectr. (Engn.)  
 Hardy, Rev. D. P., MA, Tutor for admissions  
 Harrison, D., MA PhD, FRIC, Asst. Tutor, Professor, U. Lectr. (Chem. Engn.)  
 Plumley, Rev. J. M., BA MLitt Durk., MA, H Thompson Prof. (Egyptol.)  
 Smart, Rev. J. P. M., MA Oxon. & Camb., Chaplain  
 Ford, E. H. R., MD, U. Lectr. (Anat.)  
 Johnson, R. P., MA, U. Lectr. (Engn.)  
 Porter, H. C., MA PhD, FRHistS, Asst. Tutor, U. Asst. Lectr. (Hist.)  
 Griffiths, R. M., MA PhD, Dean  
 Watts-Tobin, R. J., MA PhD  
 MacKay, Rev. B. S., MA, Precentor, Asst. Tutor  
 Trunn, J. L. M., MA, U. Lectr. (Phonetics)  
 Norman, E. R., BA  
 Muir, I. D., BA PhD, U. Lectr. (Mineral)

## SIDNEY SUSSEX COLLEGE

Founded in 1596 under the will of the Lady Frances Sidney, Countess Dowager of Sussex, by virtue of a charter granted by Queen Elizabeth in 1594 to Henry, Earl of Kent, and Sir John Harrington, his executors. Junior members in residence (1961-62): BAs and Research Students, 42, undergraduates, 217. Telephone: Cambridge 50427

Master—D. Thomson, MA PhD, U. Lectr. (Hist.)

## Fellows

Knox-Shaw, T., CBE, MC, MA  
 Smith, Rev. B. T. D., DD  
 Davenport, A. H., MC, MA  
 Green, H. L. H. H., MD, U. Lectr. (Anat.)  
 Robinson, E. A. G., CMG, OBE, MA, FBA,  
 Prof. (Econ.)  
 Angus, R. H., MA, Bursar, U. Lectr. (Engin.)  
 McCance, R. A., CBE, MD, FRCP, FRS, Prof.  
 (Exper. Med.)  
 Bulman, O. M. B., PhD Lond., ScD, FRS, FGS,  
 Vice-Master, Woodwardian Prof. (Geol.)  
 Emeleus, H. J., CBE, DSc Lond., MA, FRS, Prof.  
 (Inorg. Chem.)  
 Small, R. C., MBE, MA PhD, Coll. Librarian,  
 U. Lectr. (Hist.)  
 Thornely, J. W. A., MA, Tutor, U. Lectr. (Law)  
 Agar, J. N., MA PhD, U. Lectr. (Phys. Chem.)  
 Roy, A. D., MA, U. Lectr. (Econ.)  
 Clammow, P. C., MA PhD, U. Lectr. (Theoret.  
 Electrodynamics & Radio)  
 Wilcock, M. M., MA, Tutor, U. Asst Lectr.  
 (Classics)

Switzer, J. F. Q., MA, Sr. Bursar, U. Lectr.  
 (Estate Management)  
 Beales, D. E. D., MA PhD, Tutor, Dean, U.  
 Asst Lectr. (Hist.)  
 Corner, E. J. H., MA, FRS, Reader (Plant  
 Taxon.)  
 Vickers, T., MA PhD, Steward, U. Lectr.  
 (Phycol.)  
 Charlton, T. M., BSc Lond., MA, Asst Tutor,  
 Taylor Librarian, U. Lectr. (Engin.)  
 Salway, P., MA PhD, FSA, Dean & Prefector  
 Wyatt, T. S., MA MLitt  
 Manchester, K. L., MA PhD  
 Spencer, M. C., MA  
 Scott, P. F., MA PhD  
 Hutchison, H. P., MA Oxon & Camb., U. Lectr.  
 (Chew. Engin.)  
 Carpenter, K. J., MA PhD, U. Lectr. (Agric.)  
 Chorley, R. J., MA Oxon & Camb., U. Lectr.  
 (Geog.)

## TRINITY COLLEGE

Founded in 1546 by King Henry VIII by the consolidation and extension of Michaelhouse, founded in 1324, and King's Hall, founded in 1337. Junior members in residence (1961-62): BAs and Research Students, 159; undergraduates, 714. Telephone: Cambridge 52201.

Master—The Rt. Hon. Lord Adrian, OM, Hon. DSc Penn., Oxon, Harv., Lyons, Lond., Manc., Durh., Johns H., Belg., Wales, N.Y., Sheff., Hull, Brazil, Bologna, Paris, Paris & Leic., Hon. LLD McGill, St And., Glas., Liv., Dal. & Edin., Hon. MD Brussels, Leuven & Mont., MD, FRS, FRCP

## Fellows

Littlewood, J. E., Hon. LLD St. And., Hon. DSc  
 Lie., MA, FRS  
 Holland, H. A., DSO, OBE, MA LL.M.  
 Robertson, D. S., Hon. DLitt Durh., Hon. LLD  
 Glas., Hon. DPhil Athens, MA, FBA  
 Simpson, Rev. F. A., MA  
 Butler, Sir James R. M., MVO, OBE, MA  
 Burnaby, Rev. J., BD  
 Taylor, Sir Geoffrey I., MC, DSc Oxon., MA  
 Hon. ScD, FRS  
 Nicholas, T. C., OBE, MC, MA  
 Kison Clark, G. S. R., Hon. DLitt Durh., LittD,  
 Reader (Constitutional Hist.)  
 Broad, C. D., LittD, FBA  
 Roughton, F. J. W., MA PhD, FRS, J. H. Plummer  
 Prof. (Colloid Sci.)  
 Denn, W. R., MA  
 Cow, A. S. F., MA, FBA  
 Duff, P. W., MA, Vice-Master, Regius Prof. (Civ. Law)  
 Rattenbury, R. M., MA, U. Registry  
 Sandbach, F. H., MA, U. Lectr. & Brereton  
 Reader (Classics)  
 Pantin, C. F. A., Hon. DSc Durh., ScD, FRS,  
 Prof. (Zool.)

Evennett, H. O., MA, U. Lectr. (Hist.)  
 Knight, A. H. J., MA, Reader (German)  
 Beaucovich, A. S., DSc Lond., MA, FRS  
 Mann, F. G., DSc Lond., ScD, FRS, FRIC,  
 Reader (Org. Chem.)  
 Black, M., MA, U. Lectr. (Geol.)  
 Hamson, C. J., MA LL.M., Prof. (Compar. Law)  
 Wisdom, A. J. T. D., MA, Prof. (Philos.)  
 Hodgkin, A. L., MA ScD, FRS, Royal Society  
 Prof.  
 Bragg, Sir W. Lawrence, MC, OBE, Hon. ScD  
 Durh., Hon. DSc Leeds, Manc., Lisbon, Paris,  
 Brussels, Liège & Durh., PhD Cologne, Hon.  
 LLD St. And., MA, FRS, FIP  
 Rushton, W. A. H., ScD, FRS, Reader (Physiol.)  
 Vyvyan, J. M. K., MA, Tutor  
 Straff, P., MA, Asst Dir. of Res. (Econ.)  
 Pryor, M. G. M., MA PhD, Sr. Tutor, U. Lectr.  
 (Zool.)  
 Russell, Esrl, OM, MA, FRS, FBA  
 Robertson, Sir Dennis H., CMG, Hon. DComen  
 Anst., Hon. LittD Harv., Durh. & Manc.,  
 Hon. DEcon Louvain, Hon. DSc Econ Lond.,  
 Hon. DHL Cw., MA, FBA  
 Binnie, A. M., MA, FRS, Reader (Engin.)

- Hammer, L. C., *Lésl. Boudoux*, MA PhD,  
*Drapers Prof. (French)*
- Ashmead, J., MA PhD, *U. Lectr. (Phys.)*
- Outley, C. W., MA, *Prof. (Electr. Engin.)*
- Winter, C., MA, *Dir., Fitzwilliam Museum*
- Fox, E. N., ScD, *Reader (Engin.)*
- Browne, B. C., MA, *Reader (Exper. Geophys.)*
- Bradfield, J. R. G., MA PhD, *Sr. Bursar, Sec. of Council*
- Frisch, O. R., OBE, DSc DPhil Vienna, MA,  
*FRS, Jachmann Prof. (Nat. Philol.)*
- Bailey, K., ScD, FRS, *Reader (Biochem.)*
- Dobb, M. H., MA, *Reader (Econ.)*
- Gallagher, J., MA, *Dean, U. Lectr. (Colonial Studies)*
- Radziewicz, L., LL.D., *Wolfson Prof. (Crimin.)*,  
*Dir. of Inst. of Criminal*
- Cassels, J. W. S., MA Edu., PhD, *U. Lectr. (Maths)*
- Green, D. H., MA, *Professor, U. Lectr. (German)*
- Ryle, M., MA, FRS, *Prof. (Radio Astron.)*
- Nockolds, B. R., BSc Mus., PhD, FRS, *Reader (Greench.)*
- Redpath, R. T. H., MA PhD, *Tutor, U. Lectr. (Engl.)*
- Hawthorne, W. R., CBE, MA, FRS, FRAES,  
*Milne-Edwards, Hapkinson & I.C.I. Prof. (Appl. Thermodyn.)*
- Williams, Rev. H. A., MA, *Tutor, Dean of Chapel*
- Oates, E. E. D. M., MA
- Batchelor, G. K., MSc Mech., PhD, FRS, *Reader (Fluid Dynamics)*
- Leigh, R. A., BA Lond., MA, *U. Lectr. (French)*
- Jolowicz, J. A., MA, *U. Lectr. (Law)*
- Ker, A., MA Oxon. & Camb., *Tutor, U. Lectr. (Classics)*
- Lealott, T. P. R., MA, *U. Lectr. (Hist.)*
- Lauterpacht, E., MA LLB, *U. Lectr. (Law)*
- Elliott, J. H., MA PhD, *U. Lectr. (Hist.)*
- Folkinghouse, J. C., MA PhD, *U. Lectr. (Appl. Maths.)*
- Swinnerton-Dyer, H. P. F., MA, *U. Lectr. (Math. Lib.)*
- Lassmann, H. W., MA Hamburg & Camb., FRS,  
*U. Lectr. (Zool.)*
- Sheppard, N., MA PhD, *Asst. Dir. of Res. (Spectroscopy)*
- Carr, E. H., CBE, MA, FBA
- Allen, W. S., MA PhD, *Prof. (Compar. Philol.)*
- Squires, G. L., MA PhD, *U. Lectr. (Phys.)*
- Robson, R., MA PhD, *Tutor for Advanced Students*
- Glauert, R. H., MA PhD, *Jr. Bursar*
- Davidson, J. F., MA PhD, *Steward, U. Lectr. (Chem. Engin.)*
- Dadswell, C. R., MA PhD, *Librarian*
- Proudman, I., BSc Lav., PhD, *U. Lectr. (Appl. Maths.)*
- Leppard, R. J., MA, *Dir. of Mus., U. Lectr. (Mus.)*
- Lockwood, A. P. M., MA PhD
- Wilks, M. J., MA PhD
- Sen, A. K., MA PhD, *U. Asst. Lectr. (Econ.)*
- Shercliff, J. A., MA PhD, *U. Lectr. (Engin.)*
- Easterling, H. J., MA
- Davenport, H., MA Macc., ScD, FRS, *Rouse Ball Prof. (Maths.)*
- Sander, K. F., BSc Lond., MA PhD, *U. Lectr. (Engin.)*
- Chומר, G. A., PhD, *U. Deur. (Musical & Petrol.)*
- McLachlan, A. D., MA PhD
- Howells, I. D., PhD
- Ullmann, W., *Jud. Vienna & Innsbruck, Litt.D., Reader (Medic. & Pharmaceutical Inst.)*
- Lewy, C., MA PhD, *Slipwich Lectr. (Moral Sci.)*
- Champernowne, D. G., MA Oxon. & Camb.,  
*Reader (Econ.)*
- Marsden, D. H., MSc, Macc., PhD, *Asst. Dir. of Res. (Radiotherapeutics)*
- Fannell, B. M., MA PhD
- Wall, C. T. C., BA PhD, *U. Lectr. (Maths.)*
- Glynn, I. M., MA PhD MB BChir, *U. Lectr. (Physiol.)*
- Hunter, C., BA PhD
- Bretherton, F. P., BA
- Cornford, J. P., BA
- Jones, W. J., PhD
- Runciman, Hon. W. G., BA
- Goldstone, J., MA PhD, *U. Lectr. (Appl. Maths.)*
- Moffatt, H. K., BA, *U. Asst. Lectr. (Appl. Maths.)*
- Jones, G. H., LL.M. Harv., MA LLB, *U. Asst. Lectr. (Law)*
- Brindley, G. S., MD, *U. Lectr. (Physiol.)*
- Johnson, P., ScD, *U. Lectr. (Calif. Sci.)*
- Owen, A. R. G., MA PhD, *U. Lectr. (Geophys.)*
- Grisson, C. W. B., MA PhD, *U. Lectr. (Engin.)*
- Selinger, L. G., MA, *U. Lectr. (Engl.)*
- Merton, F. A., MA MB BChir, *U. Lectr. (Physiol.)*

## TRINITY HALL

Founded in 1350 by William Bateman, Bishop of Norwich, and especially designed by him for the study of law. This has been recognized by the establishment of law lectureships, law studentships, open scholarships for intending students of law, and foundation scholarships, but members of the college are not restricted to any particular subject of study, and a normal balance of numbers is maintained among all the usual subjects. Junior members in residence (1961-62): BAs and Research Students, 61; undergraduates, 289. *Telephones:* Cambridge 59447.

*Master*—Sir W. Ivor Jennings, KBE, QC, LL.D. Lond., Hon. LL.D. Brit., *S'row., Ceyl., Leach, Belf. & H.K.*, Hon. DUPans, Litt.D, FBA, *Vice-Chancellor*

*Fellows*  
Crawley, C. W., MA, *Vice-Master, U. Lectr. (Hist.)*

Turner, J. W. C., MC, MA LLB  
Ellis Lewis, T., BA LLB Wales, PhD, *U. Lectr. (Law)*

Young, F. G., PhD DSc *Lond.*, Hon. DU  
*Montpellier*, MA, FRSc, FRIC, *Sir W Dunn*  
*Prof (Biochem)*  
 Storey, G. MA, *Tutor*  
 Kirk, G. S., DSc, MA, FBA, *Reader (Greek)*  
 Crutchley, B., CBE, MA, *Univ Printer*  
 Cochran, W., PhD *Edin.*, MA, FRSc, *Reader*  
*(Phys)*  
 Frank, E. K., MA, *Asst Tutor, U. Lectr (Engin)*  
 Rendle, P. J., MA PhD MB BChir, *U. Lectr*  
*(Biochem)*  
 Brand, C. P., MA PhD, *Asst. Tutor, U. Lectr.*  
*(Italian)*  
 Purnell, J. H., PhD *Wales & Camb.*, MA, *U*  
*Lectr. (Phys. Chem.)*  
 Abbott, S. E., OBE, MA, *Bursar & Steward*  
 Bradley, A. W., MA LLB, *Librarian, U. Asst.*  
*Lectr (Law)*

Jamieson, G. A., BA, *Res. Fellow*  
 Mann, T. R. R., CBE, ScD, FRSc, *Reader*  
*(Physiol. of Animal Reproduction)*  
 Nurses, Rev. J. S., BD *Harv.*, MA PhD, *Dean &*  
*Professor*  
 Laudlaw, J. C., BA, *Res. Fellow*  
 Johnson, D. C., MA, MIMechE, *Prof. (Mech-*  
*anism)*  
 Grundy, H. P., MA MB BChir, *U. Lectr*  
*(Pharmacol.)*  
 Pearson, J. R. A., MA PhD, *Asst. Dir. of Res*  
*(Chem. Engin.)*  
 Fallside, F., BSc *Edin.*, PhD *Wales*, MA *Wales &*  
*Camb.*, *U. Lectr. (Engin.)*  
 Faurest, P. B., BA LLB, *Res. Fellow*  
 Cowley, R. A., BA, *Res. Fellow*

### Women's Colleges

#### GIRTON COLLEGE

Founded in 1869, and obtained a royal charter in 1924. Junior members in residence (1961-62).  
 BAs and Research Students, 42, undergraduates, 307. Telephone, Cambridge 76219.

Mistress—Mary L. Cartwright, DPhil *Oxon.*, Hon. LLD *Edin.*, Hon. DSc *Leeds, Hull & Wales*,  
 ScD, FRSc, *Reader (Theory of Functions)*

#### Fellows

Cave-Browne-Cave, Frances E., MA  
 Clover, Mary, MA  
 Holland, Mrs. Marjorie, PhD *Col.*, MA, *Bursar,*  
*U. Lectr. (Econ.)*  
 Cam, Helen M., Hon. LLD *Snash.*, Hon. MA  
*Harv.*, MA *Lond.*, LittD, FBA, FRHistS  
 Bibas, Henriette, MA  
 McMorran, Helen L., MA, FLA, *Registrar of the*  
*Roll*  
 Lloyd Thomas, M. Gwyneth, BLitt *Oxon.*, MA  
 Bishop, Ann, DSc *Manch.*, ScD, FRSc, *Res. Fellow*  
 Peace, Kathleen M., MA, *Sec.*  
 Bradbrook, Muriel C., LittD, *Vice-Mistress,*  
*Reader (Engl.)*  
 Jeffreys, Lady, MA PhD  
 Megaw, Helen D., MA PhD, *U. Lectr. (Phys.)*  
 Fairlie, Alison A. B., MA DPhil *Oxon.*, PhD, *U*  
*Lectr. (French)*  
 Duke, Alison, MA, *Tutor & Professor, U. Lectr.*  
*(Classics)*  
 Hill, Elizabeth M., PhD *Lond.*, MA, *Prof.*  
*(Slavonic Studies)*  
 de Mourgues, Mrs. Odette M. H. L., LdsL  
*Aix-Marseille*, PhD, *U. Lectr. (French)*  
 Willey, Florence J. L., MA, Jr. *Bursar & Clerk of*  
*Accounts*  
 Gibbs, Sheila M., BA *Lond.*, MA, *Tutor &*  
*Steward*  
 Bennett, Mrs. Joan, MA, *U. Lectr. (Engl.)*  
 Chibnall, Mrs. Maryjane M., MA DPhil *Oxon.*,  
 PhD

Harker, Janet E., MSc *Syst.*, PhD *Manch.*, MA, *U.*  
*Deur. (Zool.)*  
 Grant, Mrs. Helen F., MA *Oxon.* & *Camb.*, *U.*  
*Lectr. (Spanish)*  
 Fell, Honor B., DSc *Edin.*, MA, FRSc  
 Padley, Mrs. Elizabeth M., MA PhD, *Res. Fellow*  
 MacRobbie, Enid A. C., PhD *Edin.*, MA, *U*  
*Deur. (Bot.)*  
 Robinson, Mrs. Judith O., DUPaw, MA, *Res.*  
*Fellow*  
 Kelsey, Christine H., MA PhD, *Res. Fellow, U*  
*Deur. (Mineral & Petrol)*  
 Radziewicz, Mrs. Mary A., PhD *Col.*, MA, *Res.*  
*Fellow*  
 Vogt, Martha L., DrMed DrPhil *Berl.*, PhD,  
 FRSc  
 Grove, Mrs. Joan M., MA PhD  
 Ragher, Mrs. Bobbyann, BA *Bryn Mawr*, PhD,  
*U. Asst. Lectr. (Engl.)*  
 Roper, Margaret, BLitt *Oxon.*, MA *Oxon.* &  
*Camb.*, *Res. Fellow*  
 Markwick, Mrs. Amy T., MA *Aberd. & Camb.*,  
 PhD, *Tutor*  
 Wall, Rachel F., BA *Manch.*  
 Griffin, Mrs. Beverly E. S., MS *Virginia*, PhD,  
*Res. Fellow*  
 Hastree, Mrs. Anne S., PhD *Utah*, *Res. Fellow*  
 Borucka, Aline, PhD *Lond.*, *Res. Fellow*  
 Ives, Margaret C., BA *Lond.*, *Res. Fellow*

## NEWNHAM COLLEGE

Founded in 1871 and obtained a royal charter in 1917. Junior members in residence (1961-62).  
BAs and Research Students, 57; undergraduates, 284. Telephone: Cambridge 52478

Principal—Ruth L. Cohen, MA, U. Lect. (Econ.)

## FELLOWS

Gemshaw, Margaret E., MA, *Bursar, U. Lectr*  
(*Maths.*)  
Mitchell, Jean B., MA, U. Lectr. (*Geog.*)  
Agar, Mrs. Delia M., MA PhD  
Edmonds, Sheila M., MA PhD, *Vice-Principal*  
Morris, Irene V., MA Belf. & Camb., *Tutor*  
Burne, Patricia, MA Lond. & Camb., *Tutor*,  
*Librarian*  
Reynolds, Joyce M., MA Oxon. & Camb., U. Lectr  
(*Classics*)  
Whitham, Edith H., MA, *Gibbey Lectr* (*Hist. &*  
*Econ. of Agric.*)  
Hughes, Kathleen W., PhD Lond., MA Lond. &  
Camb., U. Lectr. (*Anglo-Saxon*)  
Whitelock, Dorothy, MA Oxon., LittD, FBA,  
FSA, FRHistS, *Elrington & Bancroft Prof.*  
(*Anglo-Saxon*)  
Cook, Pauline L., MA PhD, *Tutor, Res. Officer*  
(*Appl. Econ.*)

Richards, Audrey I., CBE, PhD Lond., MA Lond.  
& Camb., *Seneca Reader* (*Anthropol.*)  
Bailey, Anna I., MSc Rand, MA PhD  
Cane, Violet R., MA, U. Lectr. (*Maths.*)  
Newton, Mrs. Alison A., MA PhD, U. Dean  
(*Biotech.*)  
Basterling, Mrs. Patricia E., MA, *Prælector*  
Norton, Jane E., MA  
Everett, Barbara M., MA Oxon. & Camb.  
Gooder, Mrs. Jean M., MA  
Robson, Elaine A., MA PhD, *Asst. in Res.* (*Zool.*)  
Duncan-Jones, Mrs. Elsie E., MA  
Stamier, Margaret W., MA DPhil Oxon., PhD  
Harry, Rhannon E., MA Wales & Camb.  
Aves, Geraldine M., OBE, MA  
Robinson, Miss Joan V., MA, *Reader* (*Econ.*)  
Denne, Phyllis M., MA, U. Lectr. (*Econ.*)

## HUGHES HALL

Founded in 1885 for the training of women intending to follow the profession of teaching, it became a 'recognised institution of the univ.' in 1949. It accepts only graduates following the course in the univ. Dept. of Educn. Students in residence (1961-62), 70. Telephone: Cambridge 52856.

Principal—Margaret A. Wileman, MA Oxon. & Camb., U. Lectr. (*Educn.*), *Dir. of Women Students*  
*in Dept. of Educn.*; Tutor—Mrs. Margaret F. S. Bottell, MA Oxon. & Camb., *Deputy Lectr*  
(*Educn.*)

## NEW HALL

Established in 1934 by the Association to Promote a Third Foundation for Women in the Univ. of Cambridge. It is a 'recognised institution of the univ.' Junior members in residence (1960-61), 80. Telephone: Cambridge 52707.

Murray, A. Rosemary, JP, DPhil Oxon., MA  
Oxon. & Camb., *Tutor*  
Hammond, Hope, MA PhD, *Lectr. in Engl.*  
Clove, Mrs. Violet H., MA PhD, *Asst. Lectr. in*  
*Hist.*  
Rawson, Elizabeth D., MA Oxon. & Camb.,  
*Leventhorpe Res. Fellow*

Coleman, Mrs. Dorothy, PhD Glas., MA, *Lectr*  
*in Mod. Langs., U. Asst. Lectr.* (*French*)  
Lynden-Bell, Mrs. Ruth, BA, *Lectr. in Nat. Sci.*  
Wanter, Sheila, *Steward*

## GENERAL INFORMATION

The univ. received formal recognition as a *studium generale* from Pope John XXII in 1318, but it was well established by that time and had already been given important privileges by King Henry III. Its origins probably date from 1200 when, following disturbances at Oxford, a no. of scholars migrated to Cambridge. The first coll., Peterhouse, was founded by Hugo de Balsham, Bishop of Ely, in 1284, and was followed by most of the others in the next 3 centuries.

In the period from the foundation of King's Coll. (1441) to the foundation of Trinity Coll. (1566) the univ. expanded considerably, and achieved a European reputation. The high-water mark was perhaps reached during the chancellorship of John Fisher (1504-35), who introduced Erasmus to Cambridge. The Reformation, and in particular the dissolution of the monasteries, had a disturbing influence, and ushered in a series of constitutional changes, the chief result of



which was to give the colls a more important place in the constitution of the univ. The constitution of the univ. was stabilized when it received a new code of statutes from Queen Elizabeth in 1570, and was incorporated by act of parliament in 1571. Under the new statutes, which remained in force for nearly 300 years, all students had to be members of colls., and the govt. of the univ. was largely in the hands of the heads of colls.

There were few major devels. in the 17th or 18th cents. No new colls were founded between 1536 (Sidney Sussex) and 1800 (Downing). The decline in the no. of students which was brought about by the civil war was temporarily checked by the Restoration, but in the next 100 yrs the average no. of students matriculating each yr fell by two-thirds. But a no. of professorships were founded, and under the influence of Sir Isaac Newton, who was Lucasian prof of maths for 33 yrs., maths became the main subj. of study, from 1750 onwards it was compulsory.

By the end of the 18th cent. written exams had taken the place of the earlier 'disputations'. Most of the official teaching was done in colls but undergrads who wished to do well in the tripos exams were resorting more and more to private tutors. There were a few endowed univ. professorships and univ. lectureships, but the trust deeds governing them were often out of date, and the stipends attached to the posts very low. The Elizabethan statutes were so far unrelated to the conditions of the time that many were ignored.

Changes were urgently required, and the univ. did not escape the reforming agitation of the 19th cent. Its affairs were investigated by royal commissions in 1850 and 1872, and the univ. statutes were subsequently revised by statutory commissions. The classical tripos was introduced in 1824, and, after the maths. tripos had ceased to be compulsory in 1850, the range of subjs. of study was steadily widened. In 1856 nonconformists were allowed to graduate; in 1858 the local exams (for schools) were instituted; in 1869 the first women's coll., Girton, was founded (though women were not admitted to full membership of the univ. until 1948); in 1871 all religious tests were abolished by the Universities Tests Act, and in the same yr. the Cavendish phys. lab. was established; in 1872 the bd. of extramural studies was instituted to organize univ. extension lectures. During the cent. the average annual total of admissions increased by nearly 6 times.

In the early yrs. of the present cent. the univ. was in serious financial difficulties, which were aggravated by the war of 1914-18. The univ. received a Treasury grant in 1919 on the condition that there should be an enquiry into its resources and orgn. A royal commission apptd in 1920 recommended that the univ. (but not the colls.) should receive an annual Treasury grant, and should be reorganized so as to take over some of the teaching previously done by colls. In conse-

quence the statutes were again revised, the facs. reorganized, and many more univ. lectrs. apptd. Thenceforward all lectures and other public teaching were organized by the univ., and the colls. retained responsibility only for managing the individual teaching of their students by coll. supervisors. The system of coll. supervision had developed from about 1900 and by the 1920s had superseded the private tutors of the previous cent.

Since the royal commission reported in 1922 the no. of undergrads has increased by half to about 7500; the no. of res. students has increased from about 150 to over 1000; new courses for degrees, dipls. and certs. have been establd. and new subjs. introduced into the old courses. In recent yrs. a new foundations have been establd.: New Hall, for women, and Churchill Coll., for men.

The city of Cambridge (pop. 95,000) lies on the river Cam, or Granta, 51 miles N. of London, and is the county town of Cambridgeshire. Before the univ. was establd., the borough was already an important admin. and trading centre, and the site had been occupied since Roman times.

**CONSTITUTION.** The univ. is a self-governing body; the legislative authority is the *regent house*, which consists of those members of the teaching and admin. staff of the univ. and colls. who have the MA or a higher degree. The senate, which consists of all the holders of the MA or higher degrees, has the right of voting on certain formal matters. The chief admin. body of the univ. is the *council of the senate*, which is elected by the regent house. The *general board of the faculties* co-ordinates the educn. policy of the univ. and the *financial board* supervises its financial affairs.

The nominal and ceremonial hd. of the univ. is the chancellor, who is elected for life. The vice-chancellor is a head of a coll. who normally holds office for a yr. He presides over *congregations* (meetings of the regent house or the senate) and is chairman of the council of the senate and the more important of the many *boards* and *synods* which manage the affairs of the univ.

Changes in the *ordnances*, or regns. of the univ., are proposed by the bd. or syndicate concerned in the form of reports which, after being approved for publi. by the council of the senate, are publd. in the *Cambridge University Reporter*. Such reports can be criticized by members of the senate at *discussions* which are held once a fortnight in full term. A report may be amended after remarks made in the discussion. Subsequently a *grace*, which is a motion for the approval of its recommendations, is submitted to a vote of the regent house. Minor amendments of ordnances are proposed in *graces* which the council of the senate submit for the approval of the regent house without the formality of report and discussion. Ordnnances may not infringe the *statutes*. Procedure for amendments of statutes is the same, but such amendments require the approval of the Queen in Council, after the approval of the regent house has been obtained.

The COLLEGES are independent self-governing corporate bodies quite distinct from the univ., with their own property and income. Their affairs are regulated by their own statutes, though these cannot be altered without the approval of the univ. and the Queen in Council, and they are also bound by some of the univ. statutes. The governing body of a coll. consists of a *master* (or *provost* or *president*) and a group of *fellows*. Most of the fellows are also members of the staff of the univ.; most of the staff of the univ. are either fellows or members of colls.

There are 19 colls for men and 4 colls. (or similar instns.) for women. In addition there is a collegiate instn. for men, Fitzwilliam House, which is under the direct control of the univ. With the exception of Hughes Hall, which is reserved for women reading for the cert. of educn., all colls accept both undergrad. and postgrad. students in any suby. The colls provide lodgings, corporate life and personal tuition. All students are required to be members of a coll. (or one of certain recog. instns.), all the univ. lectures, labs., libraries, extns., and degrees are open to members of any coll., whether men or women.

The principal coll. officers are the *tutors*, who are responsible for the welfare and discipline of the students assigned to them and advise them about their studies and any other problems that may arise. Each student is also allotted a *supervisor*, who gives him personal tuition, and corrects his written work.

The coll. bldgs. are usually grouped round one or more courts. Each coll. has a hall (in which meals are served), a chapel, a library, and jr. and sr. common-rooms. The rest of the bldgs. are divided into rooms for students and fellows. Because of the increase in the no. of students in recent yrs., only about half are able to live in rooms in their coll. The rest live in lodgings (which must, for undergrads., be recog. by the lodging-houses syndicate), but they continue to have access to all the other facilities of their coll. Usually undergrads. are able to live in coll. for 1 or 2 of the 3 yrs. required for a degree.

DISCIPLINE outside the colls. is maintained by the *proctors*, who are responsible for enforcing the *statutes* of the univ. Proctorial permission is required for such purposes as running a motor vehicle, holding a party for more than 15 persons, or organizing a club or soc. Students are required to have gowns, which must be worn at most lectures, in the univ. library, in the streets after dusk, for dining in hall and for official visits to members of the staff.

The INCOME of the univ. is derived mainly from the Treasury grant, partly from the fees of students, grants for res., endowments and contributions from the colls. which are graduated according to coll. revenues. In 1960-61 the income was £3,117,726 (Treasury recurrent grant, £3,272,385; fees, £461,666; grants for res., £612,267; endowments, £420,270; colls., £138,869; other sources, £230,269).

FACULTIES Teaching and res. are organized in 20 *faculties*, each under the supervision of a *faculty board*. The facs. are: classics, div., Engl., fine arts, mod. & mediev. langs., music, oriental studies, econ. & pol. hist., law, moral sci., engin., geog. & geol., maths., phys. & chem., agric., archaeol. & anthropol., biol. 'A' (comprising bot. & zool.), biol. 'B' (comprising anat., biochem., pathol., etc.), and med. Several of the facs. are further divided into depts., and there are also the following depts. independent of any fac. educn., chem. engin. and the observatories.

There is no UNIVERSITY PRESENT in the usual sense. The colls. and univ. bldgs. are spread out in the centre and to the W. of the city. The main ceremonial bldg. of the univ. is the senate-house, in King's Parade, where congregations of the senate and the regent house are held. Beside it are the univ. church, Great St. Mary's, and the Old Schools, which house the univ. combination room, the registry and other central admin. offices of the univ.

Bldgs. in course of constructn. incl. extensions to the new chem. and engin. labs., and new bldgs. for the arts facs. New bldgs. are also planned for Fitzwilliam House and New Hall and for several of the sci. facs.

The UNIVERSITY LIBRARY (tel. Cambridge 56261) contains about 2,000,000 vols., incl. many early printed books, and over 10,000 MSS. and 350,000 maps. It is entitled under the Copyright Act to a copy of every book published in Gt. Britain & Ireland, and a large no. of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following notable collections: Asian libr. (medieval, eccles. and mod. hist., 60,000 vols.); W. G. Aston's Japanese libr.; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.). Annual budget: about £150,000.

In addition there are over 50 fac., dept. and sp. libs., containing in all about 500,000 books. Among the most important are the Balfour libr. (zool.), the Marshall libr. (econ.), the Seeley memorial libr. (hist.), and the Squire law libr. The Philosophical libr. is the libr. of the Philosophical Soc., but other members of the univ. may consult its books on maths. and the sci.

The colls. have their own libs. for the use of members of the coll. only. In addition to modern text-books for the use of students, most also contain important collections of old books or MSS.; these incl. the Robertson Smith collection of oriental books in Christ's Coll.; the Matthew Parker MSS. in Corpus Christi Coll., 800 MSS., 60 incunabula, heraldic collections of Dr. John Knight (17th cent.) and 1300 books and pamphlets of Dr. Wm. Branthwaite (d. 1619) in Gonville & Caius Coll., the Rowe music libr. and the Keynes libr. (which contains Newton MSS.) in King's Coll.; the Pepys libr. in Magdalene Coll.; the Pems libr. in Peterhouse, and

the Capel collection of Shakespeariana in Trinity Coll.

**MUSEUMS.** *The Fitzwilliam Museum* (Dir.—C. Winstanley, [Tun.], MA), Trumpington St., Cambridge (tel. Cambridge 59023), contains extensive art and archaeol. collections. The chief collections comprise Egyptian, Greek and Roman antiquities, coins and medals, paintings, prints, medallions and med. MSS., ceramics, textiles, medieval and Renaissance objects of art. The collection of paintings incl. examples of the Italian, Flemish, Dutch, French, British and Spanish schools, among which are a no. of masterpieces. The libr. contains about 25,000 vols. incl. 12,000 relating to the arts, a collection of early printed books and the music collection. The museum is open free to the public.

*The Museum of Classical Archaeology* (Curator—Prof. R. M. Cook, [Cln.], MA), Little St. Mary's Lane, Cambridge (tel. Cambridge 52410), contains a collection of casts illustrating the hist. of Greek sculpture.

*The Museum of Archaeology and Ethnology* (Curator—G. H. S. Bushnell, [Down.], MA PhD, Asst. Curator—Mary D. Custer, [Ginton.], MA Oxon & Camb.), Downing St., Cambridge (tel. Cambridge 59714), has a large and increasing collection, incl. Saxon urns and ornaments, casts of central American monuments, Egyptian stone implements, unique Fijian collections and numerous others resulting from scientific expeditions by Cambridge men.

*The Museum of Zoology* (Dir.—F. R. Parrington, [Sid.], ScD, FRSc), Downing St., Cambridge (tel. Cambridge 58717).

*Sedgwick Museum of Geology* (Curator—A. G. Brighton, [Chr.], MA), Downing St., Cambridge (tel. Cambridge 50129).

*Whipple Museum of the History of Science* (Curator—G. Buchdahl, [King's], MA MPhil & Camb.), Downing St., Cambridge (tel. Cambridge 50320).

**LABORATORIES.** The principal labs are: agric., anat., biochem., biol. and parasitol. (Molteno Inst.), bot., chem., chem. engin., colloid sci., engin., ethiol., exper. phys. (Cavendish), genetics, human anat., maths. (for res. on computing machinery), med., metall., mineral & petrol., pathol., phys. chem., physiol., psychol., statistical, vet. sci., zool.

**BOTANICAL GARDEN** (Dir.—J. S. L. Gilmour, [Cln.], MA, FLS), Bateman St., Cambridge (tel. Cambridge 50101).

**OBSERVATORIES** (for staff, see *Astronomy*, p. 943), Madingley Rd., Cambridge (tel. Cambridge 52413), are about a mile from Cambridge and have a 36-in. reflector, a 17-in. Schmidt telescope and a 12-in. horizontal solar telescope with spectrographic equipment. There are a no. of smaller instruments, a well-equipped workshop, a small optical shop and a good libr.

**SCOTT POLAR RESEARCH INSTITUTE** (Dir.—G. de Q. Robn, [Cln.], MSc *Adm.*, PhD *Bure.*, MA), Lensfield Rd., Cambridge (tel. Cambridge 56457), is the most important repository in the Commonwealth of information about arctic and antarctic regions.

**MADINGLEY HALL** (Warden—E. Miller, [Jeh.], MA), Madingley, Cambridge (tel. Madingley 307). A large country house, dating in part from 1540, about 4 miles W. of Cambridge. In term time accommodates about 30 grad. students (who must be members of one of the colls.) in study-bedrooms. In vacations the hall is made available to the bid of extra-mural studies (see below) for residential courses.

**DEPARTMENT OF EDUCATION** (for staff, see *Education*, p. 946), 17 Brookside, Cambridge (tel. Cambridge 55271). Prepares students for the cert. in educn. awarded by the Cambridge Inst. of Educn. (see below). The 1-yr. course incl. 1 term's teaching practice and is open to grads. of any univ. Candidates must obtain admission to a coll. (in the case of women, to Hughes Hall) before applying for admission to the dept.

The univ. dept. of educn. is a corporate member of the Cambridge Inst. of Educn., 8 Brookside, Cambridge (tel. Cambridge 56207/9). Dir.: W. O. Bell, [Cath.], MA; Dep. Dir. and Sec.: F. F. C. Edmonds, [Qu.], MA.

**ADMISSION.** See Appendix III. Students must be admitted to a coll., admission to a coll. automatically secures admission to the univ. Most colls. have entrance exams., but they may admit persons who have exceptional qualif., without requiring them to take an exam. Enquiries should be addressed to the tutor for admissions of the coll. concerned (to the soc. of Ginton. or Newnham Coll.). Candidates for admission to courses of res. must also obtain the status of res. student (see below).

*The Adviser to Overseas Candidates for Admission* (N. S. Wilson, [Pemb.], MA), at 17 Silver St., Cambridge (tel. Cambridge 58933), is able to give information and advice to applicants for admission resident outside the U.K. and to govt. depts. acting on behalf of such students.

**NON-MEMBERS OF THE UNIVERSITY.** Certain classes of persons who are not members of the univ. may be admitted to lectures or allowed to work in univ. labs. for limited periods. Enquiries should be addressed to the registry.

**FIRST DEGREE.** The BA is the first degree in all subjects. The qualif. for the BA hon. are: (i) 9 terms' residence; (ii) reaching the hon. standard in any 2 of the exams. known as 'tripes' exams. (in certain cases, noted below, one such exam. is a sufficient qualif.). In most subjects, there are 2 tripes exams., the first of which (pt. I) is taken after a 1 or 2-yr. course of study, and the 2nd (pt. II) after 1 or 2 yrs. of more specialized study in certain aspects of the subj. It is possible to take the 2 tripes exams. in different subjects.

There are the following tripos exams: *agric.*, pts I & II, Anglo-Saxon (which consists of one pt. only), *archaeological & anthropological*, pts I & II; *archaeol. & fine arts*, pts. I & II, *chem.*, *engin.* (which consists of one pt. only and can only be taken after obtaining honours in certain other exams), *classical*, pts I & II; *econ.*, pts I & II, *electr. sci.* (which consists of one pt. only and can only be taken after obtaining honours in another honours exam); *Engl.*, pts. I & II, *geographical*, pts I & II, *historical*, pts. I & II, *land econ.* (which consists of one pt. only and can only be taken after obtaining honours in another honours exam), *law*, pts. I & II; *mathematical*, pts. I, II & III (pt. II qualifies for the BA without further exam., pt. III is normally taken only by the most advanced students who have omitted pt. I), *music*, *scis.* (*engin.*), pts. I & II (pt. I qualifies for the BA without further exam.), *mod. & mediev. lang.*, pts I & II, *moral sci.*, pts. I & II, *music*, pts. I & II; *nat. sci.*, pts. I & II (pt. I qualifies for the BA without further exam., in pt. I a student must read 3 or 4 sci. subs., in pt. II he specializes in 1 sci. sub.), *oriental studies*, pts. I & II, and *theological*, pts. I, II & III (pt. Ia is intended for those who have previously obtained honours in another sub.).

If a student fails to reach the standard required for honours in his 1st tripos, he will not be admitted to a 2nd tripos, but may be given an allowance towards the old BA degree and, after passing 1 or 2 of the special exams, which are held in most of the subs. covered by the triposes, be admitted to that degree. The only course leading to the old BA degree is the course in *Christian theol.* (see also 'Certificates', below).

Most exams. are held at the end of the Easter term.

**AFFILIATED STUDENTS.** Grads. of many other univs., having degrees approved for the purpose by the council of the senate, may be allowed to proceed to the BA degree after 6 terms' residence and obtaining honours in one tripos exam. only, usually a pt. II. (For details, see *The Student's Handbook*).

**HONORARY DEGREES.** Without taking any further exam. a BA may be admitted to the degree of MA after 6 yrs. have elapsed from the end of his 1st term, provided that at least 3 yrs. have elapsed from his admission as BA. The MA does not represent any addnl. academic qualif., but confers seniority, including membership of the senate and certain privileges in the use of the univ. library and other univ. instns. An MA is conferred on the principal members of the staff who have degrees of other univs. (in some cases after an interval of 3 yrs.). Other members of the grad. staff have the status of MA, which confers most of the privileges of the MA except membership of the senate and regent house.

Grads. of Oxford at Trinity Coll., Dublin, who become members of the staff, may by 'incorporating' be admitted to a degree which corre-

sponds to that which they already held and confers the same seniority.

The main res. degrees are the Ph.D., M.Litt. and M.Sc. See 'Research Students', below.

**LAW.** A person may be a candidate for the LL.B. exam. if he has obtained honours in either pt. of the law tripos, or if he is a BA and qualified to practise as a barrister or solicitor in England or Ireland or as an advocate or law agent in Scotland, or if he has passed a law exam. in another univ. approved by the fac. bd.

**MEDICINE.** The course leading to the degrees of MB BChir normally lasts 6 yrs. At least 9 terms must be spent at the univ., during which the candidate must complete the 1st MB exam., the qualifying exam. in anat. and physiol., the exam. in pharmacol., and obtain honours in a tripos (usually pt. I of the nat. sci. tripos). At this stage he is usually qualified to proceed to the BA. He must then spend at least 2 yrs. 9 mos. in clinical study at a hosp. (usually in London) and pass the final MB exam. before proceeding to the degrees of MB BChir, which are qualifs. for provisional registration under the Medical Act, 1940. Not less than 2 yrs. after passing the final exam. for the MB BChir, a person may be a candidate for the degree of MChir.

**MUSIC.** The qualifs. for the MusB are (i) 9 terms' residence; (ii) passing 2 sections of the MusB exam. Candidates must first have obtained honours in one pt. of the music tripos.

**VETERINARY MEDICINE.** The course leading to the degree of VetMB normally lasts 6 yrs. The candidate must first complete the 1st MB exam., the qualifying exam. in vet. anat. and vet. physiol., the exam. in pharmacol., and obtain honours in a tripos (usually pt. I of the nat. sci. tripos). He must then spend 3 yrs. completing specified courses at the school of vet. med. and obtaining practical experience before being admitted to the final vet. exam.

The other higher degrees, which are open only to members of the univ., are: MusM—3 yrs. from MusB, LL.M.—2 yrs. from BA or LL.B. (but at least 6 yrs. from first term of residence); BD—3 yrs. from BA, DD, LLD, MD, ScD, LittD, MusD—8 yrs. from BA or other first degree.

**HONORARY DEGREES** may be conferred on persons who have done good service to the univ. or are of great distinction. They are normally one of the following DD, LLD, ScD, LittD, MusD or MA.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** The following dipls. are open to grads. of any univ. whose qualifs. are approved (usually a degree in the same sub. is required): *agric. sci.*, 1–2 yrs.; *agric.*, 2 yrs.; *agric. studies*, 1 yr. (from 1965); *classical archaeol.*, 1 yr.; *criminol.*, 1 yr.; *mathl. stats.*, 1–2 yrs.; *numerical analysis and automatic computing*, 1 yr.; *Roman law*, 1 yr.; and *slavonic studies*, 1 yr.

Candidates are required to become members of the univ. and reside for 3 terms.

The dipls. in archit. and estate management are open only to persons with the Cambridge BA degree in those subs. (The exam for the dipl. in estate management will be held for the last time in 1966). The dipl. in educn. is open only to persons who have previously obtained the cert. in educn. at Cambridge.

The dipls. in compar. legal studies, econ. and internat. law are open only to registered res. students. See 'Research Students', below.

**CERTIFICATES.** The following certs. are open to grads. of any univ. whose quals. are approved: advanced study in chem. engin. and in engin. (either in theory of structures and strength of materials, or in control engin.), postgrad. study in chem. engin., engin., chem., metall., phys., chem. microbio. and plant biochem., hist. studies, and hist. and philos. of sci. Candidates are required to become members of the univ. and reside for 3 terms. For the cert. in educn. see 'Dept. of Educn.' above.

A cert. of proficiency and the ord. BA degree are awarded after a 3-yr. course in Chestnnt theol.

Certs. in soc. anthropol., phys. anthropol. and prehist. archaeol. are open to any member of the univ. who has been accepted by fac. bd. of archaeol. and anthropol. and who has received instruct. in Cambridge under direction of fac. bd. for 1 academic yr.

Certs. of competent knowledge in mod. langs. are open to any member of the univ. who has resided for 2 terms.

**RESEARCH STUDENTS.** Grads. of any univ., and in exceptional cases non-grads., who can give evidence of ability to profit from a course of supervised res. may be admitted as candidates for the degrees of PhD, MLitt or MSc. They must first obtain admission to the status of res. student, and become members of a coll. or Fitzwilliam House. Enquiries about admission to the status of res. student should be made to the sec. of the Bd. of Res. Studies (F. M. Aigbo, [Fitzw.], BSc(Econ) Lond., MA), The Old Schools, Cambridge (tel.: Cambridge 58933). Res. students are admitted to work in any fac.

Candidates for the degree of PhD are required to pursue a course of res. for 3 yrs., for the degrees of MSc and MLitt for 2 yrs.; and for the dipls. in compar. legal studies, econ. and internat. law or the certs. of postgrad. study in nat. scis. for 1 yr.; they are placed under the direction of a supervisor, and are required to reside in the univ. during full term, save that in certain cases a candidate for the PhD may be allowed to spend 1 yr. working under supervision elsewhere, or may be granted exemption from 1 yr. on the ground of res. done before admission to Cambridge. After completing the course, candidates are required to submit a dissertation, or thesis, embodying the results of their res., and also (except for the dipls.) undergo an oral or written exam.

Res. students may be admitted, normally for a

period of not more than 1 yr., as candidates for degrees of other univs.

The annual report of the Bd. of Res. Studies is published in the *Reporte* in Feb. or March each yr.

**EXPENSES.** Students are required to pay both univ. and coll. fees. The only recurrent univ. fee is the univ. composition fee (£16 a term in arts facs. and £20 a term in sci. facs.); this composition fee now includes the fees previously charged for matric. and BA degree. Since coll. fees vary from coll. to coll., it is not possible to give precise information. Total annual term-time expenditure is likely to be £450 or more; this would include some allowance for personal expenses. Attendance at long vacation courses would be addnl., and since the univ. terms only cover about half the yr., a student who has to maintain himself during vacation will usually need £700-£800 a yr. The following initial fees must be paid before coming into residence: coll. admission fee (£2 to £5); and, at most colls., 'caution money'. The latter is a sum of about £30 (increased by some colls. in the case of students not normally resident in the U.K.) which is returned when the student completes his course.

**ACADEMIC YEAR.** The academic yr. is divided into 3 terms. Michaelmas term: Oct. 1-Dec. 19; Lent term: Jan. 5-March 25; Easter term: April 10-June 18. In order to count a term towards the quals. required for a degree, a student is required to reside in the univ. precincts for three-quarters of the term. Most students therefore reside during full term, which also lasts for three-quarters of each term, since regular teaching and lecturing are only given in full term. Dates of full term for academic yr. 1963-64: Oct. 8-Dec. 6; Jan. 14-March 13; April 21-June 12.

During a period from the Thursday following July 6 to the Saturday following Aug. 12 there are addnl. lecture courses in agric., engin., langs., law and most sci. and med. subs., which students may attend. Students in other subs. may come into residence in this period to use libraries, etc., but will not receive formal teaching.

Most libraries and labs. are open throughout the yr. except for short periods at Christmas, Easter and in Sept.

The BOARD OF EXTRA-MURAL STUDIES undertakes the liberal educn. of adults, mainly in the eastern counties, and in a few centres further afield. The Workers' Educn. Assocn., together with other voluntary assocns. and the local educn. authorities, are represented on the bd. and are closely associated with the arrangement of its teaching work. Consultation also takes place, more especially with L.E.A.s, through the E. Anglian Regional Advisory Council for Further Educn. The teaching of the bd. consists mainly of: (a) univ. tutorial classes, extending over 3 winter sessions; (b) univ. seminar classes, usually of 20-24 meetings; (c) univ. extension lecture courses, usually of 10-12 meetings; (d) other special

courses, many of a pioneer type. Boussoles are awarded annually to men and women in the adult educ. movement who have shown themselves to be capable of profiting by a course of univ. study, but who, for various reasons, have not had the opportunity.

**Vacation Courses.** The bd. holds vacation courses, incl. (a) an annual summer sch., in co-op. with the W.E.A., mainly for students from tutorial and sess. classes, incl. a trg. course for potential tutors in adult educ.; (b) vacation courses for students from overseas, mainly Europe; (c) occas. summer schs., in co-op. with facs. or depts. of the univ. to meet special requirements. The univ. has placed Madingley Hall at the disposal of the bd. in vacations, and the bd. has arranged there a considerable no. of residential courses for adults. These incl. courses for army and R.A.F. officers, also for members of U.S.A.F., for managers, supervisors and apprentices in industry, trade unionists and teachers.

Further particulars from the soc., G. F. Hickson, [Cln.], MA, Stuart House, Cambridge (tel. Cambridge 56275). Asst. secs.: J. M. Y. Andrew, [Cuth.], MA; F. V. H. Ramsbottom, [Cuth.], MA; A. A. M. Stripp, [Trin.], MA. For names of full-time tutors, see p. 956. The bd. also has the services of about 50 pt-time tutors and lectrs.

**SCHOLARSHIPS AND STUDENTSHIPS.** There is a limited no. of univ. awards, but most are for postgrad. study and are open only to members of the univ. A large no. of awards is offered by the colls. These incl. many open entrance schols and exhibitions, which are competed for by exams. held in Dec. (Feb. for Fitzwilliam House). Full details are given in a sp. number of the *Cambs. Univ. Reporter* publ. annually in May and obtainable from the univ. press (for addresses, see p. 979) price 6d.

For postgrad. awards open to grads of other univs., see p. 970.

**APPOINTMENTS BOARD.** The bd. helps undergrads. to decide upon the careers which might suit them, and brings together employers seeking recruits and undergrads, seeking employment. 893 permanent appts. were obtained in 1961. For officers, see 'Adman and Other Staff', p. 957. Address: 6 Chaucer Rd., Cambridge (tel.: Cambridge 54423). Telegrams: Appointments, Cambridge.

THE WOMEN'S APPOINTMENTS BOARD is also at 6 Chaucer Rd., Cambridge (tel.: Cambridge 54423). 91 permanent appts. obtained in 1961.

**GRADUATE ASSOCIATIONS.** There is no soc. of univ. grads., but each coll. has its own grads. assocn.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** Cambridge univ. officers trg. corps provides service trg. for students who wish to join regular army and for candidates for commissions in army emergency reserve and territorial army. H.Q.:

The Rifle Range, Grange Rd., Cambridge (tel.: Cambridge 50995).

Cambridge univ. air squadron is established to promote interest in R.A.F. at the univ. and to attract entrants of good calibre and learning into the service by providing facilities for students to become acquainted with flying and its associated problems. Flying instrcn. given at Cambridge airport. H.Q.: 2 Chaucer Rd., Cambridge (tel. Cambridge 56942).

THE UNIVERSITY HEALTH SERVICE (tel.: Cambridge 58217) is part of the dept. of human scol. (For staff, see *Human Biology*, p. 954). All students are invited to attend for a med. exam. in their 1st term. The univ. health centre includes a gymnasium, and is situated at *Fower's*, the univ. cricket and tennis grounds.

**UNION SOCIETY.** The Cambridge Union Soc. is open to all male members of the univ. Its chief activity is debating, but it also contains a lib., restaurant and rooms for soc. activities.

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD, established 1873, examines or inspects and reports on the work of schs. which provide educ. of the highest grade. It also holds yrly exams. and awards a General Cert. of Educn. (G.C.E.) which exempts the holder, under certain conditions, from the min. entrance requirements of univs., and the prelim. exams. of various profess. bodies, etc. Its exams. are held at schs. in the British Isles, and also in the Middle East, the W. Indies and British Guiana. The regus. of the bd. are publ. by the Cambridge Univ. Press (post free, 2s. 6d.), for addresses, see p. 979. Secs.: at Cambridge—A. E. E. McKenzie, [Trin.], MA, 10 Trumpington St. (tel.: Cambridge 50658); at Oxford—G. J. R. Potter, OBE, MA Oxon., 74 High St. (tel.: Oxford 43549).

THE UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE is one of the examining bodies in England and Wales approved for sec. sch. exams. by the Min. of Educn. Its membership incl. univ. members, principals of schs. and reps. of local educn. authorities. The syndicate conducts sch. exams. in Gt. Britain and overseas, and exams. in Engl. for foreign students.

**General Cert. of Educn.** The exam. for the G.C.E. (at advanced level in June and at ord. level in July and Dec.) is entrusted to a sch. exams. cttee., one-half of whose members are teachers apptd. by the Jt. Cttee. of the Four Secondary Assns. Sch. teachers, as members of sub. cttees., and as examiners, take a prominent part in this exam. The cert. exempts the holder, under certain conditions, from univ. entrance requirements and the prelim. exams. of various profess. bodies, and is endorsed by the Min. of Educn. This exam. is not held in this form outside Europe. Sp. arrangements are made for the exam. of members of H.M. Forces.

**School Exams. Overseas.** The jt. exam. for the sch. cert. and G.C.E., and the higher sch. cert. exam. are held in Dec. in India and Pakistan,

Singapore and the Fed. of Malaya, Nigeria and E. Africa, the Fed. of Rhodesia and Nyasaland, the W. Indies, Mauritius and elsewhere in conjunction with the educn authorities, and in schs for the British community in some foreign countries. In Malaya, the H.S.C. exam. is conducted jointly with the Univ. of Malaya. The exam. for the Fed. of Malaya cert. of educn is held in conjunction with the sch. cert. exam. in the Fed. of Malaya. In Nigeria the sch. cert. is awarded jntly with the W. African Exams Council and is named W. African Sch. Cert. In the Sudan it is awarded jntly with the Sudan Exams. Council and is named Sudan Sch. Cert. Govt. scholps. to univs. are awarded on the syndicate's exams in a no. of countries of the Commonwealth. The subjs. of these overseas sch. exams. corresp. closely to those of the G.C.E. and normally carry the same exemptions in the U.K. In most areas where the exam. is taken candidates can obtain a G.C.E. cert. as well as or instead of a sch. cert. if they reach the necessary standard in 3 subjs.

**Exams. in English.** These exams for foreign students, which are conducted in assocn. with the British Council, are held in Gt. Britain and about 50 countries overseas. The cert. of proficiency in Engl<sup>1</sup>, which exempts the holder from the entrance test in Engl. at certain univs., and the dipl. of Engl. studies, which is intended to be of the same standard as a first exam. for a univ. hon. degree, carry the official approval of the Min. of Educn. There is also an exam. for a lower cert. in Engl.

The exam. for the *Cambridge Dipl. and Cert. in Religious Knowledge* is held in June, it is designed as a test of univ. standard for teachers, ordinands and others who desire evidence of having reached a high standard in their knowledge of the subj.

Full regns. (price 1s. each for G.C.E. exams and overseas exams) from the sec., Syndicate

Buildings, Cambridge (tel. Cambridge 54223). Sec. T. S. Wyatt, [Std.], MA MLitt; dep. sec.: A. V. Hardy, [Cath.], MA, most secs.: E. J. Saunders, [Fitzw.], MA; D. Garbutt, BSc Lond, MA, Janet M. Burchnell, [Gtton], MA; assts to sec.: Miss E. Overton, [Newn.], MA; R. D. Moore, [Fitzw.], MA, R. C. Lonsworth, [Pemb.], MA, P. J. Ludlow, BL Edn.; J. L. Cannon; W. G. Shephard, [Cla.], BA, J. A. Edmundson, MA St. And.; R. Tuffnell, [Selw.], MA PhD.

**PUBLICATIONS.** *The Student's Handbook*, 15s., annually (contains full information about courses of study and exams, entrance scholps., etc.); *Compendium of Univ. Regns.*, 9d.; *An Introduction to Cambridge*, by S. C. Roberts, 7s. 6d.; *Statutes and Ordinances of the Univ. of Cambridge*, 42s., every 3 yrs, annual supplements, 12s. 6d.; the *Annual Register*, 40s. (contains list of members of the univ., class-lists, scholp. winners, etc.), the *Historical Register*, 40s. (contains all recorded hon. class-lists, members of staff, prize-winners, etc., up to 1910), and its *Supplements*, 1911-20, 15s.; 1921-30, 21s.; 1931-40, 21s.; 1941-50, 25s.; 1951-55, 25s.; 1956-60, 35s.; *Students of the Univ.*, 1904 (o/p); *Alumni Cantabrigie*, ed. J. and J. A. Venn, £10. 10s. each vol. (contains biographical details of all members of the univ. - pt. 1, 4 vols. to 1751; pt. II, 6 vols. to 1752-1900), *Matriculations and Degrees*, 1544-1650, 70s.; 1851-1900, 30s.; 1901-12, 18s.; *University Calendar*, by H. P. Stokes, 15s.; *Cambridge Pocket Diary*, 5s., plus tax, annually; *Cambridge Univ. Reporter*, 6d., weekly in term. The above are obtainable from the Cambridge Univ. Press, Bentley House, 200 Euston Road, London, N.W. 1, and all booksellers.

*Histories*, etc.: *The City and Univ. of Cambridge*, ed. J. P. C. Roach (vol. 3 of the *Victoria Hist. of the County of Cambridge*); *Architectural*

#### DEPARTMENTAL TELEPHONE NUMBERS (Cambridge exchange in each case)

Adviser to Overseas Candidates for Admission	58933	Education	55071	Overseas Studies	53951
Agriculture	58181	Engineering	55691	Oxford and Cambridge Schs. Exam. Bd.	50658
Anatomy	59141	English	56111	Parasitology (Molins)	59577
Appl. Economics	58944	Extra-Mural Studies	56273	Pathology	58251
Appts. Bd. (Men)	54222	Fitzwilliam Museum	50023	Pharmacology	50639
Appts. Bd. (Women)	54220	Genetics	55694	Physics (Cavendish Lab.)	54481
Archaeol. & Anthropol.	59714	Geodesy & Geophysics	54103	Physiology	58622
Architecture	54063	Geography	51820	Press, University	51626
Biochemistry	58288	Geology	50120	Psychology	51386
Botanic Garden	50101	Health Service	58217	Radiotherapeutics	58141
Botany	58104	Land Economy	51262	Regatary	58933
Chem. Engineering	58121	Library	58261	Res. Studies, Bd. of	58933
Chemistry	58491	Local Exams.	54223	Scott Polar Res. Inst.	56457
Classical Archaeol. (Mus.)	52110	Mathematics	55313	Slovans Studies	56411
Colloid Science	56281	Medicine	58234	Statistical Lab.	58110
Criminology	59196	Metallurgy	50504	Veterinary Sch.	55647
Divinity	58980	Mineralogy & Petrology	51244	Zoology	58717
Economics	58944	Mod. & Biophys. Langs.	56411		
		Observatories	54413		
		Oriental Studies	57141		

\* The Univ. of London also awards a cert. of proficiency in Engl., see p. 1077

*History of Cambridge*, by R. Willis and J. W. Clark (4 vols.); *The Univ. of Cambridge in the 18th Century*, *Unreformed Cambridge*, *Early Victorian Cambridge*, and *Later Victorian Cambridge*, by D. A. Whitstanley, and individual coll. histories.

Unofficial publications: *The Cambridge Review*; *Resident Members of the Univ.* (extra no. of *The Cambridge Review*, Oct. 1962); *Varsity Handbook* (contains details of undergrad. clubs and socs.); *Varsity* (weekly undergrad. newspaper); *Granta*, *Delta*, etc.

CAMBRIDGE UNIVERSITY PRESS The first printing-press in Cambridge was set up in 1521, and the Univ. was authorized to print books by a charter of 1534. The Press now has a large publishing business, mainly of learned books. For staff, see 'Admun and Other Staff', p. 957. Addresses: 'Trumpington St.', Cambridge (tel.: Cambridge 57626); Bentley House, 200 Euston Rd., London, N.W.1 (telegrams: Cantabrigia, Newcast, London, tel. Euston 5451); 32 Essex St., New York, 22, U.S.A. (tel.: MU-8-8388).

## THE YEAR 1961

PRINCIPAL BENEFICIARIES Estate of Dr. L. C. G. Clarke, collection of works of art, MSS., and books; estate of Miss L. M. E. Hitchcock, £11,500, for benefit of Fitzwilliam Museum; Milk Marketing Bd. and Private Centres Group, £30,000, for permanent establishment of chair in physical reproduction.

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed*, inc. bldgs. for Engl., econ. and pol. mod. and mediev. langs. and moral sci.

NEW CHAIRS British hist. (jt. with Col.), math. stats.

RETIREMENTS J. L. Brereton (sec. local exams syndicate); Dr. F. Brittan (mediev. Latin); Prof. W. H. Bruford (German); N. Dean (dir. estate management); Mrs. Ann C. Hoston (phys.); L. A. Pears (appl. maths. and theoret. phys.); F. R. Selter (warden, Madingley Hall); Dr. R. Stowley (theoret. geophys.); Dr. R. H. Thouless (educational psychol.); Prof. C. E. Tilley (mineral and petrol.); Prof. E. B. Verney (pharmacol.); F. P. White (maths.).

PROMOTIONS Dr. P. R. Ackroyd (div.), apptd. to chair of O.T. studies, Lond.; Dr. J. F. Adams (maths.), apptd. reader, Manc.; Dr. S. M. Afari (Persian); Dr. M. F. Atiyah (maths.), apptd. reader, Oxford; T. W. I. Bullock (Spanish); Dr. A. H. Chilver (engng.), apptd. to chair of civil engng., Lond.; Dr. D. Daiches (Engl.), apptd. to chair of Engl., Sussex; W. G. Ingram (econ.), Dr. J. D. Lever (anat.), apptd. to chair of anat., Univ. Coll. of S. Wales & Monmouthshire, Cardiff; Dr. I. D. McFarlane (French), apptd. to chair of French lang. and lit., St. And.; Dr. J. W. S. Pringle (exper. cytol.), apptd. to chair of zool. and compar. anat., Oxford; Dr. G. H. Smith (biochem.), apptd. to post at Wellcome res. labs.; Dr. H. M. Taylor (sec. gen. of fucs.), apptd. principal, N. Staffs.; P. Thistlethwaite (econ. and pol.), apptd. vice-chancellor, E. Anglia; C. H. Thompson (forestry); Dr. F. Ursell (appl. maths. and theoret. phys.), apptd. to chair of appl. maths., Manc.; P. Whittle (maths.), apptd. to chair of math. stats., Manc.,

Dr. H. W. R. Wade (Engl. lang.), apptd. to chair in Engl. lang., Oxford.

DEATHS Dr. A. M. Barrett (univ. morbid anatomist and histologist to Addenbrooke's Hosp.); D. H. Beves (lectr. in French, formerly vice-provost, King's Coll.); Rev. A. C. Blyth (formerly vice-master, Selwyn Coll.); Prof. H. R. Dean (prof. of pathol., formerly master, Trinity Hall); C. R. Fay (emer. reader in econ. hist.); Dr. B. Old (formerly univ. organist); Rev. J. N. Sanders (lectr. in div.); Very Rev. N. Sykes (formerly prof. of eccles. hist.); Prof. D. S. Robertson (emer. prof. of Greek); Rev. C. T. Wood (sr. fellow, Queens' Coll.).

HONORARY DEGREES LL.D.—Rt. Hon. H. Macmillan, prime minister; J. Monnet, chairman, Action Ctrcs. for a United States of Europe; Sc.D.—Mrs. Dorothy C. Hodgkin, Wolfson res. prof., Royal Soc.; J. Pinet, prof. of child psychol. and hist. of sci. thought, Geneva; F. Rayne, agriculturalist, Latt.—Sir Alexander M. Carr-Saunders, formerly dir., London Sch. of Econ.; Sir George N. Clark, formerly regius prof. of mod. hist. *Adm.*—H. N. Howells, prof. of music, Lond.

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

		Full-Time	Part-Time
Men	.	8085	—
Women	.	848	—
Total		8933	—

Included in the figures above are —

Postgraduate students, 1584.

New admissions, 2991.

Students from other countries, 808. (Countries from which largest numbers came: U.S.A., 131; Australia, 77; India, 68; Canada, 62; S. Africa,



57; NZ, 41; Pakistan, 29; Ceylon, 25; Kenya, 22)

DEGREES AWARDED (1960-61) *All facs.* BA hons, 2327; BA ord, 183; MA, 1928; PhD, 196. *Arts* MLitt, 7; LittD, 1. *Div.* BD, 2, DD, 1. *Law* LLB, 56. *Med.* MB, 179, BChir, 184; MChir, 9, MD, 15. *Music* MusB, 7. *Sci.* MSc, 11; ScD, 14. *Vet. med* VetMB, 9. *Total number of first degrees awarded*, 2510

DIPLOMAS AWARDED (1960-61). *Agric.*, 21, *agric sci*, 7, *archit.*, 1, *classical archaeol.*, 5, *compar legal studies*, 2, *estate management*, 2; *internat law*, 1, *mathl. stats.*, 6; *numerical analysis & automatic computing*, 8, *oriental studies*, 2, *prehist. archaeol.*, 1

CERTIFICATES AWARDED (1960-61) *Edwen*, 203, *advanced study in engin.*, 13, *hist. & philos of sci.*, 4; *competent knowledge in mod langs*, 14.

# UNIVERSITY OF DURHAM\*

Founded 1832

*Postal Addresses (University Offices):*

46 North Bailey, Durham, England. Telephone: Durham 3355-6  
1A Kensington Terrace, Newcastle upon Tyne 2, England. Telephone: Newcastle 21258

VISITOR—THE LORD BISHOP OF DURHAM

CHANCELLOR—THE RT. HON. THE EARL OF SCARBOROUGH, KG, GCSI, GCIE, GCVO, TD, BA Oxon., Hon. LL.D. *Leeds, Lond. & Sheff.*, Hon. DCL

VICED-CHANCELLOR (from Aug. 1, 1961) §—D. G. CHRISTOPHERSON, OBE, DPhil Oxon., FRSE, MIMechE, Warden of the Durham Colleges

PRO-VICED-CHANCELLOR (from Aug. 1, 1961) §—C. I. C. BOANQUER, MA Oxon. & Camb., Hon. DCL, Rector of King's College, Newcastle upon Tyne

HON. TREASURER—THE MOST HON. THE MARQUESS OF NORMANBY, MBE

REGISTRAR—

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICES. Asst. Dep. Registrar: D. H. Wilson, BA Oxon. (on secondment from King's Coll., Newcastle upon Tyne) Asst. Registrar: W. E. Sexton, MA Camb., PhD Edu. Finance Officer: R. S. Bounphrey, MA Oxon.

APPOINTMENTS BOARD OFFICE. Appts. Officer: H. V. Walters, BSc PhD Lond., FIP. Dep. Appts.

Officer: J. K. Hudson, MA Oxon. Asst. Appts. Officers: T. C. Archbold, BSc; A. Pickles, MSc *Leeds*; C. A. Slipper, MA Camb.

SCHOOL EXAMINATIONS OFFICE, 8 Sydenham Terrace, Newcastle upon Tyne, 2. Sec.: P. N. Anderson, BA *Belf.*

## DIVISIONS OF THE UNIVERSITY

DURHAM COLLEGE: see p. 985

KING'S COLLEGE, NEWCASTLE UPON TYNE: see p. 992.

## AFFILIATED COLLEGES

A. Colls. in which students may matriculate, keep terms and pass exams., and so qualify for degrees without coming to England:

COCONUTS COLLEGE, Barbados, The West Indies. Trustees (under the will of Christopher Codrington, who died in 1710)—the Soc. for the Propagation of the Gospel. Affiliated to Univ. of Durham in 1875. In 1955 the Commonwealth of the Resurrection, Mufield, assumed direction of the coll. and pastoral care of the estates. Visitor—the lord bishop of Barbados; principal—Rev. R. A. M. Genders, MA Oxon.

FOURAH BAY COLLEGE, P.O. Box 87, Freetown, Sierra Leone, W. Africa: see p. 860.

B. Coll. affiliated in the schools of mech., marine, civil and electr. engin.:

SUNDERLAND TECHNICAL COLLEGE, Sunderland, Co. Durham (tel. Sunderland 4457). Founded in 1901. Affiliated in 1930 under Univ. of Durham Act, 1908. The coll. is represented on senate and on bd. of the fac. of appl. sci. Principal—M. Hulton, BA PhD. Approx. 250 univ. level students.

\* Member of the Association of Universities of the British Commonwealth

§ The warden of the Durham Colls. and the rector of King's Coll. are alternately vice-chancellor and pro vice-chancellor for 2-yr. terms

## GENERAL INFORMATION

The univ. was establd in 1832. The Coll of Medicine, founded in Newcastle in 1834, was associated with the univ. first in 1852 and more closely in 1870. The Durham Coll of Physical Sci., later Armstrong Coll., was founded in 1871 in Newcastle as a part of the univ. The reconstitution of 1908 brought the Durham Colls., the Coll of Medicine and Armstrong Coll into a closer relationship. The reconstitution of 1937 carried the process further, establishing a central financial control. It also merged the two Newcastle colls. in King's Coll, Newcastle upon Tyne.

A further reconstitution is now planned which will lead to the existence of separate univs in Durham and Newcastle. There is reason to expect that this reconstitution, which will require legislation, will take effect from Aug. 1, 1963. Under the proposed reconstitution Coddington Coll and the Univ Coll of Seacroft Leazes (Fouth Bay Coll.) would remain affiliated to the Univ of Durham as reconstituted and Sunderland Tech Coll would be affiliated in the schs. of mech., marine, civil and elect. engin. to the Univ. of Newcastle upon Tyne.

**CONSTITUTION** The univ. is governed by a visitor, chancellor, vice-chancellor, pro-vice-chancellor, convocation, court, senate and bds of facs. It includes two divisions, namely, the Durham division and the Newcastle division. The Durham division is governed by a council, an academic bd. and a warden, the Newcastle division by a council, an academic bd. and a rector. The warden and rector are alternately vice-chancellor and pro-vice-chancellor of the univ. for 2-yr. terms.

Convocation is the body of grads. which may make representations to the univ. on any univ. matter. The court appoint profs and readers on the recommendation of senate, determine the allocation of all funds at the disposal of the univ. and represent the univ. in all negotiations for obtaining grants from public bodies. Senate determine the conditions on which academic distinctions are awarded and are the supreme governing and exec. body of the univ. in all academic matters. The central activities of the univ. controlled by senate and court incl. all degree exams. and a no. of specialized activities such as the appts. bd., publications bd., sch. exams bd. and the inst. of educn.

The divisions control admission to courses and all teaching. The chancels are the governing and exec. bodies of the divisions and are advised on academic matters by the academic bds.

For the divisions and affiliated colls., see below and p. 981.

**INCOME** (1960-61) £3,711,954, incl. recurrent Treasury grant allocated to the divisions (Durham division, £484,339; Newcastle division, £1,630,635).

**FACULTIES AND DEANS.** (1961-63) *Agric.*, Prof

M. M. Cooper; *appl. sci.*, Prof G. H. Chambers (marine engin.), *arts*, Prof K. W. Baston (philos.), *econ. studies*, A. D. Airth; *law*, Prof. D. W. Elliott, *med.*, Prof A. G. R. Lowdon, *music*, Prof A. J. B. Hutchings, *sci.*, Prof. T. S. Westoll (*geol.*); *theol.*, (1962-64) *educn.*, Prof J. P. Tuck.

**LIBRARIES.** See pp. 990 and 1001.

**EXCAVATION COMMITTEE.** The excavation cttee. of senate supervises a campaign of excavation and dig in archael. methods in the Roman frontier region. A try. course for students in archael. is normally held at Corbridge in July each yr.

**ADMISSION.** See pp. 990 and 1002, and Appendix III.

**FIRST DEGREES.** BA, BSc (in sci., appl. sci. or agric.), BA(EconStudies), 3 yrs. (for honrs., 3 or 4 yrs.), the gen. degree in sci. (for which there are a final subj. of study) may be awarded with honrs., BA(SocStudies), BA (archit. studies), BA (in oriental studies), LLB, 3 yrs., BA (in fine art), BA (land use studies), 4 yrs.; BArch, 5 yrs.; MB BS, 6 yrs. of med. study (3 yrs. at least in med. sch. at Newcastle), BDS, 6 yrs.; BMus as an external degree. All other first degrees require full-time attendance at courses.

**Honours courses.** anthropol., classics, econ., Engl., French, German, geog. (arts & sci.), Greek, Latin, maths. (arts & sci.), mod. hist., music, philos., psychol., pol., Scandinavian studies, soc. theory & instns., Spanish, theol., oriental studies, fine art, land use studies. Archit. Medicine. Dental surg. Appl. phys., chem. engin., civil engin., elect. engin., marine engin., mech. engin., metall., mining engin., naval archit. Anat., bacteriol., bot., chem., geol., phys., physiol., psychol., zool. Agric. Econ. studies. Law.

**HIGHER DEGREES.** BD, 9 terms. DD, 10 yrs. from BA, 5 yrs. from BD. MA, 6 terms from graduation (except in music), MA(EconStudies), 6 terms from graduation, MLitt, 3 yrs.; MEd, 3 yrs.; DLit, 10 yrs. from graduation (except in music); BCL, 6 terms from graduation (except in music and law); MD, a yrs. from MB BS; MS, 5 yrs. from MB BS; DPhil, 6 yrs. from MB BS, MDS, 2 yrs. from BDS, DDS, 4 yrs. from MDS or 6 yrs. from BDS, MSc, 2 yrs. from BSc; DSc, 4 yrs. from MSc or PhD, or 7 yrs. from BSc; MMus, 9 terms from BMus, DMus, 6 terms from MMus; LLM, 2 yrs. from LLB or BCL; LLD, 4 yrs. from LL.M. or 6 yrs. from LLB; PhD, 3 yrs. from admission as candidate.

Grade of other univs. are admissible to the following higher degrees, after pursuing studies indicated: MLitt, 3 yrs. under supervision; MA(EconStudies), not less than 2 yrs. and not more than 4 yrs. in a course of advanced study or res. under supervision; MEd, a yrs. full-time, 3 yrs. pt.-time, under supervision; MSc, 1 yr.

full-time, 2 yrs.' pt-time advanced study and res. under supervision; MDS, not less than 2 yrs.' advanced study or res. under supervision; MMus, on exam. and exercise; LLM, not less than 2 yrs.' and not more than 4 yrs.' advanced study or res. under supervision; Ph.D., 3 yrs., incl. not less than 2 yrs.' full-time advanced study or res. under supervision in the inst.

DCL and DCh awarded only as HONORARY DEGREES. Ph.D. awarded only as 'earned'. All other higher degrees both hon. and 'earned'. No first degree hon.

**DIPLOMAS.** *Anthropol.*, 2 yrs., open to grads. of approved univs.; *appl. electronics*, 3 terms, open to grads. in pure or appl. sci. of approved univs. or to candidates with specially approved qualifs.; *Arabic*, 3 terms, open to grads. of approved univs.; *archaeol.*, 5 yrs.; *bibl. studies*, 3 terms, open to grads. of approved univs.; *econ. studies*, 2 yrs., *educ.* (instituted by inst. of educ., see below, under 'Institute of Education'), for other qualifs. awarded by the inst., 1 yr., open to grads. of approved univs.; *elect. power engin.*, 3 terms, open to grads. in appl. sci. of approved univs. or to candidates with specially approved qualifs.; *foreign lang.*, open to grads. of the univ. in any fac. except music; *highway & traffic engin.*, 3 terms, open to grads. in appl. sci. (civil engin.) of approved univs. or to candidates with specially approved qualifs.; *landscape design*, 3 terms; *numerical analysis & automatic computing*, 3 terms, open to grads. of approved univs. or to candidates with specially approved qualifs.; *psychol. med.*, 6 terms (pt-time), open to candidates who have held a registrable med. qualif. for not less than 6 mos. and a resident hosp. apt. in gen. med. & *pub. admin.*, 2 yrs.; *pub. health*, 5 terms (pt-time), open to candidates who have held a registrable med. qualif. for not less than 2 yrs.; *pub. health engin.*, 3 terms, open to grads. in appl. sci. (civil engin.) of approved univs. or to candidates with specially approved qualifs.; *theol.*, 6 terms, open to grads. of univs. of British Commonwealth; *town planning*, 3 terms, open to holders of a cert. in town planning.

**CERTIFICATES.** *Bibl. studies*, 3 terms. Soc. studies, 2 yrs.

**FEEs.** *Matric.* (non-scholarship), £2. *Exms.* (for the course): BA, LLB, BSc, £10-10s; BA (in fine art), BA (in land use studies), £10; BA (archit. studies), £7-10s; BArch, £12-10s; MB BS, £34; BDS, £24; MA, £8; MLit, MSc, MA (Econ.Studies), LL.M., £8; MMus, MDS, £10; Ph.D., MD, MS, £12; DD, DSc, DLitt, LL.D., DTh, DDiv, £15; MEd, £12; BD, £13; BCL, £15; BMus, £10; DMus, £11. *Degrees*—for initial degrees, £4 (BMus, £5); for master's degrees, BCL, BD, Ph.D., £5; for higher doctorates, MS, £10 (DMus, £15). *For tuition fees*, see below under 'Durham Colls.' and 'King's Colls.'

**ACADEMIC YEAR.** Oct to June: 3 terms (Durham Colls., 8 or 9 wks. each; King's Coll., Newcastle upon Tyne, 9½ or 10½ wks. each).

**EXTRA-MURAL WORK.** In conjunction with the N. district of the W.F.A., the univ. in its 2 divisions provides tutorial classes, *resol. classes* and univ. extension courses in a wide variety of subjs. for extra-mural adult students in the counties of Durham, Northumberland, Cumberland and Westmorland. These classes are conducted by divisional bds. for extra-mural studies under the man. of educ. regns. for adult educ. and are partly financed by grants from the man. and from L.E.A.s.

**VACATION COURSE.** See 'Evolution Ctrcs.', above.

**SCHOOL EXAMINATIONS BOARD.** Conducts exams for award of the General Cert. of Educn. Sec.: P. N. Anderson, BA Belf., 8 Sydenham Terrace, Newcastle upon Tyne, 2 (tel.: 22233). *The autumn of the bd. will close in 1964.*

**POSTGRADUATE AWARDS** open to graduates of other univs.; see p. 910.

**THE UNIVERSITY APPOINTMENTS BOARD** (see also p. 981) covers both the Durham Colls. and King's Coll., Newcastle upon Tyne. Addresses, 10 Kensington Terrace, Newcastle upon Tyne, 2 (tel.: 29827), and 61 Saddler St., Durham (tel.: 2243).

**GRADUATES' ASSOCIATIONS.** The Durham Univ. Soc. was founded in 1921. Meetings held in London Hon. sec. M. M. Lewis, BA, Olney, Sandy Lane, St. Paul's Cray, Kent (See also pp. 991 and 1003).

**UNIVERSITY NAVAL, MILITARY AND AIR FORMATION Details from 'R.N.R.':** Captain, Tyne Division, R.N.R., HMS Calliope, Newcastle upon Tyne, 4 (tel.: 35491 and 37584). *O.T.C.* (T.A.), Adjutant, H.Q. Durham Univ. O.T.C., Yeomanry Drill Hall, Northumberland Rd., Newcastle upon Tyne, 1 (tel.: 27238). *Air Squadron.* Sec., Durham Univ. Air Squadron, 3 Windsor Tce., Jesmond, Newcastle upon Tyne (tel.: 81-3093). *W.R.A.C.*—Admin. Officers, W.R.A.C., Yeomanry Drill Hall, Northumberland Rd., Newcastle upon Tyne, 1 (tel.: 27238).

**INSTITUTE OF EDUCATION.** The inst. examines students in the univ. depts. of educ., and in trg. colls. associated with the univ. through the inst., and provides facilities for further study for teachers already qualified and in practice. The inst. awards the univ.'s dipl. in educ. (open to grads. of approved univs.) after 1 yr.'s course. The inst. also awards the following qualifs. on courses open to teachers of at least 3 yrs.' experience: dipl. in educ. of young children, 1 yr. full-time plus some pt-time study, 3 yrs. pt-time; dipl. in further study of sec. educ., 3 yrs. pt-time; dipl. in educ. of handicapped children, 1 yr. full-time plus some pt-time study, dipl. in further educ., 3 yrs. pt-time, *testatur* in Engl. studies for Norwegians, 1 yr. full-time, cert. for approved sch. housemasters, 1 yr. full-time; cert. in 'subject teaching' in sec. schools, 3 yrs. pt-time; *metastudy* in educn. for overseas teachers, 1 yr. full-time. The headquarters

of the inst. are at 39 Leazes Terrace, Newcastle upon Tyne, 1 (tel.: Newcastle 28504)

**Staff of Institute** Dir.—B. Stanley, MA Oxon. Staff tutors—A. Ainsie, MA Edin., J. W. Bainbridge, BSc; W. G. Branchwate, BSc; Dorothy I. E. Carr, MA; Mrs. Mary Edmondson, BA; W. Fawcus, MA; Mrs. Winifred Fawcus, MA; Mrs. Dorothy Heathcote, MA; E. W. Hughes, BSc MA Burs. H. D. Jones, BA, Wifes, LL.M. Lond.; R. Raven; R. Morris, MA Oxon.; Mabel F. Wilson, BA Librarian—J. D. Dew, MA Camb. Admin. assis.—Elsie Wightman (see for exams.), A. K. Grieve, MC, MA Camb

**Training Colls.** Alnwick Trg. Coll. (principal—Winifred Taylor, BSc Lond.), Bede Coll., Durham (principal—K. G. Collier, MA Camb); Darlington Trg. Coll. (principal—Phyllis M. Steele, MEd Monc.); Keston Lodge Trg. Coll., Newcastle upon Tyne (principal—Naia I. Chelton, MA Oxon.); Neville's Cross Coll., Durham (principal—Mary Whitley, BA Liv.); Newcastle Day Trg. Coll. (principal—R. D. Bainswell, MA Burs, PhD); Northern Counties Coll., Newcastle upon Tyne (principal—Irene Rowland, MA Lond, BSc Lev); St. Hilda's Coll., Durham (principal—Nana M. E. Joachim, MA

Oxon); St. Mary's Coll., Fenham, Newcastle upon Tyne (principal—Madame Angela M. Ward, MA Lond.); Sunderland Trg. Coll. (principal—Joyce T. Tasker, MA Camb)

**PUBLICATIONS.** *Univ. Calendar* (Oct.), vol. I—almanack, statutes, lists, etc., vol. II—regns. for degrees 7s. 6d. per vol. *list of Grads of the Univ.* (1954), *Univ. of Durham Gazette*, annual sub. 2s. 6d.; *Durham Univ. Journal*, once a term, annual sub. 6s. 6d., *Riddell Memorial Lectures* (annual), 12s. 6d., *The Univ. of Durham 1832-1932*, by C. E. Whiting (Sheildon Press, London, 1932); *Report of Royal Commission on the Univ. of Durham* (H.M.S.O., London, 1935); *The Newcastle upon Tyne Sch. of Medicine 1834-1934*, by Turner and Armon (Andrew Reid & Co. Ltd., Newcastle upon Tyne, 1934). The inst. of edw. publs a *Journal* 5 times a yr, annual sub. 2s. 6d., and the *Durham Research Review*, annually, 5s.

**PUBLICATIONS BOARD** The bd are a ctee. of senets, founded in 1950 in order to arrange for the publica. of a series of monographs, sponsored by the univ. and known as Univ. of Durham Publications, although they are pubd by the Oxford Univ. Press. The bd expect to publish about 2 vols a yr.

## THE YEAR 1961

**RESIGNATIONS.** G. A. Chadwick (dep registrar, upstd registrar, Univ. of E. Anglia).

**HONORARY DEGREES.** DCL—J. D. Cowan, Barclay's Bank; Sir Walter Drummond, vice-chairman, Council of King's Coll., Newcastle; Dr. A. Hine, formerly headmaster, Q. Elizabeth Grammar Sch., Darlington; F. Schoon, Cumberland industrialist. DSc—Dr. C. F. A. Panten, prof. of zool, Camb. DLitt—Miss C. A. Lejeune, film critic of the *Observer*, 1928-60. DCL—Dr. L. Guttmann, dir., Nat. Spinal Injuries Centre, Aylesbury. DMus—G. E. H. Abraham, prof. of music, Liv. MA—Mrs E. Blyth, member of Council, Durham Colls.; J. Crawley, dis., Sunderland pub. librs., museum and art gallery, 1939-60. MSc—S. G. Barrett, chairman, civil engin. advs. panels of univ. appts bd (at Fouth Bay Coll.). DCL—H. R. H. the Duke of Kent; Sir Milton Muggal, premier, Sierra Leone.

### Statistics

STUDENT NUMBERS, 1961-62\*  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4329	348
Women	1262	124
Total	5591	472

Distribution by Faculties Age, 171, appl

\* Durham and Newcastle divisions only.

† Includes MEd candidates, registered and studying in both Durham and Newcastle divisions.

‡ Including affiliated colleges

sci., 695, arts, 2216, econ. studies, 173; edw., 295; law, 130, med., 767, sci., 1497, theol., 117. Total 6063.

Included in the figures above are —

Postgraduate students, 854

New admissions, 1989.

Students from other countries, 441. (Countries from which largest numbers came: Nigeria, 16; India, 41).

**DEGREES AWARDED (1960-61)** || Agric.: BSc, 36; BSc hons., 4; MSc, 10. Appl. sci.: BSc, 133; BSc hons., 115; MSc, 6. Arts: BA, 184; BA hons., 272; BArch, 2; BArch hons., 7; BCL, 1; MA, 22; MLitt, 4. Econ.: BA, 35; BA hons., 17; MA, 1. Edw.: MED, 3. Law: LLB hons., 22. Med (incl. dent. surg.): MB BS, 72; MB BS hons., 3; MS, 1; MD, 6; BDS, 14; BDS hons., 2; MDS, 2. Sci.: BSc, 53; BSc hons., 211; MSc, 14. PhD (all facs): 61. Total number of first degrees awarded, 1202.

**LICENCES AWARDED (1960-61).** LDS, 23.

**DIPLOMAS AWARDED (1960-61)** || DipArch, 2; DipArch, 6; art teacher's, 5; DipPublStudies, 1; DipEd, 237; foreign langs., 1; highway & traffic engin., 4; landscape design, 8; DPM, 12; pub. health engin., 2; DipTheol, 17; town planning, 11.

**CERTIFICATES AWARDED (1960-61).** Bibl. studies, 5; soc. studies, 3.

## DURHAM COLLEGES

Founded 1832

Postal Address:

Warden, Treasurer, Registrar and Secretary 38 North Bailey, Durham, England  
(Telephone: Durham 2233-4)

Librarian: Palace Green, Durham, England (Telephone: Durham 2654)

WARDEN—D. G. CHRISTOPHERSON, OBE, DPhil Oxon., FRS, MIMechE (Vice-Chancellor of the University \*)

CHAIRMAN OF COUNCIL—Sir EDWARD F. COLLINGSWOOD, CBE, MA PhD ScD Camb., Hon. DSc

REGISTRAR AND SECRETARY—I. E. GRAHAM, MA Edin.

TREASURER—Col. J. C. R. FITZGERALD-LOMBARD, OBE, MA Camb.

LIBRARIAN—D. G. RAMAGE, MA Edin., FLA

## TEACHING STAFF

(†=Part-Time)

**Arabic**, see Oriental Studies

### Archaeology

Burley, E., MBE, MA Oxon., FSA

(Roman-Brit. Hist. & A.) Prof

Cramp, Rosemary J., MA B Litt Oxon., FSA

(Anglo-Saxon Antiquities & A.) Lectr.

Minn, J. C., BA PhD Lond.

(Roman-Brit. Hist. & A.) Lectr.

### Botany

Valentine, D. H., MA PhD Camb., FLS Prof.

Crosby, J. L., MA PhD Camb. Sr. Lectr.

Chalkin, Kathleen M., MSc Wales Lectr.

Banbury, G. H., BSc Lond. Lectr.

Watson, Pauline, BSc PhD Lond. Lectr.

Bellamy, D. J., BSc Lond. Lectr.

### Chemistry

Coates, G. E., MA Oxon., DSc Brist., FRIC Prof.

Musgrave, W. K. R., PhD DSc Birm. (Org. C) Prof

Martin, G. R., BSc Lond., FRIC (Radiochem.) Reader

Christie, G. H., MSc PhD Sheff., FSA Sr. Lectr.

Kohnstam, G., BSc PhD Lond. Sr. Lectr.

Gibby, C. W., MSc PhD Lond., FRIC, FSA Lectr.

Glockling, F., BSc PhD Brist. Lectr.

Weston, M., MA Camb., PhD Leeds (Radiochem.) Lectr.

Shearer, H. M. M., BSc PhD Glas. Lectr.

Lytle, S. J., MSc Belf., PhD Birm. (Radiochem.) Lectr.

Chambers, R. D., BSc PhD

Wade, K., BSc PhD Natl. Lectr.

Brooke, G. M., BSc PhD Birm. Lectr.

2 Res. Fellows, 1 Res. Asst.

### Classics and Ancient History

Woodcock, E. C., MA Camb. (Latin) Prof.

Stomp, J. B., MA Camb., PhD Edin. (Greek) Prof.

Wright, R. P., MA Camb., FSA Sr. Lectr.

Collings, N. E., MC, MA Camb. Sr. Lectr.

Williams, R. T., MC, MA Wales Sr. Lectr.

Badam, E., MA N.Z. & Oxon., DPhil Oxon. Lectr.

Bargrave-Weaver, D., MA Camb., PhD Lectr.

Jenkinson, Edna M., MA PhD Camb. Lectr.

Miller, K. W., MA Oxon. Lectr.

Duckinson, R. J., BA Camb. & Durh. Lectr.

Levitt, N., BA MLitt Temp. Lectr.

Sandys-Wood, A. L., BA Brist., MA Camb., (Anc. Hist.) †Lectr.

BLitt Oxon.

### Divinity, see Theol.

### Economics, see Soc. Studies

### Education

Englesham, E. J. R., MA BEd Edin., LLB Lond. Prof.

Grant, J. J., CBE, MA EdB Glas., Hon. DCL Dep. to Hd. of Dept.

Willatt, J. F., TD, MA Camb., MEd Sr. Lectr.

Tallentire, Mrs. Ethel M., BSc Lectr.

Hewitt, E. A., BA Brist., MEd Lectr.

Calvert, Florence I., MA Sheff. Lectr.

\* See footnote to p. 981.

Hartop, B. B., MA *BEd Edin.*  
 Turner, S., BSc  
 May, P. R., BA *Manc.*  
 Bowcott, E., MA  
 Pennington, A., BSc *Manc.*, MEd  
 3 Lectrs.}

Lectr. **German**  
 Scott, D. F. S., MA *Leind*, DPhil *Gott.* Prof.  
 Orton, G., MA *Oxon* Sr. Lectr.  
 Mairall, E. J., MA *Leind* Lectr.  
 Smeed, J. W., MA PhD *Wales* Lectr.  
 1 Lektor

**Egyptology**, see *Oriental Studies*

**Hebrew**, see *Oriental Studies*

### English Language and Literature

Leech, C., MA PhD *Leind*. (on leave) Prof.  
 Smithers, G. V., MA *Oxon*. (E Lang.) Prof.  
 Brooks, N. S., MA *Camb* Sr. Lectr.  
 Foulkes, R. A., MA PhD *Birm* Lectr.  
 Ivy, G. S., MA *Camb.* & *Prin.*,  
 PhD *Leind* Lectr.  
 Cunningham, J. S., BLitt *Oxon*, BA  
 Lever, J. W., MA *Oxon* Lectr.  
 Watts, V. E., BA *Oxon* Lectr.  
 Morrison, Anthea, MA PhD *Birm*. Temp Lectr.  
 Curtis, Mary M., MA PhD *Manc* } Lectr.

### French

Lough, J., MA PhD *Camb* Prof.  
 Allen, L., MA *Manc* Sr. Lectr.  
 Wilson, D. B., MA *Camb*, DUPair Lectr.  
 Mossop, D. J., MA *Cape T*, DUPair Lectr.  
 Marshall, J. H., MA *Oxon*. Lectr.  
 Kearns, E. J., BA DPhil *R'dg*. Lectr.  
 Anderson, R., MA *Aberd* Lectr.  
 Jennings, Patricia F., BA *Leind*. Lectr.  
 Scott, Ethleen M., MA *Leind*. Hon. Lectr.  
 1 Lecteur, 1 Lectrice

### Geography

Fisher, W. B., BA *Manc*, DUPair, FRAI Prof.  
 Bowen-Jones, H., MA *Camb*. Sr. Lectr.  
 Holmes, C. W., MA Lectr.  
 Dewdney, J. C., MA *Edin*. Lectr.  
 Clarke, J. L., MA PhD *Aberd*. Lectr.  
 Proudfoot, V. B., BA PhD *Belf*. Lectr.  
 Simmons, I. G., BSc *Leind* Lectr.  
 Willmott, S. G., BSc *Leind*, PhD *Lie & Camb*.  
 (Soil Sci.) Lectr.  
 Sunderland, E., MA *Water*, PhD *Leind*  
 (Anthropol.) Lectr.  
 Slater, L., MA *Camb*. Hon. Lectr.  
 1 Res Asst

### Geology

Dunham, K. C., SD *Harv.*, PhD DSc,  
 FRG Prof.  
 Hopkins, W., PhD DSc, FGS Reader  
 Phillips, R., BSc *Leeds*, FGS (Mineral.) Lectr.  
 House, M. R., MA *Camb*, PhD Lectr.  
 Best, M. H. P., MA PhD *Camb*  
 (Geophys.) Lectr.  
 Emelious, C. H., MSc *Belf*, DPhil *Oxon* Lectr.  
 Johnson, G. A. L., BSc PhD Lectr.  
 Hirst, D. N., BSc PhD *Manc*.  
 (Geochem.) Lectr.  
 Whitworth, T., MA DPhil *Oxon*. Hon. Lectr.  
 1 I.C.I. Fellow, 1 Res. Fellow, 1 Res. Asst

### History

Hughes, E., MA *Manc*. (Med. H.) Prof.  
 Offler, H. S., MA *Camb*. (Mediæv. H.) Prof.  
 James, M. E., MA *Oxon* Sr. Lectr.  
 Harcus, G. L., MA DPhil *Oxon* Lectr.  
 Ellis, K. L., MA DPhil *Oxon* Lectr.  
 Anstey, R. T., MA *Camb*, PhD *Leind*. Lectr.  
 Wallace, W. V., MA *Glas & Leind* Lectr.  
 Lowe, C. J., BA PhD *Leind*. } Lectr.

### Mathematics

Router, G. E. H., MA *Camb*. (Pure M.) Prof.  
 Stevenson, K., MA PhD *Camb*.  
 (Appl. M.) Prof.  
 Baxter, E. F., MA *Camb*, MSc *Leind*. Sr. Lectr.  
 Smith, R. A., BSc *Syd.*, MA PhD *Camb* Lectr.  
 Atkin, A. O. L., MA PhD *Camb*. Lectr.  
 Wilson, D. H., MSc *Leind* Lectr.  
 Ainslie, J. V., BSc PhD *Leind* Lectr.  
 Hawgood, J., BA DPhil *Oxon*. Lectr.  
 Riley, N., BSc PhD *Manc*. Lectr.  
 Shocsmith, D. J., BA *Camb*. Lectr.  
 Brown, Susan N., MA *Oxon*. Temp Lectr.  
 Hoigate, S., MA PhD Hon. Lectr.

### Music

Hutchings, A. J. B., BA BMus PhD *Leind*,  
 FTCL. Prof.  
 Dickinson, A. E. F., MA BMus *Oxon*. Sr. Lectr.  
 Harman, R. A., BMus Lectr.  
 Robinson, M. F., MA BMus *Oxon*. Lectr.

### Oriental Studies

Thacker, T. W., MA *Oxon*.  
 (Semitic Philol.) Prof.  
 Rawson, P. S., MA *Leind*.  
 Curator of Gulbenkian Museum  
 Macadam, M. F. L., BA DPhil *Oxon*,  
 FSA (Egyptol.) Reader  
 Simpson, C. G., BA *Leind*. (Turkish) Reader  
 Thornhill, Rev. R., MA (Hebrew) Lectr.  
 Bagley, F. R. C., MA *Oxon* (Persian) Lectr.  
 Hill, R. L., MA BLitt *Oxon* (Nr. E. Hist.) Lectr.  
 Barnes, A. C., BA *Leind*  
 (Chinese Lang. and Civ.) Spalding Lectr.  
 Basu, A., MA *Cair*.  
 (Indian Philol.) Spalding Lectr.  
 Dabagh, H. M. A., BA *Leind*. (Arabic) Lectr.  
 Kuhn, K. H., BA PhD (Hebrew) Lectr.  
 Haywood, J. A., MA *Sheff*, BMus  
 (Arabic) Lectr.

## Palmography and Diplomatie

Figg, J. E., MA Camb.	Reader
Seasmell, G. V., MA Camb.	Lectr.
Hadfield, C. R., MA, FSA	Lectr.
Shupe, M. G., MA Camb.	Asst. Keeper
Dodge, R. P., MA PhD St. And.	Asst. Keeper
Fewster, J. M., BA PhD	Asst. Keeper
1 Asst.	

## Persian, see Oriental Studies

## Philosophy

Grant, C. K., MA DPhil Oxon.	Prof.
van Leyden, W., DPhil Florence & Oxon.	Sr. Lectr.
Brertherton, Doreen G., BA PhD Lond.	Lectr.
Lyon, A. J., BA Camb.	(P. of Soc.) Lectr.
	(Hist. of Sci.) Lectr.
Taylor, Mrs. Mabel H., BA W. Aust., MA Oxon.	† Lectr.

## Physics

Rochester, G. D., MSc PhD, FRS, FIP	Prof.
Chalmers, J. A., MA PhD Camb., BSc Lond., FIP	Reader
Prowse, W. A., TD, BSc PhD	(Appl. Electricity) Reader
Wolfe, A. W., BSc PhD Manc.	(Nuclear P.) Sr. Lectr.
Cooner, W. D., BSc PhD Leeds	Sr. Lectr.
Major, J. V., BSc Manc.	Lectr.
Hutchinson, W. C. A., BSc PhD	Lectr.
Apostolakis, A., BSc Athens, PhD Manc.	Lectr.
Ashton, F., BSc Manc., PhD	Lectr.
Taylor, K. N. R., BSc PhD Birm.	Lectr.
Thompson, M. G., BSc PhD Leeds	Lectr.
1 Res. Fellow, 2 Res. Assts.	

## Physics, Applied

Wright, D. A., DSc Birm.	Prof.
Woods, J., BSc PhD Lond.	Lectr.
Morant, M. J., BSc PhD Lond.	Lectr.
Thorp, J. S., BSc Sheff.	Lectr.
2 Res. Assts.	

## Politics, see Soc. Studies

## Psychology

Smith, F. V., MA Syd., PhD Lond., FBP&S	Prof.
Graham, D., MA BSc(Econ) Lond., EdB Glas.	Sr. Lectr.
Howard, I. F., BSc Manc.	Lectr.
Hendry, D. P., MA Edin., PhD Yale	Lectr.
Baker, C., BA Lond., MA Law.	Lectr.
Thomson, R., MA Oxon.	† Lectr.
Ramsay, S. G., BSc Edin.	† Lectr.
3 Res. Assts.	

## Russian

Harrison, W., BA Camb.	Lectr.
------------------------	--------

## Social Studies

Morris-Jones, W. H., BSc(Econ) Lond.	(Pol. Theory & Instrn.) Prof.
	(Econ.) Reader
Allen, E., MA Sheff.	Dir., Business Res. Unit
Older, A. J., BA Manc.	Dir., Business Res. Unit
Bromhead, P. A., MA DPhil Oxon.	(Pol.) Sr. Lectr.
Moos, S., MA	Lectr.
Bynnt, I. C. R., BA Oxon.	(on leave) (Econ.) Lectr.
Atkinson, G. C., MA Manc.	(Pol.) Lectr.
Blair, L., BL PhD Edin.	(Law) Lectr.
Cullingworth, J. B., BSc Lond.	(Soc. Admin.) Lectr.
Elkan, W., BSc(Econ) PhD Lond.	(Econ.) Lectr.
Boyle, A. J., LL.M Lond.	(Law) Lectr.
Henty, S. G. B., BSc(Econ) Lond.	(Econ.) Temp. Lectr.
3 Res. Fellows, 4 Res. Assts.	

## Spanish

Brooks, J. L., BA Dab.	Reader
Caballero, P., DU Manch.	Lectr.
Strong, E. B., BA Manc.	Lectr.
1 Lectors	

## Theology

Turner, Canon H. E. W., MA DD Oxon.	Van Mildert Prof.
Hanson, Rev. R., BA DD Dab.	Lightfoot Prof.
Barrett, Rev. C. K., MA DD Camb., FBA	Prof.
Whitehouse, Rev. W. A., MA Camb. & Oxon.	Reader
Blatt, Owen, Hon. DD Edin.	Sr. Lectr.
Cranfield, Rev. C. E. B., MA Camb.	Lectr.
Jones, Rev. D. R., MA Oxon.	Lectr.
Gelston, Rev. A., MA Oxon.	Lectr.
6 Lectors	

## Turkish, see Oriental Studies

## Zoology

Baker, D., MA DPhil Oxon.	Prof.
Davies, L., BSc Wales, PhD	Sr. Lectr.
Anshy, K. R., MA Camb., PhD Sheff.	Lectr.
Phillips, J., BSc PhD	Lectr.
Wood, D. W., BSc Lond., PhD Glas.	Lectr.
Conlisk, J. C., BSc PhD	Lectr.
1 Res. Asst.	

## EXTRA-MURAL DEPARTMENT

104	Tutors employed, of whom 6 (named below) are on the staff of the Extra-Mural Dept. and are members of the Univ. Internal Staff.
	Dir. of Extra-Mural Studies: T. F. Davenney, BA Lond. Staff Tutors: D. S. Reid, MA PhD St. And., P. R. Keim-Caudle, BSc (Econ) Lond., J. R. Till, MA Oxon., J. H. Benson, BA Manc.; Margaret E. Bradshaw, BSc Leeds; B. Dobson, BA PhD. Sec. of N. District of W.E.A.: C. H. Hocking, BA.



## ADMINISTRATIVE AND OTHER STAFF

Asst. Treasurer of the Durham Colls.: B Durham Colls.: Beatrice Hollingworth, BCom  
 Cooke, BA Lond Bldgs. Officers: Col D. M Dep Librarian: G S Dacrow, MA Camb  
 Eley: G. Collier, BSc Lond Dep Sec of the

## THE COLLEGES

UNIVERSITY COLLEGE (for men). Founded 1833 Students live in Durham Castle and Lumley Castle, near Chester-le-Street. Students in residence (1961-62), 266. Telephone: Durham 2488.

Master—L. Slater, MA Camb. (Hon. Lectr. Geog.)

Vice-Master  
 Provost, W. A., TD, BSc PhD (U. Reader Phys.)  
 Sr. Tutor  
 Thomson, R., MA Oxon. (U. † Lectr. Psychol.)  
 Bursar  
 Ramsay, S. G., BSc Edin. (U. † Lectr. Psychol.)  
 Tutors  
 Ashby, K. R., MA Camb., PhD Sheff. (U. Lectr. Zool.)  
 Atkins, A. O. L., MA PhD Camb. (U. Lectr. Maths.)  
 Bott, M. H. P., MA PhD Camb. (U. Lectr. Geol.)  
 Dendney, J. C., MA Edin. (U. Lectr. Geog.)  
 Emeleus, C. H., MSc Belf., DPhil Oxon. (U. Lectr. Geol.)  
 Harris, G. L., MA DPhil Oxon. (U. Lectr. Hist.)  
 Mossop, D. J., MA Cape T., DU Paris (U. Lectr. French)  
 Wilson, D. B., MA Camb., DU Paris (U. Lectr. French)  
 Lowe Librarian  
 Hall, A. T., MA Leeds (U. Asst. Librarian)  
 Chaplain  
 Griffith, Rev. G. G., MA

HATFIELD COLLEGE (for men). Founded 1846. Students in residence (1961-62), 254. Telephone: Durham 4261-2.

Master—T. Whitworth, MA DPhil Oxon. (Hon. Lectr. Geol.)

Vice-Master  
 Fisher, W. B., BA Manc., DU Paris, FRAI (Prof. Geog.)  
 Sr. Tutor  
 Sanders-Wood, A. L., BA Brant, MA Camb., BLitt Oxon. (U. † Lectr. Anc. Hist.)  
 Bursar  
 Huddleston, C. R., MA, FSA (U. † Lectr. Paleog. & Diplomatic)  
 Tutors  
 Clarke, J. I., MA PhD Aberd. (U. Lectr. Geog.)  
 Durlow, G. S., MA Camb., (Dep. Librarian)  
 Johnson, G. A. L., BSc PhD (U. Lectr. Geol.)  
 Kohnstamm, G., BSc PhD Lond. (U. Sr. Lectr. Chem.)  
 Proudfoot, V. B., BA PhD Belf. (U. Lectr. Geog.)  
 Willmott, S. G., BSc Liv., PhD Liv. & Camb. (U. Lectr. Geog.)  
 Librarian  
 Dolg, R. P., MA PhD St. And. (Asst. Keeper Paleog. & Diplomatic)  
 Chaplain  
 Griffith, Rev. G. G., MA

GRAY COLLEGE (for men). Founded 1959. The main block came into use in 1961. The coll. will ultimately house over 300 students. Students in residence (1961-62), 161. Telephone: Durham 4238.

Master—S. Holgate, MA PhD (Hon. Lectr. Maths.)

Sr. Tutor  
 Pennington, A., BSc Manc., MEd (U. † Lectr. Educ.)  
 Bursar  
 Lowe, C. J., BA PhD Lond. (U. † Lectr. Hist.)  
 Tutors  
 Anstey, R. T., MA Camb., PhD Lond. (U. Lectr. Hist.)  
 Arncliffe, J. V., BSc PhD Lond. (U. Lectr. Maths.)  
 Hartog, B. B., MA BEd Edin. (U. Lectr. Educ.)  
 Bagley, F. R. C., MA Oxon. (U. Lectr. Fernan.)  
 Girdler, R. W., BSc R'dg., PhD Camb. (I.C.I. Fellow Geol.)  
 Harman, R. A., BMus (U. Lectr. Music)  
 Wade, K., BSc PhD Natl. (U. Lectr. Chem.)  
 Weston, M., MA Camb., PhD Leeds (U. Lectr. Chem.)  
 Wood, D. W., BSc Lond., PhD Glas. (U. Lectr. Zool.)

ST. CHAD'S COLLEGE (for men). Founded 1904 primarily for the trg. of candidates for Holy Orders in the Church of England. Students in residence (1961-62), 60. Telephone: Durham 4681.

Principal—Rev. Canon T. S. Wetherill, MA Oxon

Vice-Principal and Chaplain  
Popplewell, Rev. D. L., MA Oxon.

Tutors  
Collinge, N. E., MC, MA Camb. (*U. Sr. Lectr. Classics*)

ST. JOHN'S COLLEGE (for men). Founded 1909 primarily for the trg. of candidates for Holy Orders in the Church of England. Students in residence (1961-62), 147. Telephone: Durham 2306.

Principal—Rev. Canon J. P. Hickinbotham, MA Oxon.

Vice-Principal  
Reeve, Rev. R. E., MA BD

Chaplain  
Cochetson, Rev. J. C. P., MA

Censor  
Read, Rev. W. N., MA

Tutors  
Condor, Rev. P. N. C., MA  
Nixon, Rev. R. E. N., MA

DEES COLLEGE (for men). Founded 1841. Training coll. under Ministry of Educn. recognized as a coll. of the Durham division of the univ. Univ. students in residence (1961-62), 63. Telephone: Durham 3447.

Principal—K. G. Collier, MA Camb.; Vice-Principal—G. N. G. Smith, MA

ST. CUTHBERT'S SOCIETY (for men). Founded 1871. Body of non-collegiate men students. Students in residence (1961-62), 316. Telephone: Durham 2776

Principal—J. J. Grant, CBE, MA EdB Glas., Hon. DCL

Resident Tutor  
Holmes, C. W., MA (*U. Lectr. Geog.*)

Tutors  
Benson, J. H., BA Manc. (*Extra-Mural Tutor*)  
Blair, L., BL PhD Edin. (*U. Lectr. Law*)  
Bromhead, P. A., MA DPhil Oxon. (*U. Sr. Lectr. Pol.*)  
Cunningham, J. S., BLitt Oxon., BA (*U. Lectr. Engl.*)  
Davies, L., BSc Wales, PhD (*U. Sr. Lectr. Zool.*)  
Glockling, F., BSc PhD Brat. (*U. Lectr. Chem.*)  
Hewitt, E. A., BA Brist., MEd (*U. Lectr. Educn.*)  
Hutchinson, W. C. A., BSc PhD (*U. Lectr. Phys.*)

Ivy, G. S., MA Camb. & Prin., PhD Lond. (*U. Lectr. Engl.*)  
Kuhn, K. A., BA PhD (*U. Lectr. Hebrew*)  
Phillips, R., BSc Leeds, FGS (*U. Lectr. Geol.*)  
Phillips, J., BSc PhD (*U. Lectr. Zool.*)  
Scammell, G. V., MA Camb. (*U. Lectr. Palaeog. & Diplomatics*)  
Shearer, H. M. M., BSc PhD Glas. (*U. Lectr. Chem.*)  
Snape, M. G., MA Camb. (*Asst. Keeper Palaeog. & Diplomatics*)

Chaplain  
Bevan, Rev. R. J. W., BA

ST. MARY'S COLLEGE (for women). Founded 1899. Students in residence (1961-62), 150. Telephone: Durham 3533.

Principal—Mrs. Mary Holdsworth, MA Oxon.

Tutors  
Curtis, Mary M., MA PhD Manc. (*Sr. Tutor, U. Lectr. Engl.*)  
Jenkinson, Edna M., BA PhD Camb. (*U. Lectr. Classics*)  
Calvert, Florence L., MA Sheff. (*U. Lectr. Educn.*)  
Crainp, Rosemary J., MA BLitt Oxon., FSA (*U. Lectr. Archael.*)  
Offer, Mrs. Betty E., MA Oxon  
Tallentus, Mrs. Ethel M., BSc (*U. Lectr. Educn.*)

Aitken, Beryl M. W., MA Oxon (*U. Asst. Librarian*)  
Watson, Pauline, BSc PhD Lond. (*U. Lectr. Bot.*)  
Chilton, Ella, BA (*Sec.*)

Bursar  
Klumper, H. Christina

Chaplain  
Bevan, Rev. R. J. W., BA

**ST AIDAN'S COLLEGE** (for women) Founded 1947. Body of non-collegiate women students. Students in residence (1961-62), 96 Telephone Durham 2470.  
Principal—Ethleen M. Scott, MA Lond (Hon. Lectr. French)

Vice-Principal Laybourne, Mrs Helen, MA Oxon  
Taylor, Mrs Mabel H, BA W Ainst., MA Oxon Shedd, Elizabeth M., BA (Sec)  
(U Lect Philo)  
Tutors  
Broomhead, Mrs. Evelyn, MA Chaplain  
Chalkin, Kathleen M, MSc Wales (U. Lectr. Bot.) Bevan, Rev. R. J. W., BA

### LICENSED HALLS OF RESIDENCE

(Training colls. under Ministry of Educn. licensed by the council at the Durham Colls. as places of residence for students reading for degrees in the Durham division of the univ.)

**ST. HILD'S COLLEGE** (for women) Founded 1858. Univ. students in residence (1961-62), 40  
Telephone Durham 3491

Principal—Nina M. E. Joachim, MA Oxon.

**NEVILLE'S CROSS COLLEGE** (for women). Founded 1921 Univ. students in residence (1961-62), 42  
Telephone Durham 2325

Principal—Mary Whitley, BA Lou.

### GENERAL INFORMATION

For a note on the plan for separate univs. in Durham and Newcastle, see p. 982

The univ. was founded in Durham in 1832 after a abortive attempts in earlier centuries. Halls of residence were opened and were later recog. as constituent colls. at various times during the course of the last 100 yrs. Women have been admitted to Durham since 1896 and non-collegiate students since 1871. Until 1946 all Durham Colls.' students lived in coll., but post-war expansion has made this impossible, and approx. one-fifth of the total no live in licensed lodgings as members of St Catharine's Soc. (men) or St Aidan's Coll. (women). Teaching is organized centrally, and all colls. and socs take students for all courses. St. Chad's and St. John's Colls. are also recog. theol. colls. of the Church of England, and provide full postgrad. try for ordination candidates.

Various depts. of the division are now housed in different parts of the city, and a plan showing their position is pubd. in the *Durham Colleges Handbook*.

INCOME (1960-61) £562,000.

**LIBRARY** Contains more than 230,000 vols. incl. 199 manuscripts and extensive collections of older books, notably on patristics and Engl. hist. a large section, for sci. and oriental studies, the latter of which contains valuable sp. material, are separately housed.

**LABORATORIES.** Appl. phys., bot., chem., geol., phys., radiochem., zool. at South Rd.; psychol. at Kepler Terrace

**OBSERVATORY.** Erected in 1841, equipped for work in astron., meteorol. and seasonal, library includes valuable collection of periodicals and other publica. on these subjects

**BUSINESS RESEARCH UNIT IN DEPT. OF SOCIAL STUDIES.** Establd. 1960 on exper. basis for 5 yrs. to investigate problems in field of indust. organization, with sp. reference to the N.E. region.

**GULBENKIAN MUSEUM FOR ORIENTAL ART AND ANTHROPOLOGY** Opened 1960, Elvet Hall, Durham.

**ADMISSION** See Appendix III

**FIRST DEGREES** (of Univ. of Durham) Courses are provided for degrees of the Univ. of Durham as listed below. 3 yrs.—BA in gen. studies, BA in soc. studies, BA hon. (in classics, Engl., French, geog., German, hist., maths, music, oriental studies, philos., pol. & econ., psychol., Spanish, theol.), BSc in gen. studies (may be awarded with hon.), BSc hon. (in appl. phys., bot., chem., geog., geol., maths, phys., psychol., zool.).

No pt.-time courses.

**HIGHER DEGREES** (of Univ. of Durham) BD, DD, MA, MA(EconStudies), MLitt, MEd, DLitt, MSc, DSc, MMus, DMus, PhD For details, see pp. 982-3

**DIPLOMAS.** Postgrad. univ dipls in anthropol (3 yrs), Arabic (3 terms), biblical studies (3 terms), theol (6 terms), univ inst of educn's dipl in educn. (1 yr.).

**CERTIFICATE.** Univ cert in bibl studies (3 terms).

**ALLIANCE.** Relationship with fac. of letters, Clermont-Ferrand, for annual exchange visits of members of staff, exchange of publications, and possible provision of lectures and lecturers.

**STUDY LEAVE.** There is a scheme by which members of staff may obtain sabbatical leave from time to time.

**FEES.** Annual charges (incl tuition, bd. and lodging, and subs., but excl non-recurrent registration fee of £1) University, Hatfield, Grey and St. Mary's Colls.: caution money, £10; arts, £265; geog., maths and psychol., £272. 10s.; sci., £280. St. Chad's and St. John's caution money, £5; arts, £272. 10s.; geog., maths. and psychol., £280; sci., £287. 10s. Resident students of St. Cuthbert's Soc. pay: arts, £245; geog., maths. and psychol., £242. 10s.; sci., £250. Resident students of St. Aidan's Coll. pay caution money, £10; arts, £256; geog., maths and psychol., £263. 10s.; sci., £271. For fees for matric, exams, and degrees, see under 'Univ of Durham', above.

**AWARDS** open to students entering the Durham Colls. to read for a first degree. 10 Foundation scholrs, or exhibitions are awarded by exam. each

yr. The annual value of a scholr. is £70, and of an exhibition, £40. Other scholrs available are the Peers, £40; Pemberton, £70; Wansborough, £50; Horsfall (3), £40; Chascepher Mather, £40; Organ (2, one each in Univ C and Hatfield C), £40 each; Winifred Foster, £40; Ellerton, £40; Winchester, £40; Hatfield, £40; Harris, £40.

**POSTGRADUATE AWARDS** open to grads. of other univs.; see p. 910.

**GRADUATES' ASSOCIATIONS.** All the colls. in Durham have old students' assocns. under various titles. Further information may be obtained from the sec. of the assocn. at the coll. concerned.

**STUDENT RESIDENCES.** All the colls. provide residential accomm. in coll. In addition, accomm. is available for 30 men students of St. Cuthbert's Soc. in the soc.'s premises in South Bailey.

**STUDENTS' SOCIETIES, CLABS, ETC.** The Durham Colls. students' representative council sponsor a considerable no. of socs. and clubs covering a wide field of activities. The Durham Union Soc. (for men) and the Durham Women's Union Soc. organize debates and lectures by outside speakers and provide club facilities.

**STUDENTS' ATHLETIC FACILITIES.** Two groups of sports grounds are available for outdoor activity, and every coll. has its own boat-house.

**PUBLICATIONS.** *Warden's Report*, *Durham College Handbook* (Sept.), *The New Durham* (students'), *Palatine* (students' newspaper).

## THE YEAR 1961

**PRINCIPAL DEMONSTRATIONS.** Rockefeller Foundation, £10,000 for res. projects in middle east.

**MAJOR BUILDING DEVELOPMENTS.** *Blids completed:* Grey Coll., stage II, observatory bldg; *phys bldg.* *Approaching completion:* Hatfield Coll. gatehouse.

**RESIGNATIONS.** Prof. J. B. Cragg (zool.), apptd dir., Merlewood res. sta., under Nature Conservancy; R. S. Dawson (Chinese), apptd lectr., Oron; Dr. P. A. Evans (music), apptd to chair of music, S'ton.; Josephine M. Ford (sr tutor, St. Mary's Coll.).

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1286	81
Women	320	15
Total	1615	96*

**Distribution by Faculties.** *Arts*, 993, *when*, 146\*; *sci.*, 568, *theol*, 94. Total, 1711.

*Included in the figures above are:—*

Postgraduate students, 311\*

New admissions, 617

Students from other countries, 63 (Countries from which largest numbers came: Nigeria, 12; U.S.A., 6; Sierra Leone, 5; Pakistan, 5).

**DEGREES AWARDED** (by Univ. of Durham) (1960-61). *Arts*: BA, 79; BA honrs, 159; MA, 17; PhD, 6; MLitt, 4. *Educn.*: MEd, 1. *Sci.*: BSc, 14; BSc honrs, 80; MSc, 9; PhD, 15. Total number of first degrees awarded, 523.

**DIPLOMAS AWARDED** (by Univ. of Durham) (1960-61) DipArab, 2, DipEd, 95, DipTheol, 17.

\* Includes MEd candidates, registered and studying in both Durham and Newcastle divisions

[Information compiled as at 31/7/62]

# KING'S COLLEGE, NEWCASTLE UPON TYNE

Founded 1937 by amalgamation of the University of Durham College of Medicine (1852) and Armstrong College (1871)

Postal Address: Newcastle upon Tyne 1, England

Telephones: College—Newcastle upon Tyne 28511

Sutherland Dental School—Newcastle upon Tyne 24176

CHAIRMAN OF COUNCIL—The Rt. Hon. THE VISCOUNT RILEY, CBE, DCL

RECTOR—C. I. C. BOSANQUET, MA Oxon. & Camb., Hon. DCL, (Pro-Vice-Chancellor of the University\*)

SUB-RECTOR—Professor G. H. J. DAYNE, BLitt Oxon.

DEAN OF MEDICINE—Professor A. G. R. LOWDON, OBE, MA MB ChB Edin., FRCSEd, FRCS

REGISTRAR—E. M. BUTTINSON, MA Camb

BURBAR—H. J. M. SCOTT, MBE, BCom

LEBRARIAN—W. S. MITCHELL, MA Edin., PhD Aberd.

## TEACHING STAFF

[†=Part-Time]

<b>Accounting</b>		Brown, H. F., MC, FRIBA		Temp. Lectr.	
Nolan, F. E. V., MA, FCA	Lectr.	Moody, F. A., BArch		†Dir. of Evening Sch.	
		Robson, B. D., BArch		Studio Desgr	
		1 Sr. Res. Assoc			
<b>Agriculture, see below</b>					
<b>Anatomy, see Medicine</b>					
<b>Bacteriology, see Medicine</b>					
<b>Botany, see also Agriculture, below</b>					
<b>Anthropology</b>		Burnett, J. H., MA DPhil Oxon.		Prof.	
Menhard, H. H., DPhil Bonn, FRAI	Reader	Ranson, S. L., BSc PhD (Plant Physiol.)		Reader	
Sheddick, V. G. J., BA Wales, PhD Lond.	Lectr.	Clark, W. A., BSc PhD St. And., FLS		Sr. Lectr.	
Powell, H. A., PhD Lond., FRAI	Lectr.	Fothergill, P. G., BSc PhD		Sr. Lectr.	
<b>Archaeology, see Classics</b>		Richardson, J. A., MSc PhD		Lectr.	
<b>Architecture</b>		Moss, Betty L., MSc PhD Lond., FLS		Lectr.	
Napier, J. H., MA DipTP, FRIBA	Prof.	Walker, T. G., BSc PhD Leeds, FLS		Lectr.	
Allsopp, H. B., BArch DipCD Lond., FRIBA		Cain, R. B., BSc PhD Birm. (on leave)		Lectr.	
Hardy, A. C., MA Camb., BArch DipTP (Bldg. Sci.)	Sr. Lectr.	Thomas, D. R., BSc Wales		Sr. Desgr	
<b>Chemistry, see also Agriculture, below</b>					
Turley, R., MA		Wynne-Jones, W. F. K., BSc Oxon., DSc Wales, FRIC		Prof., Hd. of Dept.	
Spence, C. C., BA	Lectr.	Boddley, J., DSc PhD Manc., FRIC		(Org. C.) Prof.	
Williamson, W. H., MA CertArch	Lectr.	Weiss, J. J., DEng Vienna, PhD Lond.		(Radiation C.) Prof.	
Wharfe, H., DipArch DipT&CP Lond., MA, FRIBA	Lectr.	Greenwood, N. N., MSc Melb., PhD ScD Camb., FRIC		(Inorg. C.) Prof.	
Chalk, D. W., DipArch CertTP Manc.	Lectr.	Thirk, H. R., BSc PhD Lond., FRIC		(Electrochem.) Reader	
Wood, H. S., DipArch DipT&CP Edin., MA	Lectr.	Raper, R., MA PhD Camb., FRIC		Sr. Lectr.	
Wise, D., BArch DipTP	Lectr.				

\* See footnote to p. 981

Aynsley, Rev. E. E., DSc PhD DThPT,

FRIC

Swan, G. A., DSc PhD, FRIC

McQuillan, F. J., MA DPhil Oxon.

Beck, W. H., BSc StAnd

Buchanan, J. G., MA PhD Camb

Holden, D., MSc PhD Manc.

Stadler, H. P., BSc Lond., PhD Leeds

(Phys. C.)

Trenwith, A. B., BSc PhD Lond

Oldham, K. B., BSc PhD Manc.

Fleischmann, M., BSc PhD Lond

Littellwood, A. K., BA Oxon.

Covington, G., BSc R'g., PhD

Scholes, G., BSc PhD

Hughes, N. A., BA PhD Camb

Jones, P., MA BSc Oxon., PhD

Boult, E. H., BSc Lond

(Electron Microscopy)

Lochhart, Joyce C., BSc Glas., PhD Lond

Archibald, A. R., BSc PhD Edin

Perkins, P. G., BSc PhD Natl.

Hardy, F. E., BSc PhD

Bewick, A., BSc PhD Ramsay Memorial Fellow

Morris, J. H., BSc PhD Natl.

Frank Schen Fellow

Kennedy, D. A., BSc Dub.

Sir James Knott Fellow

Briggs, G. W. D., BSc PhD (Phys. C.) Res. Asst.

Dukonsen, T., BSc PhD (Phys. C.) Res. Asst.

Blumson, N. L., MSc PhD Staff

(Org. C.) Res. Asst.

Johnson, G. R. A., BSc PhD

(Radiation C.) Res. Asst.

Kelemen, Marianne V., DPhil Oxon.,

BSc

Lalor, Millican, DrTechSci Belgrade

Downs, A. J., MA PhD Camb.

13 Sr. Res. Assoc.

**Child Health, see Medicine****Classics and Ancient History**

Fletcher, G. B. A., MA Camb.

(Latin) Prof., Hd. of Dept.

Hudson-Williams, H. L., BA Wales,

MA Camb.

(Greek) Prof

Gillam, J. P., MA, FSA

(Roman-Brit. Archaeol.) Reader

Whittick, G. C., MA Oxon

Sr. Lectr.

Sheftan, B. R., MA Oxon.

(Gr. Archaeol. &amp; Anc. Hist.) Sr. Lectr.

Sims, B. J., MA Camb.

Lectr.

Garton, C., MA Camb.

Lectr.

Parker, Laetitia P. E., MA Camb

Lectr.

Armott, W. G., MA PhD Camb.

Lectr.

Lazenby, J. F., MA Oxon (Anc Hist) Lectr.

**Coke Research**

Marsh, H., BSc PhD

Res. Asst.

Hatcher, H., BSc PhD

Res. Asst.

**Computing Laboratory**

Page, E. S., MA PhD Camb., BSc Lond.

Dir.

2 K

Scouin, H. I., MA DPhil Oxon.

Sr. Lectr.

Eve, J., BSc PhD

Lectr.

Elphick, M. J., MSc Manc

Lectr.

Cloves, J. S., BSc

Lectr.

Wright, K., BA Oxon.

Res. Asst.

1 Sr. Res. Assoc., 3 Computer Operators

**Dental Surgery, see below****Divinity**

Boobyer, G. H., BA Bristol &amp; Lond., BD

Lond., DTh Handel. Sr. Lectr., Hd. of Dept.

Vermes, G., DTheol LezenHist&amp;PhilolOr

Louvain

Lectr.

**Economics, see also Acctg.**

Dennison, S. R., CBE, MA Camb. &amp; Durh.

David Dale Prof.

Petch, G. A., BCom Lond

Sr. Lectr.

Watkin, E. E., MA Wales

Sr. Lectr.

Arrth, A. D., BA

Lectr.

Zawadzka, K. K., MA St And.,

MSc(Econ) Lond

Lectr.

Richardson, H. W., MA Manc.

Lectr.

West, E. G., BA For., MSc(Econ) Lond.

Lectr.

Hanson, C. G., MA Camb.

Temp. Lectr.

**Education**

Tuck, J. P., MA Camb.

Prof

McKenzie, A. W., BSc

Sr. Lectr.

Dobson, J. L., MA Med PhD

Sr. Lectr.

Haslewood, Mrs. Doreen C., MA

Sr. Lectr.

Marley, Muriel E., DSc

(Speech) Lectr.

Mittins, W. H., BA Lond

Lectr.

Rockett, K., MA Manc.

Lectr.

Calvert, J. S., BA Brim

Lectr.

Hindmarsh, Irene, MA Oxon.

Lectr.

Anderson, A. C., MA Oxon.

Lectr.

Brown, A.

Lectr.

McCabe, J. J. C., BSc Med

Lectr.

Wade, Helen E., BSc Med

Lectr.

Wallis, P. J., MA Camb

Lectr.

Pearson, Mrs. Doreen, MA

4Temp. Lectr.

Hill, A., MSc

4Temp. Lectr.

Taylor, L. T., TD, MSc

4Temp. Lectr.

**Engineering, Chemical**

Coulson, J. M., MA Camb., PhD Lond

Prof

Thornton, J. D., BSc PhD Bur., FRIC

Reader

Fells, L., MA PhD Camb. (Fuel Sci)

Reader

Goodridge, F., BSc PhD Lond.

Lectr.

Murray, H. D.

Lectr.

Pimbley, R. E., BSc Lond

Lectr.

Peet, K. E., BSc(Eng) Lond.

Lectr.

Porter, J. E., BSc

Res. Asst.

Harker, J. H., BSc

Res. Asst.

2 Sp. Lectrs

**Engineering, Civil**

Cassau, W. F., PhD St And., MS Ill., DipTP,

MICE

Prof.

Isaac, P. C. G., BSc(Eng) Lond., SM Harv.,

MICE

(Pub. Health Engin.) Reader

- Williams, T. E. H., MSc *Wales*, PhD  
(Highway & Traffic Engin.) Res Asst  
Jeffreys Reader  
Cooper, D. W., BSc(Eng) *Leeds*  
(Struct Engin.) Sr Lectr  
Collinge, V. K., DIC, MSc(Eng) *Leeds*  
(Hydraulics & Hydrol.) Lectr.  
Geddes, J. D., BSc PhD  
(Civil Engin. Materials) Lectr.  
Wright, J., MSc (Struct Engin.) Lectr  
Simpson, J. R., SM *M.I.T.*, BSc  
(Pub. Health Engin.) Lectr.  
Constantine, T., BSc *Leeds*, PhD *Manchester*  
(Highway & Traffic Engin.) Lectr  
Biss, R. M., BSc *Edin.* (Civil Engin.) Lectr  
James, A., BSc DipEd  
(Pub. Health Engin.) Res Asst  
Tebbutt, T. H. Y., SM *M.I.T.*, BSc  
(Pub. Health Engin.) Res Asst  
Tech. Officer

**Engineering, Electrical**

- Russell, R. L., DSc *Leeds*, FIP Prof.  
Ritson, F. J. U., MSc Reader  
Brown, J. E., PhD *Sheff.*, BSc Reader  
Willey, C. A., BScTech PhD *Manchester* Sr. Lectr.  
Livingston, E. A., MSc Lectr.  
Short, P., MSc(Eng) *Leeds* Lectr.  
Carter, A. O., MEng *Leeds* Lectr.  
Kennair, J. T., BSc Lectr.  
Holt, A. G. J., DipEl PhD *Stron.* Lectr.  
Dudley, J. L., MScTech *Manchester* Lectr.

**Engineering, Mechanical and Marine,  
see also Naval Archit.**

- Burnall, A. F., MSc *Bern.*, PhD *Cambridge*,  
DSc *Melb.*, Hon. DSc *N.U.I.*, MIMechE  
Prof., Dir. of Stephenson Engin. Labs.  
Chambers, G. H., DSc, MSc, MIMechE  
(Machine Engin.) Prof.  
Munster, L., BSc *Wales*, ScD *Mass.*,  
PhD *Edin.* (Appl. Mech.) Prof.  
Bayley, F. J., MSc PhD (Gas Dynamics) Reader  
Tebbutt, A. C., MSc *Birm.* Sr. Lectr.  
Robinson, F., BSc(Eng) *Leeds*, MIMechE  
Sr. Lectr.  
Gachrist, A., BSc Sr. Lectr.  
Sutton, B. A., MA *Cambridge* Sr. Lectr.  
Jones, A. W., BSc, MIMechE  
(Machine Engin.) Sr. Lectr.  
Booley, E. W., MScTech *Manchester* Lectr.  
Owen, B. S., MA *Cambridge* Lectr.  
Bartley, A. J., BSc Lectr.  
Walker, G., BSc PhD Lectr.  
Lange, J. R. Lectr.  
Poster, B., MA *Cambridge* Lectr.  
Walker, L. A., BSc *Leeds*, PhD *Nottingham* Lectr.  
Biller, R. A., BSc Temp. Lectr.  
Tutor in Tech. Report Writing

**Engineering, Mining**

- Potts, E. L. J., MSc Milburn Prof.  
Jenkins, J. D., MSc *Wales* Reader  
Robinson, H. Y., MSc Sr. Lectr.

- Pearson, G. M., BSc Lectr.  
Bell, W. B., BSc Lectr.  
Turnham, N., BSc Lectr.  
Abel, J. F., EM MSc *Colorado* Temp. Lectr.  
Salomon, M. G., DipMinEng *Supran.*,  
PhD Res. Asst.

**English Language and Literature**

- Ure, F., MA *Leeds* Joseph Cowen Prof.  
Maxwell, J. C., MA *Oxon.* Reader  
Macdonald, A., MA PhD *Edin.* Sr. Lectr.  
Shang, Mrs. Barbara M. H., MA *Leeds* Lectr.  
Gang, T. N., MA BLitt *Oxon.* Lectr.  
Rawson, C. J., MA BLitt *Oxon.* Lectr.  
Wood, R. S., BA *Oxon.*, PhD *Toronto* Lectr.  
McPhee, J., BA Sir James Knott Fellow

**Fine Art**

- Rowntree, K., MA  
Prof., Dir. of Sch., Master of Painting  
Holland, R. B., MA (Hist. of A.) Reader  
Evett, L. C., MA  
Sr. Lectr., Master of Des. & Hd. of  
Evening Sch.  
McCheyne, J. R. M., DipArt *Edin.*, MA  
(Sculpture) Sr. Lectr., Master  
Dalby, Helen A., (Textile Des.) Lectr.  
Dudley, G. M., (Sculpture) Lectr.  
Powell, Mrs. Betty E., (A. Educn.) Lectr.  
Hamilton, R. W., (Des.) Lectr.  
Davy, R. A., BA *Leeds*, (Hist. of A.) Lectr.  
Dobson, E. J., BA (Painting) Lectr.  
Rugg, M. F., BA (Painting) Lectr.  
Campbell, S., MA (A. Educn.) Lectr.  
Collier, Mrs. Mary, BA  
(A. Educn.) Temp. Lectr.  
Hodgson, Louisa, MA (Tech. Method) Teacher  
Parslow, V., CBE, MA (Painting) Lectr.  
Studio Demo

**French Studies**

- Cohn, N., MA *Oxon.*, DLitt *Glasg.*,  
FRHist Prof.  
Delacourcelle, Mrs. Doris W., MA *Cambridge*,  
Litt. DU *Paris* Sr. Lectr.  
Suckling, N. C., MA *Oxon.*, BA *Leeds* Sr. Lectr.  
Dubois, Mrs. Elfrida T., MA *Birm.*,  
DPhil *Paris* Lectr.  
Mason, H. T., BA *Wales*, AM *Vermont*,  
DPhil *Oxon.* Lectr.  
Gardner, Mrs. Jacqueline A. Z., BA *Nottingham* Lectr.  
Short, D. J., BA *Manchester* Lectr.  
Chevallier, Denise, Litt. DU *Paris*,  
Litt. DU *Paris* Lectr.  
Loughnane, C. P., Litt. DU *Paris* Lectr.

**Geography**

- Daysh, G. H. J., BLitt *Oxon.* Prof.  
Coomes, M. R. G., MA DipTf *Manchester*  
(Human G.) Reader  
Houss, J. W., MA *Oxon.* (Appl. G.) Reader  
Anson, W. W., BSc Lectr.  
Fullerton, B., MA *Leeds* Lectr.

Lister, H., PhD *Comb.*, BSc  
(Polar Studies) Lectr  
Sharp, J. I., MA *Comb.*  
(G & Surveying) Lectr

## 2 Demrs

## Geology

Westoll, T. S., DSc *Aberd.*, BSc PhD, FRS,  
FGS J. B. Simpson Prof., Hd of Dept  
Hemmingsway, J. E., BSc PhD *Leeds*, FGS Prof  
Shurley, J., DSc *Mane.*, FGS Sr Lectr  
Robson, D. A., MSc PhD, FGS Sr Lectr  
Randall, B. A., BSc PhD, FGS Sr Lectr  
Bretter, M. H., MSc N.Z., PhD *Comb.*,  
FGS Sr Lectr  
Walker, A. D., BSc *Brnt.*, PhD, FGS Lectr  
Desman, W. R., BSc PhD *Leeds*, FGS  
(Econ. G.) Lectr  
Murchison, D. G., BSc PhD, FGS Lectr  
Jones, J. M., MSc PhD, FGS Lectr  
Lapin, M. A., BSc Sr Demr  
Farnet, N., BSc Sr Demr  
Andrews, Sheila M., BA *Comb.* Res. Asst.  
Miles, R. S., BSc D.S.I.R. Res Fellow  
1 Sr Res Assoc

## German and Scandinavian Studies

Mennace, D. M., MA *Aberd.*, DrPhil *Kiel* Prof  
McFarlane, J. W., MA BLitt *Oxon*  
(G & Norwegian) Sr Lectr  
Sinclair, R. F., MA *Edu.* (G. & Swedish) Lectr  
Ward, A., BA (G & Dutch) Lectr  
Smith, Marjorie, BA (German) Temp Lectr  
Jensen, N. L., CandMag *Copenhagen*, MA  
(Danish) Lectr  
Markland, Margaret, FilMag *Stockholm*  
(Swedish) Lectr  
Lunden, T. I., CandPhil&MagArt *Oslø*  
(Norwegian) Temp Lectr  
Speidel, E., DrPhil *Tübingen* (German) Lectr  
Gahela, Gertrude (German) Lectr  
O'Callaghan, Mrs. Lillemor, FilMag *Lund*  
(Swedish) Lectr  
Stenforth, A. W., BA  
Earl Grey Memorial Fellow

## History, Ancient, see Classics

## History, Modern

Burn, W. L., JP, MA *Oxon.* Prof., Hd. of Dept  
Barrow, G. W. S., MA *St. And.*, BLitt *Oxon*  
(Mediev. H.) Prof.  
Tomkiesoff, Mrs. Olive G., MA LLB *Cambr.*  
BA *Leeds*, FRHist Lectr  
Taylor, Mrs. Joan M., BA *Leeds* Lectr  
Beckingsale, B. W., MA *Comb.* Lectr  
Jones, J. R., MA PhD *Comb.* Lectr  
McCord, N., PhD *Comb.*, BA Lectr  
Fawcett, Mrs. Elizabeth C. H., BA *Mane.*  
†Temp Lectr  
Edwards, B. J. N., BA Sir James Knott Fellow

## Law

Elliott, D. W., LLB Prof.

Hest, E. J., MA BCL *Oxon* Lectr  
Clark, J. B., MA LLB *Cambr.* Lectr  
Stephenson, I. S., MA LLB *Comb.* Lectr  
Hooper, A., BA LLB *Comb.* Lectr  
Matheson, Joan, LLB *Glas.* Lectr  
Mickleburgh, J., LLB *Birm.* Temp. Lectr.  
Cato, B. H., MA *Oxon.*, LLB *Leeds* Lectr  
Chadwin, J. A., MA *Glas.*, BA *Oxon.*,  
LLB *Leeds* †Lectr  
Allan, F. R., MA *Comb.* †Lectr.

## Mathematics

Green, A. E., MA PhD ScD *Cambr.*, FRS  
(Appl. M.) Prof., Hd. of Dept  
Bonsall, F. F., MA DSc *Oxon.* (Pure M.) Prof.  
Pickett, R. L., MA *Comb.* (Stats.) Prof.  
Gilbert, C., BSc PhD *Leeds* (Appl. M.) Reader  
Goldie, A. W., MA *Comb.* (Algebra) Reader  
Mischell, K., BA PhD *Comb.* Sr Lectr  
Harrop, R., MA PhD *Comb.* Sr Lectr  
Evans, D. A., BSc *Burs.*, PhD *Comb.*  
(Stats.) Sr Lectr  
Walker, E. W., MA BSc *Oxon* Lectr  
Wassermann, G. D., BSc PhD *Leeds* Lectr  
Reiter, H., MA PhD *Rice* Lectr  
du Plessis, N., MSc *Rand.*, PhD *Comb.* Lectr  
Carter, R. W., BA *Comb.* Lectr  
Lennox, S. C., PhD *Edu.*, MSc Lectr  
Page, A., BSc *St. And.*, PhD Lectr  
Fox, N., BSc PhD *Leeds* Lectr  
Knops, R. J., BSc PhD *Nott.* Lectr  
Lachlan, A. H., BA *Comb.* Lectr  
Lentle, F. M., BSc *St. And.*, PhD *Mane.* Lectr  
Hayes, M. A., MSc *N. U. I.*, PhD *Brown*  
Temp Lectr

Tomak, D. B. J., MSc PhD *McG.*  
Sir James Knott Fellow  
1 Demr

## Metallurgy

Petch, N. J., BSc PhD *Leeds*, DMet *Sheff.*  
William Cochrane Prof.  
Parkins, R. N., BSc PhD Reader  
Tylecote, R. F., MA *Comb.*, MSc *Mane.*  
PhD *Leeds*, FIM Sr Lectr  
Gilchrist, J. D., BSc PhD *Glas.* Lectr  
Thorley, N., BSc PhD *Leeds*, VIP  
(Metal Phys.) Lectr  
Maxwell, D., MA *Comb.* Lectr  
Hardie, D., BSc PhD Lectr  
Wraith, A. E., BSc *Leeds* Lectr  
Meehan, J. D., BSc PhD *Leeds* I.C.I. Res. Fellow

## Music

Burns, C., MA MusB *Cambr.*, MusDoc *Edu.*  
FRAM Sr Lectr, Dir. of Dept.  
Hudson, F., DMus, FRCO Lectr.  
Barlow, D. F., MA MusB *Comb.* Lectr.

## Naval Architecture and Shipbuilding

Burill, L. C., MSc PhD Prof., Dir. of Res. Labs.  
Emerson, A., MSc (Ship Hydrodynamics) Reader, Asst Dir



Muckle, W., MSc PhD  
 Munro-Smith, R., MSc  
 Townsend, R. L., BSc PhD  
 Chilton, M., MSc  
 Robson, W., BSc(Eng) Lond  
 Leathard, F. L.  
 Mars, G. P.  
 Curry, R. H., BSc

Reader  
 Sr Lectr.  
 Lectr.  
 Lectr.  
 Res Asst.  
 Res. Asst.  
 Res Asst.  
 Res. Asst.

### Social Studies

Lloyd, Alice K., JP, MA Oxon  
 Sr. Lectr., Hd. of Dept.  
 MacLeod, K. D., MA LLB Glas  
 Lectr.  
 Russell, D. C., BA Lond, AM Harv  
 (Sec. Psychol.) Lectr.  
 Watson, Angelica, MA Aberd.  
 (Appl Soc Studies) Lectr.

### Philosophy

Britton, K. W., MA Camb, AM Harv  
 (Mental & Moral P.) Prof  
 Midgley, G. C. J., MA BPhil Oxon  
 Lectr.  
 Strang, C., MA BPhil Oxon  
 Lectr.  
 Locke, D. B., MA N Z, BPhil Oxon.  
 Lectr.

### Physics

Runcorn, S. K., MA Camb, PhD Manc.,  
 FIP Prof., Dir. of Dept.  
 Rushbrooke, G. S., MA PhD Camb.  
 (on leave) (Theoret. P.) Prof  
 Hindmarsh, W. R., MA DPhil Oxon Prof  
 Schneider, E. E., DrPhilNat Frib, MSc,  
 FIP (Solid State P.) Reader  
 Daryshire, O., MSc Manc., FIP Sr Lectr.  
 Ruscoe, R., BSc PhD Lond, FIP Sr Lectr.  
 Littlefield, T. A., BSc PhD Sr Lectr.  
 Torrey, N., BSc PhD Leeds, FIP Sr Lectr.  
 Fowler, G. N., BSc PhD Manc Sr Lectr.  
 Lewis, F. J., BSc PhD Manc. Lectr.  
 Parry, J. H., MA Oxon., PhD Camb.,  
 FGS Lectr.  
 Creer, K. M., MA PhD Camb. Lectr.  
 Teator, D. C., BSc Brist., PhD Camb. Lectr.  
 Gurney, I. D. C., MA PhD Camb Lectr.  
 Wood, P. J., BSc Lond., PhD Lectr.  
 Molynaux, L., BSc PhD (Electronics) Lectr.  
 Nairn, A. E. M., PhD Glas., BSc, FGS Lectr.  
 Hill, R. M., MSc Camb. Lectr.  
 Dolder, K., BSc PhD Lond Lectr.  
 Thomas, E. R., OBE, MA Camb, MSc Water, DCL, J Hon. Lectr.  
 Brown, A. E., BSc Berne, PhD I.C.I. Fellow  
 Collinson, D. W., BSc Manc. (Paleomagnetism) Res. Asst.  
 Gray, P., BSc PhD Lond. Res. Asst.  
 King, W. H., MA DPhil Oxon Sr. Demr.  
 Stone, D. B., BA N.Staffs. Temp Sr Demr.  
 2 Demrs., 4 Sr. Res. Assoc.

### Physiology, see Medicine, below

### Politics

Brown, J. M., MA Glas. Reader  
 Hughes, E. W., MA BLitt Oxon.,  
 LLB Lond. Lectr.

### Psychology

Fisher, G. H., BSc PhD Hull Lectr.  
 Gibbins, K. C., BSc Hull Lectr.  
 1 Sr. Res. Assoc.

### Spanish

Read, K. S., BA Durh & Lond., PhD Reader  
 Blair, Mrs. Jessie M., MA Edin. Lectr.  
 Tynlos, A. L., BA Suff. Lectr.  
 Shergold, N. D., MA PhD Camb. Lectr.  
 Chyng, G. J. G., BA Lond. Lectr.  
 Bayón-Cerdán, J., DenFil&Let Madrid Lectr.

### Speech, see Education, and Child Health

### Surveying

Carmony, P. J., BA Oxon. Reader  
 Sharp, J. L., MA Camb. (Geog. & S.) Lectr.

### Town and Country Planning

Allen, J. S., BArch Lee, FRIBA Prof.  
 Hockett, B., MA (Landscape Archit.) Reader  
 Riley, C. F., DipArch DipTP Manc.,  
 MA Sr Lectr.  
 Taylor, P., PhD DipArch DipCD Lev. Lectr.  
 Thomas, D. L., MA Lectr.  
 Sutherland, A. C., BSc DipArch Glas. Lectr.  
 Melville, I. S., BArch DipCD Lev. Lectr.  
 Roberts, Mrs. Nora, BArch Lev. Lectr.  
 Buckley, R. M. Lectr.  
 Forsyth, A. R., DipTP Lectr.  
 Shall, O. W. Lectr.  
 Cato, B. H., MA Oxon., LLB Lond. Lectr.  
 Dunn, J. F. Lectr.  
 Johnson, D. H. Lectr.

### Zoology

Hobson, A. D., MA Camb.  
 Prof., Hon. Dir. of Dove Marine Lab  
 Bull, H. O., DSc Lond. (Marine Biol.) Reader, Dep. Dir. of  
 Dove Marine Lab  
 Burt, E. T., MA PhD Camb. (Entomol.) Reader  
 Ellenby, C., DSc PhD Lond.  
 Shaw, J., MA Camb. (Plant Nemtol.) Reader  
 Philip, Anna U., DrPhil Berl., MSc Sr. Lectr.  
 Philpott, G. N., BSc PhD Lectr.  
 Percy, Lord Richard C., BSc Lectr.  
 Panchen, A. L., MA PhD Camb. Lectr.  
 Allen, J. A., BSc PhD Lond. Lectr., Zoologist  
 Buchanan, J. B., BSc Aberd., PhD Lond.  
 Lectr., Zoologist  
 Evans, F., BSc Lond. Lectr., Zoologist  
 Stobbs, R. H., BSc PhD Brist. Sr. Demr.  
 Sutcliffe, D. W., BSc PhD Sr. Demr.  
 2 Demrs

# AGRICULTURE AND RURAL ECONOMY

## Agricultural Biochemistry

Armstrong, D. G., MSc PhD, FRIC Reader  
Thompson, A., MSc MS, FRIC Lectr.  
Seely, R. C., MSc Lond. Lectr.

## Agricultural Economics

Carpenter, E. M., MA Oxon. Sr. Lectr., Hd. of Dept.  
Blake, J. G., BA Lectr.  
Brayshaw, G. H., MA Camb Lectr.  
Lord, R. F., BSc(Agric) Lond. Lectr.  
Winter, T., MSc DipAgric Lectr.  
Tansey, A. W., BSc(Agric) Lond. Lectr.  
Robson, S., BSc Lectr.  
Weeks, W. G. R., BSc Lectr.  
Dent, Katharine, BSc Asst. Lectr.

## Agricultural Engineering

Fair, H., BSc Sr. Lectr., Hd. of Dept.  
Reece, A. R., MSc(AgricEng) (on leave) Lectr.  
Grieg, D. J., BSc(Agric) Lectr.  
Wills, B. M. D., BSc MSc(AgricEng) (Farm Mech.) Lectr.  
1 Sr. Res. Assoc. Temp. Lectr.

## Agricultural Entomology

Harrison, G. H., DSc PhD Lectr.  
Hobson, A., BSc BSc., DIC, DipAgric Camb., PhD Lectr.

## Agriculture

Cooper, M. M., BAgSc N.Z., BLitt DipRurEcon Oxon. (A. & Rural Econ) Prof.  
Mann, A., BSc (Est. Management) Sr. Lectr.  
Meardew, J. N., BSc(Agric) Wales, MSc Sr. Lectr., Dir. of Coll. Farm at Nafferton Lectr.  
Richard, M., BSc(Agr) R'g. Lectr.  
MacLusky, D. S., BSc Lond., PhD Gler. Lectr., Asst. Dir. of Coll. Farm at Nafferton Lectr.  
1 Sr. Res. Assoc., 1 Demr.

## Plant Science

Williams, W., DSc Wales Prof.  
Clark, Mrs Helena H., MSc Lectr.  
Hickbourn, F., MS Rutgers, BSc Lectr.  
Hudson, J. H. W., BSc Wales Lectr.

## Soil Science

Arnold, P. W., BSc Wales, MA Camb. Prof.  
Hunter, P., BSc Sr. Lectr.  
PhD Lond.  
Pringle, Joyce, BSc(Agr) PhD Aberd. (Soil Phys.) Lectr.  
1 Demr.

# DENTAL SURGERY

Hallett, Prof. G. E. M., MDS, FDSRCS, FDSRCSed, Dean, Dir. of Dental Studies  
Lovel, R. W., DDS Northwestern, MDS, FDSRCS, FDSRCSed Prof., Clin. Sub-Dean

## Children's Dentistry

Hallett, G. E. M., MDS, FDSRCS, FDSRCSed Prof.  
Weyman, Joan, BDS, FDSRCS Sr. Lectr.  
Porteous, J. R., BDS Lectr.

## Dental Anaesthetics

Park, E. A., OBE, MA MD BChir Camb., FFARCS Prof.

## Dental Electrotherapeutics

Chalmers, J., MBE, JP, FDSRCS †Lectr.

## Dental Jurisprudence and Ethics

Hallett, Prof. G. E. M., MDS, FDSRCS, FDSRCSed Lectr.

## Dental Pharmacology

Walton, J. G., BDS Lectr.

## Dental Prosthetics and Mechanics

Mack, A. O., MDS (Dental P.) Prof.  
McMillan, D. R., FDSRCS Lectr.  
Murphy, W. M., BDS N.U.I., FDSRCS Lectr.  
6 Dental Instrs.

## Dental Radiology

Bennett, G., FDSRCSed †Lectr.

## Medicine

Smart, G. A., BSc MD, FRCP Prof.  
Kellott, C. E., MA MD BChir Camb., FRCP †Lectr.  
Jackson, F. S., BA MB BChir Camb., FRCP †Clin. Teacher  
Richardson, G. O., MA MD BChir Camb., FRCP †Clin. Teacher  
Strang, C., MD BS, MRCP †Clin. Teacher

## Operative Dental Surgery

Lovel, R. W., DDS Northwestern, MDS, FDSRCS, FDSRCSed Prof.  
Allan, D. N., DDS Northwestern, MDS Sr. Lectr.  
Howell, R. A., FDSRCS Lectr.  
Walton, J. G., BDS Lectr.  
Cowell, T. A., BDS Lectr.  
1 Demr.

## Oral Anatomy

Tonge, C. H., TD, MB BS BDS DDS Reader  
Snell, R. S., MD BS PhD Lond. Lectr.

- Oral Physiology**  
 Jenkins, G. N., MSc *Liv.*, PhD *Canb.* Reader
- Oral Surgery**  
 Howe, G. L., MDS, FDSRCS †Prof  
 Hood, F. J. C., BDS Lectr
- Orthodontics**  
 Hallatt, Prof G. E. M., MDS, FDSRCS, FDSRCSed Lectr  
 Littlefield, W. H., BDS, FDSRCSed †Lectr  
 Steel, G. H., BDS, FDSRCS Lectr
- Pathology (Dental School)**  
 Ranae, I., BSc MB ChB *Glas.* Prof  
 Sampson, H. E., MDS (Oral P.) Sr Lectr  
 Jackson, D., BDS (Oral P.) Lectr
- Periodontal Diseases**  
 Howell, R. A., FDSRCS St Lectr
- Practice Management**  
 Stubley, R., BDS Lectr
- Properties of Dental Materials**  
 Murphy, W. M., BDS *NU I.*, FDSRCS Lectr
- Public Dentistry**  
 Robinson, A. E., FDSRCS †Lectr
- Surgery**  
 Lowdon, A. G. R., OBE, MA MB ChB *Edin.*, FRCSEd, FRCS Prof.  
 Jones, J. D. T., MB MS, FRCS †Lectr  
 Breathwaite, F., OBE, MA MB BChir *Canb.*, MSc *Man.*, FRCS †Lectr  
 Black, J. I. M., MD MS, FRCS †Lectr  
 Feaggetter, G. Y., MB MS, FRCS †Clin. Teacher  
 Dickinson, P. H., MSc *Ill.*, MB BS, FRCS †Clin. Teacher
- †Clinical Teachers in Newcastle upon Tyne Dental Hospital:  
 J. E. Daniels, VRD, LDS; G. Johnson, LDS, J. Chalmers, MBE, JP, FDSRCS, H. A. Smith, LDS; W. H. Littlefield, BDS, FDSRCSed, J. B. Masterton, MDS, FDSRCS, G. Bennett, FDSRCSed; A. G. Parnell, FDSRCS; J. H. Farrell, MDS
- MEDICINE**  
 Lowdon, A. G. R., OBE, MA MB ChB *Edin.*, FRCSEd, FRCS Dean  
 Miller, H. G., MD BS, FRCP †Clin. Sub-Dean  
 Smart, G. A., BSc MD, FRCP Postgrad Dean
- Anaesthetics**  
 Pask, E. A., OBE, MA MD BChir *Canb.*, FFARCS Prof.
- Cooper, E. A., MA MB BChir *Canb.*, PhD *Bonn.*, FFARCS †First Asst.  
 Davison, M. H. A., MBE, TD, MD BS, FFARCS †Lectr  
 Houston, J. A. G., MB BS *Lond.*, FFARCS †Lectr.  
 †Clinical Teachers  
 Ayre, T. P., FFARCS  
 Murray, J. L., MB BS  
 Shafts, C. E., VRD, MB BS BDS, FFARCS  
 Mackenzie, A., MB BS, FFARCS  
 Tate, E. I., MB BS, FFARCS  
 Watts, Mrs Sarah B. W., MB BS  
 Wheldon, J. T., MB BS, FFARCS  
 Milne, Mrs Edith J., MB BS, FFARCS  
 Ritchie, B. W. T., MA *Canb.*, FFARCS  
 Houston, Mrs Winifred M., MB BS  
 Inkster, J. S., MB ChB *Aberd.*, FFARCS  
 Temporary Research Assistant  
 Essex, L.
- Anatomy**  
 Scothorne, R. J., BSc MB ChB *Leeds*, MD *Chic. & Leeds* Prof  
 Tonge, C. H., TD, MB BS BDS DDSc (Oral A.) Reader  
 Reader  
 Barlow, T. E., MD ChB *Man.* St Lectr.  
 Gray, J. E., MB BS Sr. Lectr.  
 Snell, R. S., MD BS PhD *Lond.* Lectr.  
 Brown, H. G., MB BS, FRCS Lectr  
 Warrick, C. K., MB BS DMR *Lond.*, FRCSEd, FFR (Radiol. A.) †Lectr.  
 8 Demos.
- Bacteriology**  
 Green, C. A., MD ChB PhD DPH *Edin.* Prof.  
 Ernslie-Smith, A. H., TD, MD ChB *Aberd.* Se. Lectr.  
 Porter, I. A., MB ChB *Glas.* Sr. Lectr.  
 Ernslie-Smith, Mrs. Muriel, MSc Lectr  
 Miller, T. K., MSc DThPT Lectr.  
 Turk, D. C., BM BCh *Oxon.*, MRCP Lectr  
 Rose, A. H., BSc PhD *Birm.* (Bacteriol. Biochem.) Lectr.  
 Constable, F. L., MD BS BSc †Hon. Lectr.  
 Gardner, P. S., MD BS *Lond.* †Hon. Lectr.  
 1 Dem., 1 Asst.
- Cancer Research**  
 Farmer, F. T., BSc(Eng) *Lond.*, PhD *Canb.*, FIP †Hon. Member of Coll. Staff
- Child Health**  
 Court, S. D. M., MD ChB *Birm.*, FRCP James Spence Prof.  
 Miller, F. J. W., MD BS, FRCP (Soc. Pnd.) †Reader  
 Nelligan, G. A., DM BCh *Oxon.*, MRCP Sr. Lectr.  
 Walker, W., MD BS Sr. Lectr.  
 Davison, G., MD BS, FRCP (Clin. Pnd.) †Lectr.

Knox, E. G., MD BS, MRCP Lectr.  
 Raine, D. N., PhD MB BS (Paed. Biochem.) Lectr.

Mosley, Muriel E., DSc (Speech & Speech Pathol.) Lectr.  
 Harris, Mrs. Mary M (Speech Pathol. & Therapy) Lectr.

Cooper, Christine E., MA MB BChir Camb., MRCP

†Clin. Teacher at Newcastle General Hosp. Lectr.

Wilson, S. G. F., MD ChB Edin., MRCP First Asst

†Associate Clinical Teachers  
 Brewis, E. G., VRD, MD BS DPH, FRCP  
 Heycock, J. B., MC, TD, MRCP

Stansfield, J. M., MA MD BChir Camb.  
 2 Sr. Res. Assoc.

#### Dental Surgery, see above

#### Dermatology

Ingram, J. T., MD BS Lond., FRCP Prof.  
 Bolam, R. M., MA MD BChir Camb.

(Clin. D.) †Lectr.  
 Holt, G., MD ChB Leeds. †Hon. Lectr.  
 Stevenson, C. J., MD BS Lond., MRCP

†Clin. Teacher  
 Carr, Angela, BSc Sheff. Res. Asst

#### Diseases of the Ear, Nose and Throat

McGuckin, F., MD BS, FRCS Ed. †Lectr.  
 Black, J. I. M., MD MS, FRCS †Clin. Teacher

Dawes, J. D. K., BSc Oxon., MD BS, FRCS †Clin. Teacher

#### Industrial Health

Brown, R. C., MA DM Oxon., MRCP Nuffield Prof.

McCullum, R. I., MD BS Lond., MRCP Reader  
 Newell, D. J., MA Camb., PhD (Stats) Sr. Lectr.

Lenthart, G. L., MB BChir Camb., MRCP Lectr.

Steel, J., BSc PhD (Occupnl Hyg.) Lectr.  
 1 Chem. Analyst

#### Medicine

Smart, G. A., BSc MD, FRCP Prof.  
 Owen, S. G., MD BS, MRCP Sr. Lectr.

Vallance-Owen, J., MA MD Camb., FRCP †Lectr.

Brewis, E. G., VRD, MD BS DPH, FRCP (Infect. Dis.) †Lectr.

Kear, D. N. S., MB ChB Edin., MSc Wren., MRCP First Asst

Hall, R., BSc MB BS, MRCP First Asst.  
 Ogilvie, A. G., MD BS, FRCP (Clin. M.) †Lectr.

Boon, T. H., MD BS, FRCP (Clin. M.) †Lectr.

Dewar, H. A., MD BS, FRCP (Clin. M.) †Lectr.

Thompson, M., MD BS, MRCP (Clin. Phys. M.) †Lectr.

Thompson, R. B., MD BS, FRCP †Clin. Teacher  
 2 Res. Fellows, 2 Res. Assoc.

#### Midwifery and Gynaecology

Russell, J. K., MD ChB Aberd., FRCOG Prof.  
 Fawcett, D. V. L., MB ChB St. And.

Straier, F. E., VRD, MD BS, FRCS, FRCOG Sr. Lectr.

Smith, L. M., MD MS, FRCS, FRCOG †Lectr.  
 Hunter, W., MD BS, FRCOG †Clin. Teacher

Mallat, D. G., MB BS, FRCS First Asst.  
 †Clin. Teachers at Newcastle General Hosp.

Arthur, H. R., MB BS, FRCS, FRCOG  
 Kerslake, Dorothy M.  
 3 Sr. Res. Assoc.

#### M.R.C. Research Group in Demyelinating Diseases

Field, E. J., PhD Brit., MD MS Sr. Lectr., Dir.

Caspari, E. A., MSc Lond. (Neuro-Chem.) Lectr.

Cunningham, V. R., MSc PhD Brit. (Immuino-Chem.) Lectr.

#### Neurology

Miller, H. G., MD BS, FRCP †Reader  
 Wilton, J. N., MD BS, MRCP †Clin. Teacher

Foster, J. B., MB BS, MRCP First Asst.  
 2 Sr. Res. Assoc.

#### Ophthalmology

Ingram, H. V., OBE, TD, MB BS †Lectr.  
 Lake, L. H., MB BS †Clin. Teacher

Howat, J. M. L., MB ChB St. And., DO Oxon. †Clin. Teacher

#### Orthopaedic Surgery

Stanger, J. K., MB BS, FRCS †Lectr.  
 Robson, P. N., MB BS, FRCS †Clin. Teacher

Bremner, A. E., MB ChB St. And., FRCS †Assoc. Clin. Teacher

Todd, J. V., MB BS, FRCS †Assoc. Clin. Teacher

#### Pathology

Heppleston, A. G., MD ChB Manc., MRCP Prof., Hd. of Dept.

Lutner, A. L., MSc Lond., MD ChB DSc Leu., MRCP, FRIC (Clin. Chem.) Prof.

Herbert, Freda K., MA Camb., MB BS Lond. (Chem. P.) Reader

Schade, R. O. K., MD Tübingen & Durh. Sr. Lectr.

Hart-Mercer, J., MB ChB Edin. Sr. Lectr.

Watson, A. J., MD ChB Aberd. Sr. Lectr.

Field, E. J., PhD Brit., MD MS (Neuro-Pathol.) Sr. Lectr., Dir. of M.R.C. Res. Group

Fenton, J. C. B., MA MB BChir *Cambs*  
(Chem. P.) Sr. Lectr.  
Pennington, R. J. T., BSc PhD *Birm*  
(Chem. P.) Sr. Lectr.  
Dawson, P. J., MA MD BChir *Cambs*  
Lectr.  
McElligott, T. F., MD BCh *N.U.I.*  
Lectr.  
Cesby, C. H., MB BS *Leam*  
(Forensic P.) Lectr.  
Raine, D. N., PhD MB BS  
(Ped. Biochem.) Lectr.  
5 Demrs., 2 Sr. Res. Assoc.

**Pharmacology**

Paolo, H. H. †Lectr.

**Photography**

Duncan, C. J., MA *Cambs*. Dir.

**Physiology**

Harper, A. A., MA MD ChB *Aberd.* Prof.  
Schiffeld, B., MA MD BChir *Cambs*. Reader  
Jenkins, G. N., MSc *Leam*, PhD *Cambs*.  
(Oral P.) Reader  
Wright, D. E., BSc *Leam*, PhD Sr. Lectr.  
Wynne, N. A., MB BS Sr. Lectr.  
Forster, Margaret G., MA BSc *Aberd.*,  
PhD Lectr.  
Falconer, Jacqueline S., BSc *St. And.*,  
PhD *Leam*. (Biochem.) Lectr.  
Lake, H. J., MSc PhD *Birm*. (Biochem.) Lectr.  
Caton, W. T., MSc *Sheff*. Lectr.  
Scratcherd, T., MB BS Lectr.  
Taylor, W., BSc PhD *Edin.* Lectr.  
Blair, E. L., MB BS, MRCPed Lectr.  
Kester, R., BSc PhD *Birm*. Lectr.  
2 Res. Fellows, 1 Sr. Res. Assoc.

**Psychological Medicine**

Roth, M., MD BS *Leam*, DPM, FRCP Prof.  
Smith, F. V., MA *Syd.*, PhD *Leam*,  
FBP&S Consulting Psychologist  
Reader  
Garside, R. F., BSc *Leam*.  
(Appl. Psychol.) Sr. Lectr.  
Orton, R., MD *Leam*, DPM, MRCP Lectr.  
Kay, D. W. K., MA DM BCh *Oxon*.  
†Hon. Lectr.  
Ossolton, J. W., BSc (Electronics) Lectr.  
Gittins, J., OBE, MA BSc *Leam*.  
(Juv. Delinquency) †Lectr.  
Harper, M. A., MB ChB *Birm*. First Asst.  
Psychiatric Social Workers  
Brandon, Mrs. Joanne, BA  
Story, Isabel M.

**Temporary Social Worker**

Wessermann, Mrs. Bertha E.

**Associate Clinical Teachers**

Cuthbert, T. M., DPM  
Child, J. P., MA BM BCh *Oxon*, DPM, MRCP  
McCull, G., OBE, VRD, MD BS

Cobb, Kathleen B., MA *Cambs*, MB ChB  
DipPsych *Edin*  
Connell, P. H., MD BS *Leam*.  
2 Sr. Res. Assoc.

**Public Health**

Pearson, R. C. M., MD ChB *Edin.*,  
DPH *Edin.* & *Glas.*, MRCPed †Lectr.  
Stewart, R. H. M., MD ChB *Leam*  
(Hosp. Admin.) †Lectr.

**Radiology**

Wearick, C. K., MB BS DMR *Leam*, FRCSed,  
FFR †Lectr.  
†Clinical Teachers  
Ramage, D., MD ChB *Leam*, DMRE *Leam*.  
Houston, B. D., MB BS, DMR  
Grypspeedt, G. L., MB BS *Leam*, DMR

**Radiotherapy**

Thurgar, C. J. L., MB BS *Leam*, FRCS †Lectr.

**Surgery**

Lowdon, A. G. R., OBE, MA MB ChB *Edin.*,  
FRCSed, FRCS Prof.  
Walker, F. C., MB ChM *Glas.*, FRCS,  
FRCSed Reader  
Walder, D. N., MD ChB *Birm*, FRCS,  
FRCSed (Exper. S.) Reader  
Scott, J. E. S., MA MD BChir *Cambs*,  
FRCS Sr. Lectr.  
Mason, G. A., VRD, MB BS, FRCS  
(Thoracic S.) †Lectr.  
Rowbotham, G. F., BSc *Leam*, FRCS  
(Neural S.) †Lectr.  
Brathwaite, F., OBE, MA MB BChir *Cambs*,  
MSc *Leam*, FRCS (Plastic S.) †Lectr.  
Swinnery, J., MC, MD MS, FRCS  
(Urol. S.) †Lectr.  
McNeill, I. F., MB BS, FRCS First Asst.  
Hammerley, D. P., BA Med Artist  
†Lecturers in Clinical Surgery  
Feggetter, G. Y., MB MS, FRCS  
Jones, J. D. T., MB MS, FRCS  
†Clinical Teachers  
Hindmarsh, F. D., MB MS, FRCS  
Dickinson, P. H., MSc *Leam*, MB BS, FRCS  
Hankinson, J., MB BS *Leam*, FRCS (Neural S.)  
Edwards, J. R. G., BSc MB BS *Leam*, FRCS  
McEvedy, B. V., MA BM MCh *Oxon*, FRCS  
†Clinical Teacher at Newcastle General Hosp  
Rose, J. D., MB BS, FRCS  
1 Sr. Res. Assoc.

**Venereology and Allied Diseases**

Macfarlane, W. V., MD ChB DPH *Edin.* †Lectr.

**UNIVERSITY EXTENSION**

Dir. of Extra-Mural Studies: B. W. Abrahart,  
JP, MED

Staff Tutors: Elizabeth Carrick, MA Lond; Constance M. Fraser, BA PhD, FRHistS; G. Jobey, DSO, MA, FSA; A. G. Lunn, BSc PhD, A. D. R. Tompkins, BA Leeds, M Litt Camb; W. M. Williams, MA Oxon;

A. G. Wilson, BA Manc; R. D. Harrison, BSc Birm; B. G. Foord, BSc (Econ) Lond; J. H. Bescoby, BA Nott., MA (Econ) Manc; Sec.: A. P. Miller, BCom

## ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S DEPT. Dep. Registrar: D. H. Wilson, BA Oxon (on secondment to the Univ. 1962-63). Asst. Registrars: N. Shott, DFC (st. Med. Sch.); T. R. Saunders, BA Manc.; . . . ; D. M. Allen, MBE, BA Oxon; D. E. Bennett, MA Camb. Admin. Assts: Mrs. Margaret E. Eve, BA Lev.; Barbara M. Latimer, BA Lond. (st. Dent. Sch.). Chief Clerk: G. R. Howe

BURSAR'S DEPT. Finance Officer: T. E. Brown, BCom Lond, DPA. Dep. Finance Officer: L. Scrivener. Asst. Finance Officer: W. Lawson. Cashier: P. L. Darling. Admin. Asst.: Mrs. Monica J. Roberts, BA N. Staffs. Accounts Asst.: J. D. Dawson, A. N. Hunter, E. R. Bell. Estates Officer: R. E. Harris. Asst. Estates Officer: B. Ashford. Estates Asst.: A. Blackburn.

LIBRARY. Dep. Librarian: E. F. Patterson, MA. Sr. Asst. Librarian: Joan M. Gladstone, BA Lond, FLA. Asst. Librarians: Winifred C. Donkin, MA, FLA, Marjorie E. Duff, MA

Chow, FLA, Mrs. Margaret Swan, BSc PhD, FGS, G. M. Budge, MA Manc; Joan S. Emerson, MA, P. Prodmore, BA; C. J. Hunt, BA Ede.

COLLEGE HEALTH SERVICE. Sr. Med. Officer: G. Graham, MB BS Lond.

WARDENS OF HALLS OF RESIDENCE. Women Students: Alfreda M. Truesdale, DipEd Lev., BSc (Ethel Williams Hall), Jean G. Middleton, MA Ede (Easton Hall); Margaret M. Antchison (Sub-Warden, Easton Hall), Men Students: B. E. Q. Smith, BSc (Econ) Lond (Henderson Hall), R. Huscock, MSc (Eustace Percy Hall).

HON. CHAPLAIN. Rev. A. J. Bennett, MA Camb.

WARDEN OF LODGINGS. Mrs. Stella Robinson, BA Leeds.

DEPARTMENTAL ADMIN. ASSTS. Edith Armstrong, BA Lond. (Psychol. Med.), Norah S. Brown, BSc (Chem.), C. M. Bedford, BA Leeds (Fine Art), G. Ashley, BA Suff. (Phys.).

## GENERAL INFORMATION

For a note on the plan for separate notes in Durham and Newcastle, see p. 982

The Newcastle upon Tyne Sch. of Med. & Surg. was founded in 1834, became associated with the Univ. of Durham in 1852 and adopted the title of Univ. of Durham Coll. of Med. in 1870. Armstrong Coll., Newcastle upon Tyne, so named in 1904, was founded in 1871 as the Univ. of Durham Coll. of Physical Sci. In 1937 the two colls. were merged to form King's Coll., Newcastle upon Tyne, in the Univ. of Durham. The univ. court has decided to promote legislation to amend existing Univ. of Durham acts, so as to separate King's College, Newcastle, from the Univ. of Durham and to establish it as an independent univ. It is expected that this legislation will take place during 1963-64.

Income (1960-61) £2,156,947.

DEVELOPMENT OF COLLEGE AREA. Devel. is taking place on a site not far from the city centre, around the original bldgs. of Armstrong Coll. New bldgs. completed since the war include chem. block, Stephenson bldg. (various engn. depts. and maths.), civil engn. bldg., a new arts block, an extension to the chem. block, an extension to library, extension to halls of residence and a new phys. bldg. Work has begun on new bldgs. to accomm. depts. of agric., chem., engn., electr. engn. and maths. Extensions to the students' union are expected to be completed by 1963.

LOCATION OF DEPARTMENTS, etc., not in main college area. Cockle Park Exper. Sta. (agric.), Morpeth, Northumberland; Dove Marine Lab. (zool.), Cullercoats, Northumberland; dept. of educn., 11-13 Leazes Terrace, Newcastle upon Tyne, 1; Nafferton Farm, Stockfield, Northumberland; Sutherland Dental Sch., Northumberland Rd., Newcastle upon Tyne, 1; Close House Estate, Wylam, Northumberland.

LIBRARY, approx. 255,000 vols and approx. 65,000 pamphlets (incl. the med. libraries). There are also dept. libraries. Sp. collections: Heslop, Engl. dictionaries (277 vols.), Marx, philos., math. and general (3946 vols.), oriental, with sp. ref. to India (2762 vols., 2084 pamphlets); Gertrude Bell, oriental (1963 vols.); Robert White (c. 4000 vols.), Engl. and Scottish ballads, border hist.

MUSEUM OF ANTIQUITIES (in assocn. with Soc. of Antiquaries of Newcastle upon Tyne) houses collection of soc. and other exhibits. Opened Oct. 1939. Keeper & sec.: D. J. Smith, BA PhD, FSA.

DEPT. MUSEUMS. Asst., pathol., zool., geol., mineral, chem., mining, anthropol., Roman-British archaeol. Technol. specimens.

LABORATORIES with sp. facilities for res. in mech., marine, civil, electr. and chem. engn.

naval archit., mining and metall.; in chem., phys., geol., bot. and zool. (incl. marine biol. at Dove marine lab.), and in agric. (incl. agric. engin.)

The agric. dept. manages the coll. farm at Nafferton and the coll. exper. sta. at Cockle Park; it also has the use of other country and crown estates for teaching, res. and demonstration purposes.

**COMPETING LABORATORY.** Housed in Newcastle upon Tyne, with a Ferranti Pegasus electronic digital computing machine ('Ferdinand'). The lab. works in close contact with depts. in both divs. and is available for use by interests outside the Univ.

For staff, see p. 993.

#### ADMISSIONS. See Appendix III.

There are reduced requirements for admission to study for the univ. depts. in econ. studies, pub. admin., for the univ. cert. in soc. studies, and for the coll. certs. in archit., fine art, town planning and appl. sci.

Candidates for admission to the cert. in soc. studies course should be over 20.

Inquiries concerning courses should be addressed to the Registrar, King's Coll., Newcastle upon Tyne, 1, students wishing to read med. should write to the Asst. Registrar, the Med. Sch., King's Coll., and dent. surg. to the Admin. Asst., Sutherland Dent. Sch., Northumberland Rd., Newcastle upon Tyne, 1.

**FIRST DEGREE (of Univ. of Durham).** The coll. provides courses for degrees of the Univ. of Durham as listed below. 3 yrs.—BA (hons. may be taken in Latin & Greek, Latin lang. & lit. [with Greek to final gen. standard], candidates who have been awarded hons. may subsequently take a 1-yr. course leading to hons. in Greek), maths., Engl. lang. & lit.; French; German; French & German, Spanish & Latin-American studies, Spanish & French, Spanish & German, Scandinavian studies, med. hist., geog., anthropol.; geog. & anthropol.; philos., philos. & psychol.; Engl. & philos.; econ. & geog., econ. & anthropol.; pol. & econ., pol. & anthropol., music). Also 3 yrs.—BA in econ. studies (3 or 4 yrs. for hons.), BA in social studies, LL.B. (3 or 4 yrs. for hons. in maths. [pure & appl.]; phys., chem., geol., geog., zool.; bot., physiol.), BSc in agric. (4th yr. for hons.), BSc in appl. sci. (4 or 3 yrs. for hons. in chem., engin., civil engin., electr. engin., marine engin., mech. engin., metall., mining engin., naval archit.). 4 or 5 yrs.—BA in fine art. 4 yrs.—BA hons. in land use studies. 5 yrs.—BA in archit. studies and BAArch. 6 or 5 yrs.—BDS, MB BS.

There is a prelim. 1-yr. year for students who have not specialized in sci. at sch. but who now wish to read for a 1st degree in sci.

**HONORS DEGREE.** Facilities for res. for higher degrees of the Univ. of Durham (see pp. 982-3). 2-yr. course in agric. engin. for MSc.

**TUTORIAL SYSTEM.** Each non-med. student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests. The deans of the med. and dent. schs. perform similar duties for med. and dent. students.

**CLINICAL INSTRUCTION.** Instrucon. in clin. med. and surg. is given in the Royal Victoria Infirmary (850 beds) and other hosp., in practical midwifery and clin. gynaecon. at the Princess Mary Maternity Hosp. and Newcastle Gen. Hosp., in clin. dent. surg. in the Newcastle upon Tyne Dental Hosp. The pathol. museum provides an exceptional collection of specimens prepared by modern methods. Postgrad. med. and dental teaching is supervised by citreos representing the coll. and assoc. hospes. Res. facilities are available in the various depts.

**UNIVERSITY DIPLOMAS.** Edcon (DipEd) or art edcon. (but teacher's dipl.) (1 yr. after graduation), anthropol. (usually 2 yrs. after graduation), archit. (5 yrs.), town planning (1 yr. after cert.), landscape design (1 yr.); econ. studies (2 yrs.); pub. admin. (2 yrs.); pub. health engin. (1 yr. postgrad.); highway & traffic engin. (1 yr. postgrad.), appl. electronics (1 yr. postgrad.), electr. power engin. (1 yr. postgrad.); pub. health (pt.-time, 5 terms postgrad.); psychol. med. (pt.-time, 2 yrs. postgrad.); biol. studies (postgrad., full-time, 1 yr.; pt.-time, 2 yrs.); foreign langs.; numerical analysis & automatic computing (1 yr.).

**UNIVERSITY CERTIFICATES.** Biblical studies (postgrad., 2 yrs. pt.-time or 1 yr. full-time), soc. studies (2 yrs.).

**COLLAGE COURSEWORKS.** Appl. soc. studies (1 yr. postgrad.); fine art (2-3 yrs. pt.-time), archit. (5 yrs. pt.-time), town planning (1-2 yrs. full-time or 2-3 yrs. pt.-time, according to qualis), pub. health engin., highway & traffic engin., street design, prodn. engin., fuel technol., electronics, electr. power engin., coal preparation, ore dressing (each 1 yr. postgrad.).

**OTHER COURSES, ETC.** Dept. of fine art. exhibitions at Hulton gallery, evg. courses in many subjects. Dept. of music. concerts and recitals. Dept. of econ. studies. intending accountants may obtain exemption from professional inter. exam. by taking certain subjects in BA course.

**RESEARCH.** In addn. to facilities indicated above (under 'Laboratories' and 'Clinical Instruction'), there are facilities for res. in various arts depts. Res. publications by staff are listed, usually in Rector's Report.

**Fees.** Other than med. The following annual fees cover tuition, registration (£2 p.a. for full-time students), matric., library and examns. (as shown under Univ. of Durham, above), but do not incl. fees for re-exam. and graduation, nor for students' socs. and univ. union (£8 p.a.), BA or LL.B. £60; BSc in pure sci., engin., naval archit.,

mining, metall or agric. £75 (for BSc honours geog. or maths. the fee for the final 2 yrs is £63 p.a.); BA in archt studies and BArch, £60, BA honours, land use studies, £60. Postgrad study or res. with lab. facilities, £75, without lab. facilities, £60. Dipl. and cert courses: educn., £60, Univ. Inst. of Educn. art teacher's dipl., £60, anthropol., £60, soc. studies, £60, appl. soc. studies, £69; bibl. studies, £60, econ. & pub. admin., £60, archt. dipl., £60; town planning, £60; landscape design, £60, 4p courses in appl. sci., £75, agric. engin. (MSc), £75. Expenses on field work will be incurred to the approx. amount stated in each yr. in which the following subjects are taken: agric., 1st-2d students 15s, other students £2 10s, not for students in arts, sci. and agric., £10 (level I and 1st-yr agric. students £2 10s, other students £12), geol., £10, geog., 1st-2d students £8, other students £12, with additional expenses for honours students preparing regional dissertations or for field work abroad, geol., 1st-yr students £4, other students £15 15s, surveying (for undergrad. students), £15 15s; advanced surveying (for geog. students), £15 15s, mine surveying, £25, mining (tour of mines and collieries), £25.

**Fees of stud.** The following fees are annual, except where stated, and cover tuition, registration, matric., library and exams (or shown under Univ. of Durham, above), but not ex-*amina*, graduation, or students' socs. or univ. union (£6 p.a.) or subs. to med. & dent. societies (11s.). Systematic, practical and clin. instructn., med., £75; dent., surg., £75, dipl. in pub. health, £14 (per term), dipl. in psychol. med., £25 (pt. I, 2 terms pt. time), £50 (pt. II, 4 terms pt. time). Various incidental fees are also payable.

For fees for matric. and degrees, see under Univ. of Durham, above.

**UNIVERSITY EXTENSION** KING'S COLL. DEPT. OF EXTRA-MURAL STUDIES. Tutorial classes in various centres (most of the tutors are regular members of coll. staff). Provision made for educn. of national service men, who have higher educn. qualif., stationed in the area of univ. Extension lectures also given within this area.

**POSTGRADUATE AWARDS** open to graduates of other univs.: see p. 910.

**RESEARCH FUNDS.** Various funds for the en-

couragement of res. are administered by the council of the coll., from these have been established res. fellowships such as the Sir James Knott fellowships and the Wilfred Hall fellowship. There are also available at the med. and dent. schs. several funds for med., surg. and dent. res., e.g. William Dodds, J. W. Lucecock.

**RESIDENCES** (For wardens, see 'Admin. and Other Staff', above). For women (fees, £150 p.a.) Easton Hall, Eskdale Terrace, Newcastle upon Tyne, 2 (tel. Newcastle 81-2507), 75 students; Labeil Williams Hall, Eyfield Rd., Longbenton, Newcastle upon Tyne, 7 (tel. Newcastle 66-2114), 183 students. For men (fees, £150 p.a.) Henderson Hall, Radhall Drive, Newcastle upon Tyne, 7 (tel. Newcastle 66-1900), 320 students; Gustave Percy Hall, Freeman Rd., Newcastle upon Tyne, 3 (tel. Newcastle 5-4001), 500 students.

**STUDENTS' SOCIETIES, CLUBS, LTD.** There are a large number of students' socs. and clubs covering a wide range of interests and activities. The King's Coll. students' representative council exists to promote these interests and activities, and the union soc. provides a centre for social contacts and for various student amusements.

**STUDENT ATHLETIC FACILITIES** There are a sports grounds, a boat-house and a gymnasium, providing for all forms of athletic activity, both indoor and outdoor.

**PUBLICATIONS** Rector's Report, King's Coll. Handbook; *Prospectuses* of all depts.; King's Coll. dept. of agric. (farm econ. branch) Reports, 10s. p.a. or 25s. for 3 yrs.; *Journal of the King's Coll. Agric. Soc.*, 3s. 6d. per no.; King's Coll. dept. of civil engin. *Bulletin* (from 1s. to 5s. per no.); King's Coll. *Engin. Soc. Journal*, 1s. per no.; King's Coll. *Geog. Soc. Journal*, 3s. per no.; King's Coll. *Mining Bulletin*, £1: 1s. p.a.; King's Coll. *Mining Soc. Journal*, 3s. per no.; Univ. of Durham *Philos. Soc. Practitioner*, 1s. per no.; *Planning Outlook* (dept. of town & country planning), 15s. p.a.; Univ. of Durham *Mail Gazette*, 7s. 6d. p.a.; *King's Courier* (students' newspaper), 3d. per no.; King's Coll. S.R.C. *Students' Handbook and Diary*; Earl Grey memorial lectures, 2s. 6d. per copy, William Henry Charlton memorial lectures, 4s. 6d. per copy.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. approaching completion: extensions to Henderson Hall men's hall of residence.

**NEW CHAIRS.** Medieval hist., inorg. chem.; and chair of geol., and chair of phys., appl. mech. Personal chairs: agric. chem. (B. Thomas), clin. chem. (A. L. Latner).

**RETIREMENTS.** W. S. Patterson (chem. engin.); Prof. M. Thomas (bot.).

**REIGNATIONS** N. Cairns (stat.), apptd. prof. of stat., Pitt.; D. W. Collins (maths.), apptd. lectr. in maths, Manc.; J. W. Crofts (maths.), apptd. prof. of maths, Leeds; N. Dees (extra-mural studies), apptd. dir. of dept. of extra-mural studies, Glas.; G. Eason (maths.), apptd. sr. lectr. in maths, R.C.S.T., Glasgow; R. Hide (phys.), apptd. prof. of geol. & geophys., M.I.T.; Helena E. Hughes (nursing & gynaeol.); Prof. D. T. Jack (econ.), apptd. chairman, Air



Transport Licensing Bd., D. B. Learning (surg.), apptd. sr. lectr. in surg., Q'ld.; P. C. J. Payne (agric. engin.), apptd. principal, Nat. Coll. of Agric. Engin., P. W. Price (asst. sec.), apptd. clerk, fac. of med., Glas.; Mrs. Laureen C. D. P. Rame (pathol.), J. R. Ringrose (maths.), apptd. lectr. in maths., Camb.; P. H. Roberts (phys.), apptd. prof., Yerkes Observatory, Wis.; D. J. Tibbe (surg.), apptd. consult. surg., Radcliffe Inf., Oxford; R. F. Todd (admin. asst.), J. D. Weston (maths.), apptd. prof. of maths., Swansea.

DEATHS: E. Crompton (agric. chem.); R. E. Dodd (chem.).

#### Statistics

	STUDENT NUMBERS, 1961-62	
	(as at the beginning of the academic year)	
	Full-Time	Part-Time
Men	3043	330
Women	933	300
Total	3976	430*

Distribution by Faculties: Agric., 171; appl. sci., 695; arts, 1328; dent. surg., 261; econ. studies, 175; educn., 220\*; law, 130; med., 506; sci., 920. Total: 4415.

\* Includes MEd candidates, registered and studying in both Durham and Newcastle divisions

Included in the figures above are —

Postgraduate students, 605.\*

New admissions (full-time), 1372.

Students from other countries, 449 (Countries from which largest numbers came: Nigeria, 48, India, 39, Norway, 29, Germany, 24)

DIPLOMAS AWARDED (by Univ. of Durham) (1960-61): Agric. BSc(Agric), 36; BSc(hons), 4, MSc(Agric), 1, PhD(Agric), 3. Appl. sci.: BSc, 91, BSchons., 115, MSc, 6, MSc(Agriculture), 9, PhD, 8. Arts: BA, 99, BA(hons), 113; BArch, 2, BACh(hons), 7, BCL, 1, MA, 5; PhD, 1. Econ. studies: BA, 21, BA(hons.), 17, MA, 1. Educn.: MEd, 2. Law: LLB(hons), 22. Med (incl. dent. surg.): MBBS, 72, MBBS(hons), 3, MS, 1, MD, 6, PhD, 2, BDS, 34, BDS(hons), 2; MDS, 2. Sci.: BSc, 30, BSc(hons), 131, MSc, 5, PhD, 26. PhD (all facs.): 40. Total number of first degrees awarded, 799.

LECTURES AWARDED (1960-61): Dent. surg (LDS), 25.

DIPLOMAS AWARDED (1960-61): Archt., 6, art teacher's, 5; bibl. studies, 1; educn., 130; foreign langs., 1; highway & traffic engin., 4; landscape design, 8; psychol. med., 12; pub. health engin., 2; town planning, 11.

CERTIFICATES AWARDED (1960-61): Univ. certs.: bibl. studies, 5; soc. studies, 3.

# UNIVERSITY OF EAST ANGLIA

Postal Address Earlham Hall, Norwich, NOR 05G, England  
Telephone Norwich 53104

CHANCELLOR-DESIGNATE—The Rt. Hon. THE VISCOUNT MACKINTOSH OF HALIFAX, Hon. LLD Leeds, JP  
VICE-CHANCELLOR—F THISTLETHWAITE, MA Camb  
RECTOR—G A CHADWICK, BSc Lond  
ESTATES BURSAR—J F CORY DEKON, TD  
FINANCE OFFICER—B. S. SYLVENSON, BA Oxon  
LIBRARIAN—W. L. GUTTMAN, MSc Lond

## TEACHING STAFF

<b>Biology</b>	<b>Economics</b>
Bennet-Clark, T. A., BA PhD Camb., MA Dwb Prof.	Ross, C R, MA Oxon. (from Sept. 1963) Prof.
Dewey, J., MA Camb, DSc Edw (from Sept. 1963) Prof	<b>English</b>
Devies, D. D., BSc PhD Lond. Reader	Watt, I P, MA Camb Prof
<b>Chemistry</b>	
Katritzky, A. R., MA DPhil Oxon (from Sept. 1963) Prof	

## ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S OFFICE Asst. Registrar J. M. Brewin, MA Camb Admin. Asst. G M C Anwyl Burton, MA Oxon, Dep. Estates Bursar: G. H. Marshall, BSc(EstMan) Lond. Vice-	Chancellor's Sec. Patricia O. Whitt. Registrar's Sec. H. Susan Sandland LIBRARY. Sr Asst. Librarians: Elizabeth Fudakowska, BA Lond.; J. Thompson BA Durk.
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## GENERAL INFORMATION

The first serious proposal that there should be a univ at Norwich was made in 1910. Further attempts to found a univ. were made after both world wars but they failed owing to lack of adequate support. The proposal was revived in 1958 and at the beginning of 1959 a promotion citée was formed representing a wide range of interests in Norfolk and Suffolk. An applicn. was made to the Univ. Grants Citée and in April 1960 the estab. of the univ. was officially approved. An academic planning bd for the univ was appd. in July 1960 under the chairmanship of Dr C. H. Wilson.

**CONSTITUTION** A petition for a royal charter of incorporation will be presented in 1962-63. The univ will award its own degrees from the start.

**INCOME** The county authorities of Norfolk, E and W Suffolk, and Huntingdonshire, to-

gether with the councils of Norwich, Ipswich, Yarmouth and Lowestoft, have together contributed an annual sum of about £50,000. The Isle of Ely has also made a contribution. A public appeal was launched in May 1962 with a target of £1½ million.

**DEANS** Arts studies are organized into schs, e.g. Engl. studies, European studies, social studies, and other schs. will be estab. in due course. Each sch is presided over by a dean: Engl. studies, Prof. I. P. Watt, soc studies, Prof. C. R. Ross. In the area the organization will be similar: bus studies, Prof. T. A. Bennet-Clark, chem. sci., Prof. A. R. Katritzky.

**SITE AND BUILDINGS.** All the permanent bldgs. will be erected on the univ site at Earlham, about a mile from Norwich city centre. The site totals 165 acres and was given by the Norwich corporation as a free gift. The first bldg. phase will

commence during 1963, teaching during 1963-64 being carried out in Earlham Hall, leased to the Univ. by the corporation, and in temp. premises.

**ADMISSION.** See Appendix III.

**FIRST DEGREE.** Arts courses will be of 3 yrs' duration, leading to an honours degree of BA. There will be schs. of Engl. studies, European studies and social studies, and for the first yr. courses in all schs. will be designed broadly, narrowing to greater specialization in yrs. 2 and 3. Studies will be as closely integrated as possible. In 1963-64, only a course in the sch. of Engl. studies will be

offered. BSc degree studies will incl. biol., chem., maths. and phys., and will be of 3 yrs' duration. In 1963-64, only a course in the sch. of biol. scis. will be available.

**HIGHER DEGREE.** 4th-yr. course leading to MA will be available for those students who show special promise. Candidates for PhD can be accepted, the normal period of study being 3 yrs.

**STUDENTS.** The first undergrads. will be admitted in Oct. 1963 to the schs. of Engl. studies and biol. scis.

**PUBLICATIONS.** *Prospectus*

# UNIVERSITY OF EXETER \*

Founded 1955, previously established as the University College of the South West of England, 1922

Postal Address Exeter, England

Telephone Exeter 77911

VISITOR—H M THE QUEEN

CHANCELLOR—THE DOWAGER DUCHESS OF DEVONSHIRE, GCVO, CBE, Hon. LL.D.

PRO-CHANCELLOR—B. G. LIMPARD-VACHET, CBE, JP, MA Camb, LL.B. Lond, Hon. LL.D.

VICE-CHANCELLOR—Sir J. W. COOK, DSc PhD Lond, Hon. Sc.D. Irb, Hon. DUKhonor, Hon. DSc Nig., FRIC, FRS

DEPUTY VICE-CHANCELLOR—Professor F. BARLOW, MA DPhil Oxon

TREASURER—R. W. TURNER, MA LL.M. Camb.

SECRETARY—R. ROSS, MA(Admin) Manc.

ACADEMIC REGISTRAR—A. G. BARTLETT, MA Camb.

LIBRARIAN—L. J. LLOYD, MA Camb, FRSL, FSA

## TEACHING STAFF

(†=Part-Time)

### Botany

Caldwell, J., DSc Glas, PhD Glas, & Camb.

Prof

Willinson, J., PhD Darb, FLS

Se. Lectr

Proctor, M. C. F., MA PhD Camb

Lectr.

Tan, S. A. J., BSc PhD Lond

Lectr.

Ivimey-Cook, R. B., BSc PhD Wales

Lectr.

Pritchard, G. G., MSc NZ, PhD Camb

Lectr.

Robb, Sheila M., BSc Aberd.

Res Asst.

Stubbs, H. W., MA Oxon

Lectr.

Fittion, J. W., MA BPhil Oxon

Lectr.

Ridgwell, Ann E., BA Lond

Lectr.

Harvey, F. D., BA Oxon

Asst Lectr

### Economics (Agricultural Economics)

Exeter Province

Morris, S. T., MSc Wales

Se. Lectr.

Reynold, V. H., BSc(AgricEcon) Wales

Lectr.

Lewton, H. W. B., BSc(Agric) Lond,

DipAgricEcon Oxon

Lectr

Cole, Helen M., BSc(Econ) Lond.

Lectr.

Davies, E. T., BSc(Agric) Wales

Lectr.

Davies, G. D. D., BSc(AgricEcon) Wales

Lectr

Langley, I. A., MSc(Agric) Lond

Lectr

Richard, R. C., BSc(Econ) Lond

Lectr

Dunford, W. J., BSc(Econ) Lond

Lectr

Bradley, J., BA Brit

Lectr

Balogh, D., BScD Staged

Lectr

Tyler, K. G., BSc(Agric) R'dg

Se. Investigating Officer

1 Res Fellow

Se. Investigating Officer

### Economics and Public Administration

Sykes, J., OBE, MA PhD Leeds, MCom Manc.

Prof., Hd. of Dept

Walker, D., MA Camb.

Prof.

Burton, H., MA Oxon.

Se. Lectr

Meyer, F. V., BSc(Econ) PhD Lond

Se. Lectr

Williams, A. H., BCom Bux.

Lectr

\* Member of the Association of Universities of the British Commonwealth

1967

U.K.—ENGLAND

- Corner, D. C., MA BPhil Oxon, Lectr  
PhD *Shuff*  
Hanson, P., BA Camb. Asst. Lectr  
Penney, K. J., BA Asst. Lectr  
Steer, W. S., LLB Lond, DPA (Pub. Admin.) Sr. Lectr  
Dunne, A., MA Edin (Pub. Admin.) Lectr  
Crabtree, D., BSc(Econ) Lond (Pub. Admin.) Lectr  
Fletcher, P. J., BSc(Econ) Lond (Pub. Admin.) Lectr  
Stanyer, J., BA BPhil Oxon (Pub. Admin.) Asst. Lectr  
Oliver, F. R., MA Camb., DPhil Oxon. (Econ. & Soc. Stats) Lectr  
Lewes, F. M. M., BSc(Econ) Lond (Econ. & Soc. Stats) Asst. Lectr  
2 Res. Assts.

## Education

- D'Aeth, R., AM Harv, PhD Camb. Prof  
Collins, D. C., MA PhD Lond. Sr. Lectr  
Burling, T. J., MA Harv Lectr  
Ress, Isabel G. T., MA Aberd. Lectr  
Winter, H. J. J., DSc PhD Lond. Lectr  
Hoard, Margorie L., BA Brit, BLitt Oxon. Lectr  
Hill, C. P., MA Oxon. Lectr  
Tobin, D. G., MA Oxon. Lectr  
Staniland, A. C., BA Lond, PhD (Visual E.) Lectr  
Fairclough, H. D., (Phys. & Health E.) Lectr  
Goodwin, Doreen V., (Phys. & Health E.) Lectr  
Lytton, H., BA Lond, MA Liv. (Educ. Psychol.) Lectr

## English

- Merchant, Rev. W. M., MA D Litt Wale. Prof  
Crutwell, M. J. P., MA Camb. Sr. Lectr  
Spears, J. H., BA Camb., MA Aberd. Sr. Lectr  
Devier, Kathleen M., BA Lond. Lectr  
Suddaby, Elizabeth, MA Oxon. Lectr  
Mason, H. A., BA Lond, MA Oxon. & Camb. Lectr  
Hill, A. G., MA St. And., BLitt Oxon. Lectr  
Hunt, J. D., MA Camb. Asst. Lectr  
Salter, K. W., MA Brit. (overseas students) Tutor  
Parkinson, R. N., MA Camb. (overseas students) Lectr  
Lloyd, Mrs. Vera (overseas students) †Lectr.

## French with Spanish

- Nikissa, R., BA PhD Lond., L&L Lillo Prof.  
Yarrow, P. J., MA Camb., DUParis Sr. Lectr  
Duthie, Enid L., MA St. And., DUParis Lectr  
Wilson, Alison, MA Dub., L&L DUParis Lectr  
Fox, J. H., BA Lond., DUParis Lectr  
Fox, Mrs. Jacqueline E., L&L Paris †Lectr.  
Boad, J. D., BA Lond. Lectr.  
Jenkins, C., MA PhD Dub. Lectr.  
Runnalls, G. A., BA Asst. Lectr.

- Trotter, G. D., MA Dub. (Spanish) Lectr  
Albrecht, J. M., Dent. Let. Madrid (Spanish) Lectr.  
2 French Assts., 1 Spanish Asst.

## Geography

- Davies, A., MSc Wale. Reardon Smith Prof.  
Shooter, A. H., MA Manc., PhD Lond., FSA Montefiore Reader  
Ravenhill, W. L. D., MA Wale, PhD Lond. Sr. Lectr  
Patterson, Mrs. Ethel J., MA Law, PhD Lond. Lectr  
Johns, E. M., MA Camb. Lectr  
Revesz, T., PhD Bud. Lectr  
Gregory, K. J., BSc PhD Lond. Asst. Lectr

## Geology

- Sampson, S., MA Camb., D. Rer. Nat. Prae., FGS Prof.  
Coe, K., BSc Lond., MA PhD Dub. Lectr  
Stone, M., BSc Liv. Lectr  
Schwood, E. B., BSc PhD Brit. Lectr  
Thomas, J. M., BSc PhD Lond. Asst. Lectr.

## German

- Garland, H. B., JP, MA PhD Camb. Prof.  
Garland, Mrs. Hertha M. L., BA Lond. Lectr  
Coupe, W. A., BA PhD Camb. Lectr  
van Rost, Hazel, MA Lond. Asst. Lectr  
Richards, D. J., MA BLitt Oxon. (Russian) Lectr.  
1 Russian Asst.

## History

- Barlow, F., MA DPhil Oxon. Prof.  
Hamcock, W. D., JP, MA Brit., BLitt Oxon. Sr. Lectr  
Greenaway, G. W., MA Camb. Sr. Lectr  
Fox, Lady Aileen, MA Camb., FSA. (British Archael.) Sr. Lectr  
Jacobs, D., MA Camb. †Lectr.  
Youngs, Joyce, BA PhD Lond., FRHistS Lectr.  
Clapp, B. W., BA Lond. Lectr  
Hennessy, C. A. M., MA DPhil Oxon. Lectr  
Eyck, U. F. J., MA Oxon. Lectr  
Fisher, H. E. S., BSc(Econ) PhD Lond. Lectr  
Wolfe, B. P., MA DPhil Oxon. Lectr  
Murphy, J. E., Slide Dip. (H. Fine Art) Lectr.

## Law

- Parker, C. F., MA LLB Camb. Bracton Prof.  
Roberts, C. H., MA Oxon. Sr. Lectr  
Hall, J. S., MA LLB Camb. Lectr  
Connelly, C. J., LLB Lond. Lectr  
Lusk, D., L&L Dr. Prob., LL.M. Dub., PhD Lond. Lectr  
Eashaw, E. Y., LLB MA Dub. Lectr  
Bridge, J. W., LL.M. Brit. Asst. Lectr.

## Mathematics

- Price, A. T., DSc Manc. (Appl. M.) Prof., Hd. of Dept.

Rees, D., MA ScD Camb. (Pure M) Prof	Sociology	
Mullholland, H. P., MA PhD Camb. (Analysis) Reader	Mitchell, G. D., MBE, BSc(Econ) Lond.	Prof
Mallison, H. V., MA Camb., BSc Lond.		Sr Lectr
Williams, J., MSc Wales, PhD Lond.	Collard, M. Pauline, BCom Lond.	Lectr
Button, Lillian G., MSc Lond.	Hewitt, Margaret, BA PhD Lond.	Lectr
Hammond Smith, D., MA PhD Camb.	Cormack, Una M., MA Oxon.	Lectr, Tutor
Stone, D. J., MSc Lond. (Mathl. Stats)	Fox, J. R., BSc(Soc) Lond.	Lectr
Klein, G., MSc PhD Lond.	Mattinson, Mary J., BA Lond.	Asst Tutor
Duller, G. A., BSc Lond.		
Macdonald, I. G., MA Camb.	Spanish, see French with Spanish	
Baumont, G. P., MA MSc Lond. (Mathl. Stats)	Theology	
Tupper, B. O. J., BSc PhD Lond.	Porter, Rev. J. R., MA Oxon.	Prof
Copping, J., BA PhD Lond.	Moreton, Rev. M. J., BA Lond., MA Oxon.	
Housley, B., BSc Sheff.		†Lectr.
(Computing) Asst. Lectr	Balmforth, Rev. Canon H., MA Oxon.	†Lectr
	Jalland, Rev. T. G., DD Oxon.	†Lectr
<b>Music</b>	<b>Zoology</b>	
Moore, R., BMus Durh., FRCO	Harvey, L. A., DIC, MSc Lond.	Prof
	Hawes, R. S. J., BSc PhD Lond., FLS	Lectr
<b>Philosophy</b>	Vickers, G. G., MSc Sheff.	Lectr.
O'Connor, D. J., MA Clac., PhD Lond.	Linn, I. J., BSc Edin.	Lectr
Keene, G. B., BA Birw., BPhil Oxon.	Sleigh, M. A., BSc PhD Brst.	Lectr.
Hudson, Rev. W. D., MA BD PhD Lond.	Wootton, R. J., BSc PhD Lond.	Asst Lectr
<b>Physics</b>	INSTITUTE OF EDUCATION	
Conn, G. K. T., MA Aberd., BA PhD Camb.	D'Aeth, Prof. R., AM Harv., PhD Camb.	
Grew, K. E., DSc Birw., PhD Birw. & Camb., FIP	Butler, C. D., DIC, MA MSc(Eng) Lond.	Actg. Dir
Weekes, K., BSc MA PhD Camb. (Geophys.) Reader	Perry, G. W., BSc(Educ) Boston, MED Harv.	Staff Tutor
Lothian, G. F., MA Oxon., FIP	Ross, A. M., BA PhD Lond.	Lectr
Drabble, J. R., BSc PhD Lond. (Solid State P.) Sr. Lectr.	Turner, J. D., MA Manc.	Lectr
Portman, N. A., BSc Lond.	Covens, A. B., OBE, MA Camb.	Admin. Tutor
Flack, F. C., BSc PhD Lin.		
Rosser, W. G. V., MSc PhD Manc.		
Cousins, J. E., BSc PhD Not.		
Meads, R. E., MA DPhil Oxon.		
Jakeways, R., BSc Lond., PhD		
Nichol, A. W., MA PhD Camb.		
<b>Psychology</b>		
Reid, R. L., MA Edin.		
Lynn, R., MA PhD Camb.		
<b>Public Administration, see Econ. and Pub. Admin.</b>		
<b>Russian, see German</b>		

## ADMINISTRATIVE AND OTHER STAFF

OFFICE OF THE SECRETARY. Asst Secs.: W. J. Kindell, FCIS (Finance); D. Severn, MA St. And (Properties & Gen.). Chief Clerk (Finance).

E. J. Brockhurst Supt. of Bldgs. B. W. Wright Supt. of Grounds: A. G. Crouch Manager, Univ. Refectory. P. A. V. Lloyd-Bostock Admin.

Assts : J. R. Orchard, BA Oxon ; R. J. Woodland, G. S. Meyer, BA Lond ; Patricia M. Wash, BA Camb

OFFICE OF THE ACADEMIC REGISTRAR, ASST REGISTRARS : R. A. Erskine, BA Birm ; D. W. J. Morrell, MA LLB Edin. Admin. Assts : Mrs. Barbara Smith, BA Oxon ; R. B. Behrens, BA Brist. Lodgings Officer : Mrs. Lovis L. Hubbard

LIBRARY : Sub-Librarians : A. A. Brockett, BA Lond., MA, FLA ; Joyce Packer, BA Lond. Archivist : Mrs. Audrey M. Erskine, MA Blet Oxon, FRHistS. Asst Librarians : June Cooling, MA Brist. ; Mary T. Claxton, BA Lond., MA.

WARDS OF HALLS OF RESIDENCE : Reed Hall (men), C. A. M. Henshaw, MA DPhil Oxon ; Maudes Hall (men), D. Hammond Smith, MA PhD Camb ; Exeter Hall (men), J. H. Spicer, BA Camb., MA Aberd. ; Crossin Hall (men),

R. Lynn, MA PhD Camb ; Hope Hall (women), Marva Coleman Mills, BA Lond ; Lopes Hall (women), Isobel G. T. Rees, MA Aberd ; Thomas Hall (women), Joyce Youngs, BA PhD Lond, FRHistS ; Dicks Grange (women), Margery H. Parpoint, BSc Lond ; Barton Place (women), M. Pauline Collard, BCom Lond

TUTOR TO BRADNICH HALL (NON-RESIDENT) STUDENTS : D. Jacobs, MA Camb

LAZARUS CHAPLAIN : Rev. R. J. H. Shutt, MA PhD Durk

NORIAN LOCKATH OBSERVATORY : Dir. Prof. G. K. T. Conn, MA Aberd, BA PhD Camb

RADIATION PROTECTION OFFICER : F. C. Flack, BSc PhD Liv

MEDICAL OFFICERS : G. L. Stumbles, MSc Dorothy Stumbles, MB ChB Birm.

## GENERAL INFORMATION

The Univ. of Exeter had its origin in the local demand for a centre for higher education in the S.W. of England in the yrs. following the great exhibition of 1851. The successful establishment of a sch. of art in 1855 was followed by the erection in 1865 of a bldg. to house a county museum, library and sch. of art as a memorial to the Prince Consort. Univ. extension lectures were organized in this bldg., and candidates prepared for South Kensington sci. and arts exams. In 1893 classes were extended and Exeter Tech. and Univ. Extension Coll. was established, becoming in 1899 the Royal Albert Memorial Coll. The preparation of students for London Univ. external degrees began in 1901. In 1912 the coll. was reconstituted as the Univ. Coll. of the South West of England, and received its first Treasury grant as a recog. univ. main. The residential nature of the present univ. was early established, and there are now 9 halls of residence. In 1955 a royal charter founding the Univ. of Exeter empowered the univ. to incorporate the univ. coll.

Exeter (pop. 50,000) is situated on the river Exe 10 miles from the S. Devon coast, near several holiday resorts. A cathedral city, it is also the admin. centre of Devon county, and a market town.

CONSTITUTION. The supreme governing body of the univ. is the court, comprising some 230 reps. of local authorities and organs, learned bodies, benefactors and local schs., the officers, officials and reps. of staff and grads. The court meets annually to receive reports of council and senate, pass the audited statement of accounts, appoint univ. officers, and amend or repeal statutes. The chief exec. body is the council, whose members incl. the officers of the univ., reps. of court, senate, convocation and local authorities. Academic matters are controlled by the senate, which comprises the profs. and hds. of all teaching depts. and 6 reps. of the non-pro-

fessional staff. The hds. of the 4 facs., under the chairmanship of their deans, are responsible to the senate for teaching and exams within the facs. The deans, elected by the hds. of facs., hold office for periods of 1 to 4 yrs. The chancellor, as chief officer of the univ., presides over court and council. In her absence, a pro-chancellor acts as chairman of those bodies. The vice-chancellor, the chief academic officer, is ex officio chairman of senate. The registered grads. of the univ. form convocation, which elects reps. to serve on court and council, and meets annually to discuss and comment on any matters concerning the univ.

INCOME (1960-61) £586,493 (Treasury grant, 74.8 per cent., grants from local authorities, 5.5 per cent., fees, 13.6 per cent., misc., 6.1 per cent.).

FACULTIES AND DEANS (1962-63) : Arts, Prof. F. W. Clayton (classics), law, Prof. C. F. Parker, rev., Prof. D. Rees (pure maths.), soc. studies, Prof. A. Davies (geog.).

UNIVERSITY BUILDINGS. Accommodation was originally provided in extensions of the Royal Albert Memorial Bldg. in Queen St. In 1911 the univ. was moved to a new bldg. in Gandy St., which is now occupied by the fac. of law, the depts. of extra-mural studies and of psychol. and the inst. of educn. In 1924 the Streatsham estate was acquired, partly by gift of W. H. Reed, former mayor of Exeter. To this site, which now covers 270 acres on the N. side of the city, the univ. is being gradually transferred. Bldgs. already erected incl. the Washington Singer labs. (1931), the Roberough library (1940), the Hatherly hol. labs. (1952), the May Harris chapel (1958) and the Queen's bldg. (1958) housing the facs. of arts and soc. studies and the depts. of geol. Northcote House (admin. depts.), Devonshire House (guild

of students) and the univ. refectory were completed and occupied in the summer of 1960.

**LIBRARY** Roborough library, 135,000 books, incl some rare editions and early printed books. The univ. is responsible for the admin. of Exeter cathedral library (30,000 vols.) and for the caputular archives, incl the Exon Domesday and the Exeter Book.

**LABORATORIES.** Bot., cancer, chem., geol., phys., psychol., zool.

**OBSERVATORY** The Norman Lockyer observatory, Sidmouth, became a constituent part of the univ. in 1948.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff' above). Gandy St., Exeter (tel. Exeter 77911). Constituent members univ. dept. of educn (Prof.—R. D'Aeth, AM, *Hon.*, PhD *Cantab.*); St Luke's Coll., Exeter (men) (principal—J. L. Seneall, JP, MA), Rolle Coll., Exmouth (women) (principal—Doris R. L. Spicer, MA BCom) Associate member: Dartington Coll. of Arts (dept. of music educn).

**ADMISSION.** See Appendix III.

**FIRST DEGREES** BA, BA in soc. studies, BSc, LLB—3 yrs. No inter exam. except in fac. of law, where it is taken at end of 1st yr. of 3-yr LLB course. For BA, BSc and LLB the final exam. is taken in a pts. at end of 2nd and 3rd yrs., except in the case of the hon. degree in fac. of soc. studies and the hon. degree in geog. in all facs, where pt. 1 is taken at the end of 1st yr. Hon. degrees may be taken in the following subs.: classics, Engl., French, geog., German, Greek, hist., Latn, maths, philos., Spanish, theol., law, bot., chem., geol., phys., psychol., zool., econ., econ. hist., govt. & social. Combined hon. degrees (2 subs.) may be taken in a number of subs. in the facs of arts and soc. studies.

Gen. hon. degrees (2 subs. and 1 subsid. subj.) may be taken in fac. of sci. Gen. degree in fac. of soc. studies may be awarded with hon.

**HIGHER DEGREES** MA (arts and soc. studies), MSc, LL.M., PhD, DLitt, DSc, LL.D. Grads. of other univs. are admitted to higher degree courses for MA, MSc, LL.M. and PhD. The master's degree may be taken after 3 terms' study, the PhD after 6 terms' study. MSc, PhD (in sci.) open in certain cases to non-grads. in fac. of sci. The higher doctorates are reserved to Exeter grads. of at least 7 yrs. standing.

**HONORARY DEGREES** Any of the degrees in the preceding paras. may also be awarded as an hon. degree.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS** Educn., full-time 1 yr., pt-time 3 yrs., pub. admin., soc. admin., each 2 yrs. Grad. dipl. in pub. admin., 1 yr.

**CERTIFICATES, ETC.** Postgrad. cert. in educn., testamur in Engl. lang. & lit. for overseas students, each 1 yr.; testamur of proficiency in French

lang. and in German lang., grad. cert. in soc. work, 1 term.

**REFRESH.** Facilities for res. exist in all depts. A list of books and articles by staff of the univ. is published in the *Journal Report*, with titles of theses.

**ATTENDANCE** The univ. has a *provision* with the Univ. of Rennes, which provides for visits and exchanges of staff for periods up to 1 yr., and for exchange of res. information.

**STUDY LEAVES** Applicants from members of staff are considered individually on their merits.

**FEEs** *Annual composition fees* (covering, where relevant, registration, matric., tuition, exam. and graduation fees, but not sub. for guild of students, caution money, Bradninch Hall sub., or ex. charges for field studies): BA, LL.B., £60, BSc., £75; MA, LL.M., MSc., PhD (with lab. facilities), £75; MA, LL.M., MSc., PhD (without lab. facilities), £60; DLitt., LL.D., DSc., £30, grad. dipl. in pub. admin., £60; dipl. in pub. admin. and soc. admin. (full-time), £60 (pt-time, £30). Cert. in educn., £60, 38, dipl. in educn., £45 (pt-time, £15), testamur in Engl. for overseas students, £60, grad. cert. in soc. work, £65. *Dues*: All full-time students are also required to pay the following guild of students sub., £5, 10s p.a., caution money, £10.

Fees at reduced rate payable by students from Devon, Cornwall, Dorset, Exeter and Plymouth.

**ACADEMIC YEAR** Oct. to June. 3 terms of 10 wks. each.

**Dept. of EXTRA-MURAL STUDIES** (see also 'Teaching Staff' above). University, Gandy St., Exeter (tel. Exeter 77911). The dept. provides lecture courses and tutorial classes throughout the counties of Devon and Cornwall, organized by 8 resident tutors, and co-operates in the organization of adult educn. in the region in assoc. with local educn. authorities and the WEA. The dept. also supplies civilian lectrs. to armed forces.

**SUMMER SCHOOLS** The univ. organizes a 3-wk. summer sch. in Engl. studies for overseas students annually in Aug.

**ENTRANCE SCHOLARSHIPS** On the results of an annual entrance schol. exam. the univ. awards open schol. (max. value, £80), open o.b. bursars (max. value, £40) and various closed schol.

**POSTGRADUATE AWARDS** open to grads. of other univs. see p. 910.

**RESIDENCE** (tel. 77911 unless otherwise indicated, for wardens, see 'Admission and Other Staff' above). For women (fecs, £147-£150): Hope Hall, Prince of Wales Rd., Exeter, 120 students; Lopes Hall, St. German's Rd., Exeter, 125 students; Thomas Hall, Cowley Rd., Exeter, 45 students; Bucks Grange, New North Rd., Exeter, 28 students; Barton Place, Wireford's Lane, Exeter, 26 students. For men (fecs, £155-£155): Reed Hall, Stratham Drive, Exeter, 71 students; Exeter Hall, Pennyknave Rd., Exeter, 82 students; Mardon Hall, Stratham Dr.,



Exeter, 83 students, Crossmead Hall, Dunsford Hill, Exeter (tel. 54452, warden), 78 students. All students not living at home must reside in one of the halls of residence, as far as accommodation permits.

The Duryard Halls, comprising 3 halls of residence, 2 for men, 1 for women, 150 students in each, are expected to receive students for 1st term in Oct. 1963.

**APPOINTMENTS.** An appts. organization, under the direction of the academic registrar, advises students on careers and helps them to obtain posts on the completion of their courses.

**GRADUATES' ASSOCIATION.** The Exeter univ. club is an assocn. of former students, and members of the univ. staff. Branch cogns exist in Exeter, London, Bristol, Plymouth and Birmingham. An annual Easter reunion is held in one of the univ. halls of residence. The club publishes a bulletin.

**GUILD OF STUDENTS.** The guild of students is the official orgn of the students of the univ. and membership is compulsory on all full-time

students. The subscription covers membership of the athletic union clubs and other student socs affiliated to the guild. The guild council makes rules for the admin of the guild subject to the approval of the senate, and represents the students of the univ in relations with the univ authorities and other bodies. Devonshire House, the students' union, provides lounges, offices and bars, and a music and debating chamber. The *South-Westerner*, the organ of the guild, is published fortnightly.

**PUBLICATIONS.** *Univ Calendar* (Oct.), 10s. soft covers, 12s. 6d. hard covers, univ *Prospectus* (free) (Sept.), *Syllabuses* of courses in arts, law, sci., soc. studies, 1s. each (Oct.), *univ Gazette* (free) (April, July, Aug., Jan.), *Regus for Entrance Scholarships* (free) (Aug.), *Annual Report* (free) (Feb.), guild of students' *Handbook* (Oct.).

**BOOKSHOP.** By arrangement with the univ the S.P.C.K. operates a bookshop on univ. premises.

## THE YEAR 1961

**PROVINCIAL AGRICULTURAL ECONOMICS SERVICE.** On Aug. 1 the Bristol II prov. of the provincial agric. econ. service was transferred to Exeter from Bristol Univ.

**RETIREMENTS.** Prof. W. L. Horrox (Engl.), W. F. Jackson Knight (classics); D. R. Barber (observatory).

**RESIGNATIONS.** C. J. Herington (classics), J. Herzberg (maths); Barbara Lallywhite (law), A. Melton (dir. inst. of educn.), H. Rowe (econ.); Hilda Swinburne (German).

**DEATHS.** Mrs. Patricia Burton (lectr. in econ.), Dr. L. C. Hill (lectr.-in-charge, pub. and soc. admin., 1946-54), A. Stirling (tutor, inst. of educn.).

**HONORARY DEGREES.** *DLitt.*—B. H. Leach, Cornish potter; Mrs. M. E. L. Mallowan, writer. *LLD.*—Prof. Theodor Heuss, former pres., Fed. Republic of Germany, Sir Paul Surker, dir. gen., British Council. *DSc.*—Prof. Sir William Hodge, sec., Royal Soc.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	898	84
Women	699	41
Total	1597*	125

**Distribution by Faculties.** *Arts* (incl. educn.), 781; *law*, 71; *sci.*, 536; *soc. studies*, 334. Total 1722.

*Included in the figures above are:—*

Postgraduate students, 212.

New admissions, 685.

Students from other countries, 155. (Countries from which largest numbers came: Germany, 31; U.S.A., 26; Nigeria, 23.)

**DEGREES AWARDED (1960-61).** *Arts*: BA hon., 102, BA gen., 12; MA, 1; PhD, 1. *Law*: LLB hon., 7, LLB ord., 7. *Soc.*: BSc hon., 68; BSc gen., 27; MSc, 3, PhD, 13. *Soc. studies*: BA hon., 39; BA gen., 7, MA, 1. Total number of first degrees awarded, 269.

**DIPLOMAS AWARDED (1960-61).** Grad. DPA, 1; DPA, 6; DSA, 13; DipEd, 10.

**CERTIFICATES AWARDED (1960-61).** CertEd, 119; testamur in Engl. lang. & lit. for overseas students, 18; testamur of proficiency in German lang., 1.

\* Including 38 full-time students from other countries registered for 1 or 2 terms only.

## UNIVERSITY OF HULL\*

Founded 1954, previously established as University College of Hull, 1927

Postal Address: Hull, England

Telephone: Hull 4c8960 (5 lines)

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. LORD MIDDLETON, KG, MC, TD, JP, Hon. LLD *Leeds & Hull*

PRO-CHANCELLOR—The Rt. Hon. LORD HOTHAM, CBE, The Rt. Hon. THE EARL OF ANCASTER, TD, JP, MA Camb; H. I. LOREN, MBE, JP, Hon. LLD

VICE-CHANCELLOR—BRYNMOR JONES, BSc PhD *Water & Camb.*, ScD *Camb.*, FRIC

TREASURER—L. H. DOWNS, CBE, MA Camb, Hon. DSc, MIMechE

PRO-VICE-CHANCELLOR—Professor M. M. GILLIES, MA Camb, PhD *Educ.*REGISTRAR—W. D. CRAIG, BL *Glas.*LIBRARIAN—P. A. LARKIN, MA *Oxon.*

## TEACHING STAFF

[†=Part-Time]

<b>American Studies</b>					
Moore, G. H., MA <i>Camb.</i>	Prof	Clarke, K., MSc PhD <i>Liv</i>		Lectr.	
Taylor, P. A. M., MA PhD <i>Camb</i>	Lectr	Shorter, J., MA BSc DPhil <i>Oxon</i>		Lectr.	
		Hathaway, E. J., BSc <i>Leeds</i> , PhD <i>Not.</i>		Lectr.	
		Francis, P. G., BSc PhD <i>Rdg.</i>		Lectr.	
		Webster, D. E., BSc PhD <i>Leeds</i>		Lectr.	
		Biggs, J., MA PhD <i>Camb</i>		Lectr.	
		Holbrook, K. A., BSc PhD <i>Brist.</i>		Lectr.	
		Oldershaw, G. A., MA PhD <i>Camb.</i>		Lectr.	
		Walker, R. W., BSc PhD		Asst. Lectr.	
		Wells, P. B., BSc PhD		Asst. Lectr.	
		Drake, J. E., BSc PhD <i>S'ron.</i>		Asst. Lectr.	
		Nelson, P. G., BA <i>Camb.</i>		Asst. Lectr.	
		Rooney, J. J., BSc PhD <i>Belf.</i>		Asst. Lectr.	
		Scrowston, R. M., BSc PhD <i>Leeds</i>		Asst. Lectr.	
		Toyne, K. J., BSc <i>Manc.</i> , PhD		Asst. Lectr.	
		Bruck, P., BSc PhD <i>Sheff</i>	I.C.I.	Res. Fellow	
		Byron, D. J., BSc PhD		Res. Fellow	
		Shooter, Mrs. Pauline V., BSc		Res. Asst.	
<b>Biochemistry</b>					
.....	Prof.				
<b>Botany</b>					
Robertson, N. F., BSc PhD <i>Educ.</i> , MA <i>Camb.</i>	Prof				
Cromwell, B. T., BSc PhD <i>Liv.</i>	Reader				
Boatman, D. J., BSc PhD <i>Leeds</i> , MA <i>Dub.</i>	Lectr.				
Friend, J., BSc <i>Liv.</i> , PhD <i>Law &amp; Camb</i>	Lectr				
Holliday, P., MA <i>Camb.</i>	Lectr				
Peel, A. J., BSc PhD <i>Not.</i>	Lectr				
Morgan, D. H., BSc <i>Sheff</i>	Lectr				
Roberts, Margaret F., MSc <i>Brist.</i>	Res. Asst				
Roff, W. J., BA <i>Camb</i>	Res. Asst				
<b>Chemistry</b>					
Chapman, N. B., MA PhD <i>Camb.</i> , FRIC (on leave) G. F. Grant <i>Prof.</i>					
Baldwin, R. R., MA <i>Camb.</i> , PhD <i>Leeds</i>	Sr. Lectr.				
Kipling, J. J., MA BSc DPhil <i>Oxon.</i>	Sr. Lectr., Actg. Hd. of Dept.				
Gray, G. W., BSc <i>Glas.</i> , PhD <i>Leeds</i>	Sr. Lectr.				
Barker, C. C., BSc PhD <i>Brist.</i>	Sr. Lectr.				
Norris, A. D., MA DPhil <i>Oxon.</i> , FRIC	Lectr.				
		<b>Classics</b>			
		Gilhes, M. M., MA <i>Camb.</i> , PhD <i>Educ.</i>		Prof.	
		Norman, A. F., MA <i>Oxon.</i> , PhD <i>Leeds</i>			
		Chilton, C. W., MA <i>Camb.</i>		Sr. Lectr.	
		Ryder, T. T. B., MA PhD <i>Camb.</i>		Sr. Lectr.	
		Scandens, T. J., BA <i>Leeds</i>		Lectr.	
		<b>Economics and Commerce</b>			
		Wilson, J. S. G., DipCom MA <i>W.Aust.</i>		Prof.	
		Saville, J., BSc(Econ) <i>Leeds</i>		Sr. Lectr.	
		Nicholson, R. J., MA <i>Camb.</i> (Stats.)		Sr. Lectr.	
		Rotheray, D., MA <i>Camb.</i>		Lectr.	
		Hmer, O. S., MA <i>Camb.</i>		Lectr.	
		Kemp, T., BSc(Econ) <i>Leeds</i>		Lectr.	

\* Member of the Association of Universities of the British Commonwealth

Mawcy, G. E., BA *Comp.*, MA *Leeds* Lectr.  
 Galambos, P., DrRerPol *Piemonte*, MA *Leeds*  
 (Stats.) Lectr.  
 Evans, E. W., MA PhD *Wales* Lectr.  
 Williams, D., BSc(Econ) *Leeds* Lectr.  
 Hclpa, P., BSc(Econ) *Leeds* (Accounting) Lectr.  
 Swan, A. W., BSc *Tor*

(Operational Res.) Sp Lectr  
 Ahrens, J. H. L., DrRerNat *Kiel*  
 (Operational Res.) Lectr  
 Blackman, Janet M., BA *Leeds* Asst. Lectr.  
 Burton, F. N., BSc(Econ) Asst. Lectr.  
 Hewitt, J., BScSc *Burn* (Stats.) Asst. Lectr.  
 Bellamy, Joyce M., BCom *Leeds* Res. Asst.  
 Butt, Mrs. June, MA *Oxon* Res. Asst.

## Education

Land, F. W., MSc PhD *Leeds* Prof.  
 Graham, Janet B., (Phys. E) Lectr.  
 Lawson, J., MA *Manc.* Lectr.  
 Bradley, J., MA *Canb.*, MSc *Leeds* Lectr.  
 Bunker, G. A. S., BSc(Econ) *Leeds* Lectr.  
 Garforth, F. W., BA *Leeds*, MA *Canb.* Lectr.  
 Stern, H. H., MA PhD *Leeds* Lectr.  
 Miles, H. B., MSc *Wales*, PhD Lectr.  
 Atkins, S. H., MA PhD *Leeds* Lectr.  
 Dwyer, F. J., BLitt MA *Oxon* Lectr.  
 Owen, J. W., BSc *Wales* (Phys. E) Lectr.  
 Shield, D. L., BA (Phys. E) Asst.  
 Moschov, Kathleen I., CertEd *Sheff.* (Phys. E) Asst.  
 Shibley, Gwendoline †Lectr.  
 Burnett, Margaret †Lectr.

## English Language and Literature

Brett, R. L., BA *Brist.*, BLitt *Oxon*, G. F. Grant Prof.  
 'Espinasse, Mrs. Margaret, BA BLitt *Oxon* Sr. Lectr.  
 Bines, A. L., BA *Manc.* Sr. Lectr.  
 Cox, C. B., MA MLitt *Canb.* Lectr.  
 Jones, A. R., BA *Not.* Lectr.  
 Smith, J. N., MA BLitt *Oxon* Lectr.  
 Margeson, J. M. R., BA *Br. Col.*, MA PhD *Tor* Lectr.  
 McAlindon, T., MA *N. U. I.*, PhD *Canb.* Lectr.  
 Fowler, R. G., MA *Leeds* Asst. Lectr.  
 Palmer, D. J., BA *Oxon* Asst. Lectr.  
 Scouler, Kitty W., MA *Edin.*, DPhil *Oxon* Asst. Lectr.

## Geography

Wilkinson, H. R., MA *Leeds* Prof.  
 Brach, D. P., MBE, MA *Canb.* Lectr.  
 Latham, Lou R., BA *Sheff.* Lectr.  
 de Boer, G., MA *Canb.* Lectr.  
 Appleton, J. H., MA *Oxon*, MSc *Durh.* Lectr.  
 Harris, A., MA *Leeds*, PhD Lectr.  
 Symes, D. G., BA *Oxon* Lectr.  
 Ward, R. C., BA PhD *Rdg.* Asst. Lectr.  
 Layzell, Catherine R. R., BSc *Sheff.* Res. Asst.

## Geology

Donovan, D. T., PhD DSc *Brist.* Prof.  
 Penny, L. F., MA *Canb.* Lectr.

Nale, J. W., BSc *Manc.*, PhD Sr. Lectr.  
 Puseck, M. A. J., MSc *Leeds* Lectr.  
 Angus, N. S., BSc PhD *Belf.*, MSc *N. U. I.* Lectr.

## German

Bauer, C., BA *Leeds*, DrPhil *Tubingen* Hd. of Dept.  
 Boelard, H. H., MA PhD *Canb.* (Swedish) Lectr.  
 Brown, Margaret A. L., MA *Edin.* Lectr.  
 Boulby, M., MA *Canb.*, PhD *Leeds* Lectr.  
 Atwood, D. C., BA *Wales* Asst. Lectr.  
 Kimbrough, C. S., FilmMag *Uppsala* (Swedish) Asst. Lectr.  
 Llewellyn, R. T., BA *Wales* Asst. Lectr.  
 Vospernik, R. Lectr.

## Health Visitor's Course

Hutchison, A., MD PhD DPH DPA *Glas.*,  
 FRFSGlas †Lectr.  
 Reffell, B., MB BS *Durh.*, DPH †Lectr.

## History

Kenyon, J. P., BA *Sheff.*, PhD *Canb.* G. F. Grant Prof.  
 Brooks, F. W., MA *Leeds*, FRHistS, FSA Reader.  
 Dome, Decima L., MA *Oxon*, PhD *Manc.* Lectr.  
 FRHistS Sr. Lectr.  
 Davis, R., BSc(Econ) PhD *Leeds* Sr. Lectr.  
 Spencer, F., MA PhD *Manc.* Sr. Lectr.  
 Drury, Ethel, MA *Cape T.*, FRHistS Lectr.  
 Easton, M. F., MA *Oxon*, PhD *Leeds* (H. of Art) Lectr.  
 Heath, P., MA *Leeds* Lectr.  
 Metcalfe, G. E., MA *Oxon* Lectr.  
 Connell-Smith, G. E., BA PhD *Leeds*,  
 FRHistS Lectr.  
 Linyd, H. A., BA *Wales* Asst. Lectr.

## Italian, see Romance Langs. and Lits

## Law

Taylor, F. W., LL.M. *Wales*, MA *Canb.* Prof.  
 Bevan, H. K., LL.B. *Wales* Sr. Lectr.  
 Dimopoulos, A., LL.B. *Arhus*, MA *Canb.* Lectr.  
 Barker, J. M. A., BSc *Sheff.*, LL.B. Lectr.  
 Hawkins, A. J., LL.B. Asst. Lectr.  
 Lewis, N., LL.B. *Brist.* Asst. Lectr.  
 Pollard, D. W., LL.B. *Leeds* Asst. Lectr.  
 Martin, P. J., BA LL.B. *Canb.* †Lectr.  
 Woodliffe, J. C., LL.B. †Lectr.  
 Sibley, Gwendoline †Lectr.

## Mathematics

Slater, N. B., MA *Edin.* & *Canb.*, PhD  
 Scd *Canb.* (Appl. M.) Prof., Hd. of Dept.  
 Cockerill, W. H., MA DPhil *Oxon*  
 (Pure M.), G. F. Grant Prof.  
 Parsons, H. W., MA *Canb.*, PhD *Leeds* Sr. Lectr.  
 Hale, V. W. D., MA PhD *Canb.* Lectr.  
 Wallington, J. R., MA PhD *Canb.* Lectr.

Shaw, R. BA PhD <i>Comb</i>	Lectr.
Roberts, G. T., BA PhD <i>Comb.</i>	Lectr.
Sarkunan, S. MA MSc <i>Maths.</i>	Lectr.
Kelly, J. C., MA <i>Comb.</i> , PhD <i>Durb</i>	Lectr.
Anderson, N., BSc PhD <i>Durb</i>	Lectr.
Waugh, W. A. O'N., MA DPhil <i>Oxon</i>	Lectr.

(Stats.) Lectr.

de Barra, G., MSc N U I., PhD <i>Lond</i>	Asst Lectr.
Collinson, C. D., BSc <i>Lond</i>	Asst Lectr.
Grubb, M. Amherst, BA <i>Oxon</i>	Asst Lectr.
Hutchings, R. L., BA <i>Comb.</i>	Asst Lectr.
Javis, T. M., BSc <i>Lond.</i> , AM <i>Cel</i>	Asst Lectr.
Moss, R. M. F., BSc <i>St And</i>	Asst Lectr.

#### Computation

Cook, I. T., MA <i>Comb.</i> , BSc <i>Lond.</i> , PhD	Lectr-in-Charge
McEwan, A. T., BSc	Res Asst

#### Music

Marchant, R. B., MA MusB <i>Comb.</i>	Dir
Wells, D. J., BA BMus <i>Durb</i> , FRCO	Lectr
Olsson, D. E., BA <i>Oxon</i>	Asst. Lectr

#### Philosophy

White, A. R., BA <i>Dob</i> , PhD <i>Lond</i>	Ferens Prof Lectr.
Stern, A. L., L&Sc DPhil <i>Gronna</i>	Lectr.
Montague, R. D. L., BA <i>Brist</i> , BPhil <i>Oxon</i>	Lectr
Williams, C. J. F., MA <i>Oxon</i>	Asst Lectr

#### Physics

Garlick, G. F. J., PhD ScD <i>Birm</i> , FIP	Prof, Dir of Phys. Labs
Jones, J. I., BSc PhD <i>Waler</i> , FIP	Asst. Dir
Cunliffe, A., BSc PhD <i>Lond</i> , FIP	Sr Lectr.
Hough, J. M., MA <i>Comb.</i>	Lectr.
Reed, C. E., BSc <i>Durb</i>	Lectr
Goodyear, J., BSc PhD <i>Lond</i>	Lectr.
Duffin, W. J., MA <i>Comb.</i> , PhD <i>Lond</i>	Lectr
Bryant, F. J., BSc PhD <i>Birm</i>	Lectr.
Robertson, I. S., BSc PhD <i>Aberd</i>	Lectr
Allinson, P. A., BSc PhD <i>Durb</i>	Lectr
Hughes, D. G., BSc PhD <i>Wales</i>	Lectr
Jones, M. N., BSc <i>Wales</i>	Lectr
Shaw, D., BSc <i>Manc</i> , DIC, PhD <i>Lond</i>	Lectr
Sutherland, H. H., BSc PhD <i>St And</i>	Lectr
Dev, I., MSc <i>Ald</i>	Res Asst
Agnew, J. P., MSc <i>Ald</i>	Res Asst.
Cox, A. F. J., BSc	Demr.
Lamb, W. E., BSc <i>Manc</i>	Demr

#### Political Studies

Birch, A. H., BSc(Econ) PhD <i>Lond</i>	Prof.
Greenleaf, W. H., BSc(Econ) PhD <i>Lond</i>	Lectr
Dowse, R. E., BSc(Econ) PhD <i>Lond</i>	Lectr
Bonewick, R. J., BSc <i>Comb.</i> , MA <i>Ohio</i>	Lectr
Smith, T., BSc(Econ) <i>Lond</i>	Asst Lectr

#### Psychology

Clarke, A. D. B., BA R'dg., PhD <i>Lond</i>	Prof.
Hebron, Mrs. Muriel E., MA PhD <i>Lond</i>	Lectr

Rayne, A. H., MSc <i>Manc.</i>	Lectr.
McComsky, J. G., MA BEd <i>Belf</i>	Lectr.
Honarth, C. I., MA DPhil <i>Oxon</i>	Lectr
Mathews, W. A., BA <i>Lond</i>	Lectr
Robinson, W. P., MA DPhil <i>Oxon</i>	Asst. Lectr
Beckford, J. A. R., DPM <i>Bent</i>	†Lectr

#### Romance Languages and Literatures

Rees, G., MA <i>Waler</i> , DU <i>Paris</i>	(French) Prof, Hd of Dept
Charlton, D. G., MA <i>Comb.</i> , PhD <i>Lond</i>	Lectr
Prickford, C. E., MA <i>Manc</i> , DNL <i>Paris</i>	Sr Lectr
Gonestier, P., L&L Dipl'd <i>BrSup</i>	Sr Lectr
DUParis	Sr Lectr
Magnus, Patricia I., MA <i>Glas.</i>	Lectr
Cline, H. P., BA PhD <i>Lond</i>	Lectr
Wells, D. W., BA <i>Wales</i>	Lectr
Maloney, B., MA PhD <i>Comb.</i> (Italian)	Lectr
Morris, C. H., MA <i>Manc</i> (Spanish)	Lectr
Coupland, R., MA <i>Edin</i> , PhD <i>Lond</i>	Asst Lectr
Harvey, Patricia M., MA <i>Manc</i>	Asst Lectr
Langley, F. W., BA <i>Durb</i>	Asst Lectr.
Boudicet, Anne-Marie, L&L <i>Cherbourg</i>	Lectrice

#### Social Studies

Drinkwater, R. W., MA <i>Comb.</i>	Hd of Dept
Worsley, P. M., BA <i>Comb.</i> , MA (Econ) <i>Manc</i> , PhD <i>A N U</i>	Sr Lectr
Collins, Mrs. Pamela D. O., DiplPsychiatr.	Lectr
Social Work <i>Edin</i>	Lectr
Horsbun, G. W., BSc(Econ) <i>Lond</i>	Lectr
Delbar, H. J., BA	Lectr
Chester, R., BSc <i>Stow</i>	Lectr
Kahn, Hilda R., BSc(Econ) PhD <i>Lond</i>	Lectr
Nichols, W. A. T., BA	Temp Asst Lectr
Kent, Mrs. Barbara, BA <i>Manc</i> , MSW <i>Boston</i>	†Lectr

#### Spanish, see Romance Langs and Lits

#### Statistics, see Econ

#### Swedish, see German

#### Theology

Hanson, Rev A. T., BA DD <i>Dob</i>	Prof
Thompson, Rev. P. J., MA <i>Oxon</i>	Lectr
Atkinson, Rev J., MA MLat <i>Durb</i> , DrTheol <i>Min</i>	Lectr
Tanner, Mrs. Mary, BA <i>Birm</i>	Asst. Lectr
Richardson, Rev W., MA BD <i>Oxon</i>	†Lectr.
Pintuch, Eva I., BA <i>Birm</i>	†Lectr

#### Zoology

Epstein, P. G., MA <i>Oxon</i>	Prof
Trueman, E. R., BSc <i>Glas.</i>	St. Lectr
Nowell, N. W., BSc <i>Leav</i> , PhD <i>Lond</i>	Lectr.
Sudd, J. H., MA <i>Comb.</i> , PhD <i>Lond</i>	Lectr.
Williams, I. C., BSc PhD <i>Wales</i>	Lectr.

Manning, Margaret J., BSc PhD *Brst* Lectr  
Lance, Joan, BSc PhD *St'ian* Asst. Lectr

Marsden, A., BA *Wales* Staff Tutor  
Connell-Smith, G. E., BA PhD *Leod*,  
FRHistS Staff Tutor

#### INSTITUTE OF EDUCATION

Land, F. W., MSc PhD *Leod* Prof., Dir  
James, I. T., MA Camb., BSc *Leod* Sec  
Bamford, T. W., BSc PhD MA *Leod* Sr Tutor  
Fraser, W. R., MA *Glas* Tutor  
Wilks, J., BA *Brst* Tutor  
Laughton, W. H., MSc *Steff* Tutor  
Freeman, C. B., MA *Oxon*, FLA Librarian  
Oldroyd, Winifred M., BA *Durb* Asst. Librarian

#### History, Local

MacMahon, K. A., MA *Leod*, FRHistS Sr Staff Tutor

#### Literature and Drama

Styne, J. L., MA *Camb* Staff Tutor  
James, W. L. G., MA DPhil *Oxon* Staff Tutor

#### Music

Whitworth, L. Joan Staff Tutor

#### Philosophy

Peterson, R. W. K., MA BPhil *St And* Staff Tutor

#### Science

Harrison, A., BSc PhD *Durb* Staff Tutor

#### Social Studies

Topham, A. J., MA *Leeds* Staff Tutor

#### Theology

Adams, Rev. J., MA MLitt *Durb*,  
DrTheol *Mün* Staff Tutor

#### ADULT EDUCATION

Styler, W. E., MA *Bern* Dir.

#### Art, History of

Hall, L., MA *Manc* Staff Tutor

#### Drama

Marckwald, W. M. Staff Tutor  
Crane, Muriel, MA *Edin* †Tutor

#### Economics

Barnby, J. E., BCons *Birm* Staff Tutor

#### History

Gillett, E., BA *Leod* Staff Tutor

### ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar: R. B. Shepherd, BSc *Leod*.  
(Academic) Bldgs. Officer: D. Campbell, MA  
Camb. Asst. Bldgs. Officer: G. Walker, BSc *Leod*.  
Admin. Asst.: J. D. Brown, MA *Edin*; M. W. M.  
Walters, BA *Camb*, Miss D. Micklethwaite,  
Accountant: B. Armitage, Asst. Accountant: J. B.  
Wood, FCA, Dep. Librarian: A. C. Wood, MA  
*Glas*. Sub-Librarians: Brenda E. Moon, MA,  
*Oxon*; P. Sheldon, BA *Leod*, FLA. Asst. Libra-  
rians: Mary Fovargue, BA *Manc*; Maeva M.  
Brennan, BA *Leod*; Ruth H. Cannell, BA *Lev*;  
Margaret King, MA *Oxon*; Gillian M. Ledger,  
BA *Durb*. Med. Officer: R. Roines, MB ChB *Leeds*.

Sec. Appts. Bd.: F. Harris-Jones, BA *Camb*.  
Warden of Lodgings: Janet Carpenter, MA *Oxon*.  
Admin. Asst., Dept. of Adult Educn.: M.  
Stephanie C. James, MA *Camb*. Radiation Pro-  
tection Officer: J. I. Jones, BSc PhD *Wales*.  
FIP Catering Officer: W. R. Newlove, Supt.  
of Works: F. G. Blanchard.

WARDENS OF HALLS OF RESIDENCE: A. J.  
Treharne, BA *Lev* (Perens Hall); H. B. Miles,  
MSc *Wales*, PhD (Needler Hall); Eva I. Pinthus,  
BA *Birm* (Clomunson Hall); Jane G. Dow, MA  
*Edin* (Thwaite Hall).

### GENERAL INFORMATION

The Univ. Coll. of Hull, incorporated in 1927  
and opened in 1928, was founded through the  
generosity of the Rt. Hon. Thomas Robinson  
Perens, High Steward of Hull and a leading in-  
dustrialist in the city, who in 1925 donated  
£250,000 to endow a univ. coll. This was  
followed by grants from the corp. of Kingston  
upon Hull who gave £150,000 towards the cost  
of bldgs. and equipment and also an annual grant  
towards maintenance; and from another in-  
dustrialist, Mr. G. F. Grant, who donated  
£100,000. In 1945 it was recognized by the  
Univ. Grants Ctee. for state grants and in 1954

was merged in the Univ. of Hull on the grant of a  
royal charter.

CONSTITUTION The supreme governing body  
of the univ. is the court, presided over by the  
chancellor and consisting of about 280 members  
rep. of educn. bodies, local authorities, parlia-  
ment, benefactors, churches, learned socs., pro-  
fessional bodies, comm. and industry. The  
executive body is the council, which consists of  
academic and lay members under the chairman-  
ship of one of the pro-chancellors. The academic  
authority is the senate, presided over by the vice-

chancellor, and consisting of all profs and hds of depts. of the univ. and 4 elected members of the non-professional teaching staff. The fac. hds are responsible under the senate for the teaching and exams. within the facs

**INCOME (1961-62)** Total income, £755,360 (Treasury grant, 76 1/2 per cent; local authorities' grants, 2 0 per cent; fees, 12 3 per cent; endowments, 5 5 per cent; other sources, 3 2 per cent)

**FACULTIES AND DEANS (1962-63).** Arts, Prof. G. Rees (Romance langs.); sci., Prof. N. F. Robertson (bot.); soc. sci. & law, Prof. J. S. G. Wilson (econ. & comm.)

**UNIVERSITY PRECINCT** The main site of the univ. is in Cottingham Rd., about 2 1/2 miles from the centre of the city, and includes teaching accomm. for all depts, except educ., maths, pol. studies, theol., German and adult educ., which occupy temporarily houses adjacent to the main site. The original bldgs for arts and sci. were erected about 1928. Permanent bldgs erected since the war include a chem. block, students' union and refectory, boiler house, changing rooms, library, health centre, extensions to halls of residence, and a new hall of residence completed in 1957. Extensions for chem., a new bldg for bot. and zool., a new bldg for phys., and a new hall of residence for grads. and sr. students are now in hand. The univ. has ample space on its present sites for all foreseeable development in teaching and res. accomm. The univ. halls of residence are all situated in the village of Cottingham, some 2-3 miles from the univ. The univ. coll. was developed on a fully residential basis, and although this is no longer possible with increasing nos. in the univ., it is hoped to continue to develop as a residential univ. in the future. The sites in Cottingham have ample space for bldg. addnl. halls, and new halls and extensions to the present halls are planned in the next few yrs. Future plans on the main site include an extension to the students' union and refectory bldg., an arts bldg., a concert hall, a bldg. for appl. sci. and a sports centre.

**LIBRARY.** Over 150,000 vols.; includes material for advanced res. More than 1700 periodicals and annuals currently taken.

**LABORATORIES, ETC.** Bot., chem. (org., phys. & inorg.), geog., geol., phys., psychol., zool.; teacher try lab.; bot. garden; bot. field station, Spurn Head; coastal res. unit (geog.), Spurn Head; marine biol. lab. (zool.), Scarborough.

**ADMISSION.** See Appendix III.

**FIRST DEGREES.** BA—special, joint and pass; BSc—apical, joint and pass; LLB—hons.; BSc(Econ)—hons. Degree courses ordinarily cover 3 yrs. In final exam for BA spec., candidates are examined in one main subj. and for the jt. degree in 2 main subjs. Subjs. offered—classics, Engl., French, geog., German, Greek

(with Latin), hist., Italian, Latin (with Greek), law, maths., music, philos., Spanish, psychol., soc. studies, sociol., pol. studies, Swedish, theol. In final exam for BSc spec., candidates are examined in one main subj., and for the jt. degree in 2 main subjs. Subjs. offered—bot., chem., geog., geol., maths., philos., phys., psychol., zool. Under certain conditions candidates for the BA spec. (geog. & psychol. only) and the BSc spec. and jt. degrees may be allowed to transfer to a course for the BA or BSc pass degree. Hons. can be obtained in either jt. or spec. courses for BA and BSc. Candidates at final exam. may be examined orally or by practical exam. in addition to written papers. The dept. of law prepares candidates for the bar exams as well as for the univ.'s degrees. Candidates for BSc(Econ) take a qualifying exam. after 1 yr., and must ordinarily pass in this before proceeding to the 2nd yr. Candidates for final exam. for LLB and BSc(Poin) may be examined orally in addition to written papers.

**HIGHER DEGREES.** BD, MA, MSc, LL.M., MSc(Econ), MEd, PhD, DSc(Econ), LL.D., DLitt, DSc, DD. BD and masters' degrees—2 yrs., one of which must be full-time or 3 yrs. pt-time, PhD—2 or 3 yrs., depending on qualifs., candidates for BD must pass or be exempted from qualifying exam. in 7 papers before submitting thesis. For MA (except maths.), MSc, LL.M., MSc(Econ), MEd a thesis must be submitted, written and oral exam. may also be required. MA in maths. may be by thesis or written exam. PhD is taken by thesis and oral exam. DSc(Econ), LL.D., DLitt, DSc and DD awarded on published work. All higher degrees, except higher doctorates, open to grads. of other univs.—higher doctorates (except as honorary degrees) open only to Hull grads. or, in the case of DLitt and DSc, to members of staff.

Any degree of the univ. may be awarded as an **HONORARY DEGREE.**

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Pub. admin. (pt-time)—3 yrs.; advanced dipl. in educ. (pt-time)—2 yrs.; soc. studies—2 yrs. (may be 1 yr. for grads.), operational res. for management—1 yr.

**CERTIFICATES.** Further study in div., Swedish (pt-time)—not less than 2 yrs., grad. cert. in educ.—1 yr.

**OTHER COURSES.** Courses (1 yr.) for health visitor's cert. of Royal Soc. for Promotion of Health.

**RESEARCH.** Facilities for res. in all depts. Res. work by staff members recorded in univ. *Annual Report*. Univ. also publishes *Abstracts of Theses*.

**ALLIANCES.** The univ. has an arrangement with the Univ. of Kiel for the exchange of students for short periods. Since 1953 the univ. has had a scheme for the exchange of sr. teaching staff with the Univ. of Rochester, whereby a yr. can be spent in Rochester by Hull staff and a

similar period in Hull by members of the Rochester staff

**STUDY LEAVY.** Each appln. is considered on its merits.

**Fees.** *Annual composition fees* (covering, where relevant, registration, tuition, exam. [1st entry], graduation, convocation and membership of students' union) Bachelor's degrees: BA (except geog. and psychol.), BSc pure sci. (maths. and phys.), BSc(Econ), LL.B., £68; BA (geog. and psychol.), BSc pure sci. (except maths. and phys.), £83. Higher degrees: MA, LL.M., MSc(Econ), BD, MEd, PhD (arts), £68, MSc, PhD (sci.), £83, DLitt, DSc, LL.D., DD, £37 10s. Dipls.: advanced dipl. in educn., £24, pub. admin. (pt.-time), £12 12s; soc. studies, £68, operational res. for management, £107 10s. Certs.: educn., £82; further study in div., £5, health visitor's, £42 12s. Other courses: bar exams, £38.

**ACADEMIC YEAR.** Oct.-June 3 terms of 10 weeks each.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff,' above) *Continuant call.* Univ. dept. of educn. (dir. F. W. Lord, MSc PhD Lond.), Endsleigh Trg. Coll., Hull (principal: Mary Guy, MA Oxon.), Kingston upon Hull Trg. Coll. (principal: C. Bibby, MA Camb., MSc Lit., PhD Lond.). The inst., inaugurated in 1948, was founded to establish closer relationships with instns. in Hull and the neighbouring area specifically concerned with the trg. of teachers. Students of the inst. prepare for the grad. cert. in educn. or the cert. in educn. Other major activities of the inst. are the organization and provision of refresher and advanced courses for practising teachers, and the planning of educn. investigation and res. The inst. bldg. contains a common room, an exhibition room and a library of 24,000 books. Annual journal *Studies in Education*.

**ADULT EDUCATION** (see also 'Teaching Staff,' above) The dept. of adult educn. provides courses in a wide range of non-vocational subjs. for adults in Hull and the B. Riding, pts. of the N. Riding and Lincolnshire (Lincs.). It also arranges short residential courses throughout the yr. for members of H.M. forces. The panel of external lectrs. includes members of the univ. staff and other recognized teachers.

**SCHOLARSHIPS AND EXHIBITIONS.** The scholrs. exam. has been discontinued.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910.

**APPOINTMENTS BOARD.** The bd. advises students on the choice of careers and assists them

in obtaining appointments on the completion of their courses.

**RESIDENCE** (For wardens, see 'Admin. and Other Staff,' above) All full-time students must ordinarily live in one of the halls of residence or in approved lodgings unless living at home or with relatives. Halls for women—Clemenson Hall, Cottingham, Yorks., 130 places (tel. Cottingham 47326); Thwait Hall, Cottingham, Yorks., 171 places (tel. Cottingham 47410). For men—Ferens Hall (and hatted annex), Harland Way, Cottingham, Yorks., 223 places (tel. Cottingham 47396), Needler Hall, Cottingham, Yorks., 68 places (tel. Cottingham 47181). Fees: women, £146; men, £151, reduction of £6 for shared rooms.

**UNIVERSITY AIR SQUADRON.** The squadron, a regular unit of the R.A.F., is affiliated to the univ., membership is open to students who expect to be resident at univ. for a min. of a yr., and affords an opportunity for pilot and officer training at the squadron's airfield at Brough.

**UNIVERSITY HEALTH SERVICE.** The univ. has a student health service under a full-time med. officer. The service covers compulsory med. examination for new students, emergency attention as necessary, annual X-ray exam., etc. A new health centre near the main site was opened in 1961. It includes a sick-bay with 18-20 beds available for students in hall or lodgings.

**STUDENTS' UNION.** The students' union is the official orgn. to which all full-time students belong. Through cttcs. it arranges soc. and athletic events. The students' union bldg. contains common rooms, offices, and a refectory adjoining. The union co-operates with the univ. convocation in arranging an annual meeting.

**PUBLICATIONS.** *Calendar* (Sept.) 7s. 6d.; *Gazette* (once a term), pamphlets (free): *General Information*, *Regns. for BA*; *Regns. for BSc*; *Regns. for LL.B. and BSc(Econ)*; *Regns. for Higher Degrees*; *Regns. for Dipls. & Certs.*, Dept. of Educn.; *Requirements for Entry*, *Annual Report* (Jan.) free; *Abstracts of Theses* 5s., *Inaugural and other lectures* 2s. 6d. *Yorkshire Bulletin of Social and Economic Research* (half-yrly.) (jth. with depts. of econ. of Leeds and Sheffield) *Studies in Educn.* Torch (mag. of students' union) (3 times p.a.)

**UNIVERSITY BOOKSHOP.** A bookshop is maintained on the univ. site by a local firm.

**PUBLICATIONS COMMITTEE.** This cttce. of senate exists to arrange and assist publn. in co-operation with the Oxford Univ. Press of works of an academic nature by members of staff

## THE YEAR 1961

**RETIREMENTS.** Prof. E. B. Castle (educn.), Prof. T. E. Jessop (philos.); Prof. G. C. Steward (maths.).

**RESIGNATIONS.** M. S. Bradbury (lit. & drama), apptd. lectr., Birm.; S. G. Davies (law), apptd. dep. dir. & adviser, Brit. Inst. of Intenpt. &

Compar. Law, Dr J O Ellis (German), apptd. lectr, Edin., Dr H P Rademan (philos. & psychol.), apptd. sr lectr, Northampton Coll of Advanced Technol., London, Dr A M. Rees (Engl.), apptd lectr., Sussex; Mrs. M Wann (German), Miss R Woolf (Engl.), apptd tutor & lectr, Somerville Coll., Oxford, J E Coleclough (hist.), D F Rev (asst registrar), apptd asst reg & sec, Sch of Agric, Nott

HONORARY DEGREES LL.D.—Sir Hector Hetherington, formerly principal, Glas

#### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1250	22
Women	506	14
Total	1756	36

Distribution by Faculties. Arts, 613, sci, 771, soc sci & law, 409 Total 1792.

Included in the figures above are —

Postgraduate students, 173

New admissions, 632

Students from other countries, 127 (Countries from which largest numbers come Nigeria, 28, Ghana, 13)

DEGREES AWARDED (1960-61) Arts BA, 120, PhD, 2, MEd, 1 Sci BSc., 141, Phil, 13, MSc, 3 Soc sci. & law BA, 45, LL.B, 21, BSc(Econ), 14, MA, 2 Total number of first degrees awarded, 386

DEGREES AWARDED (1960-61). Adv. dipl in educn, 1, soc studies, 10

CERTIFICATES AWARDED (1960-61) Grad cert in educn, 110, health visitor's, 8; div (further study in), 1



# UNIVERSITY OF KEELE\*

Founded 1962, previously established as University College of North Staffordshire, 1949

Postal Address: Keele, Staffordshire, England

Telephone: Keele Park 371

CHANCELLOR—H.R.H THE PRINCESS MARGARET, COUNTESS OF SNOEDON

PRO-CHANCELLOR—Alderman Sir ALFRED OWEN, CBE, JP

DEPUTY PRO-CHANCELLORS—L. DAVIES, OBE, JP, Alderman G. L. BARBER, JP, Alderman Mrs. ADA CHADWICK

VICE-CHANCELLOR—H. M. TAYLOR, CBE, MSc N.Z., MA PhD Camb, FSA

DEPUTY VICE-CHANCELLOR—Professor S. E. FINLIE, MA Oxon, FRHistS

HONORARY TREASURER—A. P. WALKER, Hon. BA

REGISTRAR—J. F. N. HODGKINSON, MA Oxon.

LIBRARIAN—S. O. STEWART, MA Glas.

## TEACHING STAFF

(†=Part-Time)

### Biology

Gemmell, A. R., JP, BSc PhD Glas.,  
MS Mann.

Evans, R. G., MSc PhD Wales

Bedeck, Ruth M., MSc Lib., FLS

Pieck, R. L., BSc Lond.

Goodway, K. M., MA PhD Camb.

Campson, Mary, MSc PhD Lond.

Richards, K. Sylvia, MSc Manc.

Baker, C. J. E., BA Oxon

### Chemistry

Spragall, H. D., MA BSc DPhil Oxon,  
FRIC

McWeeny, R., BSc Lond., DPhil Oxon

Millar, I. T., BSc Lond., PhD Camb.,

FRIC

Plesch, P. H., MA Camb., PhD Manc.,

FRIC

Nyburg, S. C., BSc Lond., PhD Leeds

(on leave) Sr. Lectr.

Mortimer, C. T., MSc PhD Manc., FRIC

Jones, G., BSc PhD Sheff.

Cohen, D., BA PhD Camb.

Barrell, P., BSc Birm., PhD Camb.

### Classics

Charlton, J. M. T., MA Manc., BA Camb.,  
FSA

Rayne, R. N., DFC, MA Oxon.

Hill, E. R., MA N.Z. & Camb.

Nussebaum, G. B., BA R'dg., MA Birm.

Hall, A. S., BA Oxon., MA Aberd.

Roth, Audrey N. M., BA R'dg., MA Camb.

Gretton, M. P., BA Lond.

### Communication

MacKay, D. M., BSc St. And., PhD Lond.

Andrews, D. P., BA Camb., BSc Lond.

Jeffreys, D. A., BSc Lond.

### Economics

Hugh-Jones, E. M., MA Oxon

Lees, D. S., BSc(Econ) Lond., PhD Not.

Bonner, J., BSc(Econ) Lond., BPhil Oxon

Smyth, R. L., BComSc Belf.

Bhambhani, R. S., BA Pany, BSc(Econ) Lond.

Tipping, D. G., MA St. And.

Davison, J. P., BA(Econ) Durh.

Welham, P. J., BA Leeds

Hawkins, Barbara A. L., BA

### Education

Stewart, W. A. C., MA PhD Lond.

Halliwell, H. F., BSc Lond., FRIC

Perrott, Mrs. P. Elizabeth, MSc Wales,

PhD Manc., FLS

Charlton, K., MA EdB Glas.

\* Member of the Association of Universities of the British Commonwealth

Wilson, Mary H., MA Glas.,  
BSc(Econ) Lond.  
Paffard, M. K., BA Brit  
Centr., L. M., MA Lond.  
Hayley, H. W. B., BSc Lond

Lectr.  
Lectr.  
Lectr.  
{Lectr.

#### English Language and Literature

Lawlor, J. J., MA Oxon.  
Harvey, W. J., MA Oxon.  
Lloyd, M. W., MA BLitt Oxon  
Kilham, E. J., MA Lond  
Pearson, G., BA Oxon.  
Renn, Barbara, MA Lond  
Nellist, B. F., BA Hall

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

#### Geography

Beaver, S. H., MA Lond., FGS, FRMetS  
Williams, W. M., MA Wales  
Cole, Monica M., BSc PhD Lond., FRMetS  
Walton, A. D., BA Lond., MA Wits  
Naylan, J., BA PhD Burn.  
Turton, B. J., BSc PhD Nott.

Prof.  
Sr. Lectr.  
FRMetS  
Sr. Lectr.  
Lectr.  
Asst. Lectr.

#### Geology

Cope, F. W., DSc Manc., FGS  
Edey, C. S., MA DPhil Oxon., FGS  
Miles, T. G., MA Camb., FGS  
Burnaby, T. P., MA PhD Camb.  
Thomas, J. E., BA  
Park, R. G., BSc Glas.  
Reach, R. A., BSc PhD Nott.

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

#### History

Blake, J. W., MA Lond.  
Rolo, P. J. V., MA Oxon.  
Leach, H. R., MA Oxon.  
Nicholl, D., MA Oxon  
Hennock, E. P., MA PhD Camb.  
Adams, D. K., MA Camb., Yale & Oxon,  
DPhil Oxon  
McInnes, A. J. D. M., BA Wales  
Spafford, P., MA Camb.  
Field, F., BA Oxon

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

#### Mathematics

Jones, D. S., MBE, MA Oxon., DSc Manc  
(on leave) Prof.  
Smith, R. C., MSc PhD Lond  
Leebeck, H., MA Oxon., MSc Cape T,  
PhD Camb.  
Jordan, D. W., BSc Manc  
Smith, P., BSc PhD Nott  
Srinivasan, Mrs. Bhama, MA MSc Madr.,  
PhD Manc.  
Hall, I. M., BA Oxon

Prof.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

#### Modern Languages

Brooke, K., BA Burn.  
North, R. J., MA Lond.  
Broome, J. H., BA PhD Lond., DUParis  
(French) Lectr.

Prof.  
Prof.  
Lectr.

Subiotto, A. V., MA Lond. (German) Lectr.  
Murphy, Ruth, BA Sheff., DUParis  
(French) Lectr.  
Engel, Eva J., BA Lond., MA Camb.,  
PhD Camb. (German) Lectr.  
Holmes, F. A., BA Sheff., BLitt Oxon.  
(German) Lectr.  
Reed, J., BA Darb. (French) Asst. Lectr.  
Bodger, A., BA Lond. (Russian) Asst. Lectr.  
Osmond, N. H. H., BA Oxon.  
(French) Asst. Lectr.

#### Moral and Political Philosophy

Teale, A. E., BA Lond., BLitt Oxon.  
Atkinson, R. F., BA DPhil Oxon.  
Heathcote, A. W., BSc Burn., MA Camb.,  
BD MTh PhD MSc Lond.  
King, P. T., BA Fish, MA Lond.  
Cohen, Mrs. Brenda, BA Lond.  
Barry, B. M., BA Oxon

Prof.  
Sr. Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

#### Philosophy

Flaw, A. G. N., MA Oxon.  
Day, J. P., de C., MA BPhil Oxon.  
Harrison, A., BA Brit.  
Rogers, G. A. J., BA Nott.

Prof.  
Sr. Lectr.  
Asst. Lectr.  
Asst. Lectr.

#### Physics

Ingram, D. J. E., MA DPhil DSc Oxon.,  
FIP  
Davies, D. E., BSc PhD Wales, FIP  
Halloway, D. G., BSc PhD Brit.  
Hodgson, J. N., BSc Lond., PhD Camb.  
Surplice, N. A., BSc PhD Burn.  
Schlapp, D. M., MA PhD Camb.  
Lamé, D. C., BSc PhD Stron.  
Lancaster, G., BSc PhD Darb.  
Dimeson, G. A., BA  
Pettinson, E. B., BSc Wales

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.

#### Political Institutions

Finer, S. E., MA Oxon.  
Bealey, F. W., BSc(Econ) Lond.  
Cairns, Mary B., LL.M. Brit., PhD Lond.  
Glover, Mary R., MA Oxon  
Eves, J. S., DPhil Heidel., PhD Manc.  
Berrington, H. B., BSc(Econ) Lond.  
Blondel, J., LicentDroit Paris, BLitt Oxon.  
Angell, A. E., BSc(Econ) Lond.

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

#### Psychology

Hunter, I. M. L., BSc Edin., DPhil Oxon.  
Halmos, P., BA PhD Lond., DrJuris Bad.  
Iliffe, A. H., BA Rdy.  
(on leave) Lectr.

Prof.  
Sr. Lectr.  
Lectr.

#### Social Studies

Glover, Mary R., MA Oxon  
Dir. of Soc. Service Trg.

#### EXTRA-MURAL STUDIES

Shaw, R., BA Manc.  
Seringeour, C. A., MA Camb.  
Sr. Tutor

Beer, E. H., MA *Durk*  
 Cant, R. B., BSc(Econ) *Lead*  
 Chadwick, A. S., BA *Lead*, PhD *Col*  
 Colhams, S. W., MA DPhil *Oxon.*

Tutor Levitt, J. H., BA *Manc*  
 Tutor Lloyd, W. E., MA *Lea*  
 Tutor Stuart, D. G., MA *Lead*  
 Tutor Walden, A. B., BA *Oxon*

Tutor  
 Tutor  
 Tutor  
 Tutor

## ADMINISTRATIVE AND OTHER STAFF

Hon. Legal Adviser: H. Taylor. Hon. Architect: J. R. Piggott, FRIBA. Finance Officer: A. F. Booth, Asst. Registrar (Estates and Bldgs.). E. J. Hughes, DPA. Architect & Bldgs. Officer: J. A. Pickavance, FRIBA. Dep. Librarian: G. N. Howe, MA Camb. Asst. Librarian: A. E. Jeffreys, BA *Lead*. Accountant: W. Farrar. Principal's Sec.: D. Judith Samuel. Registrar's Sec.: Marion H. Bailey. Admin. Assts.: A. F. Tough, MA LLB *Aberd.*; Catherine M. Llewellyn Smith, MA *Oxon.*; N. R. Waller.

Wardens of Halls of Residence: R. N. Ryne, DFC, MA *Oxon.*; P. J. V. Role, MA *Oxon.*; J. P. de C. Dav., MA BPhil *Oxon.*; K. Sylvia Richards, MSc *Manc.*; Audrey N. M. Rich, BA *R'dy*, MA Camb. Dir. of Phys. Educn.: H. W. B. Hayles, BSc *Lead*. Appts. Sec.: H. R. Leach, MA *Oxon*. Coll. Med. Officer: J. Scott, MB ChB *Edin*. Domestic Bursar: Eileen M. F. Rolfe. Radiation Protection Officer: N. A. Surplice, BSc PhD *Birm*.

## GENERAL INFORMATION

The Univ. Coll. of North Staffordshire was founded by royal charter in Aug. 1949 and was opened in Oct. 1950. The coll. was succeeded by the Univ. of Keele, which was founded by royal charter in Jan. 1962. Situated at Keele Hall, where there is an estate of 640 acres, it is about 2 miles west of Newcastle under Lyme.

**CONSTITUTION.** Under the charter the governing body is the univ. court of governors. The council is responsible to the court for the management of the univ.'s affairs. The senate, an academic body consisting entirely of members of staff, controls, under the council, the academic affairs of the univ.

**INCOME (1962-63)** £430,000 (endowments, etc., 8.7 per cent.; fees, 9.1 per cent.; govt., 71.7 per cent.; local authorities, 10.1 per cent.; other income, 0.4 per cent.).

**BOARDS OF STUDIES (1962-63)** *Humanities:* chairman, Prof. K. Brooke (med. langs.); sec., chairman, Dr. D. E. Davies (phys.); *see also* chairman, Prof. A. E. Teale (metal & pol. physics).

**LIBRARY** 200,000 vols.

**LABORATORIES** Biol., chem., geog., geol., phys.

**ADMISSION.** *See* Appendix III.

**FIRST DEGREE AND DIPLOMA COURSES.** The 1st yr. of the 4-yr. course consists of a compulsory course of lectures identical for all students but with tutorial work adjusted to individual needs. This course is concerned with the heritage of civilization, present-day problems and the methods and influence of the experimental sciences. During the last 3 yrs., students must select not less than 4 subs., which must include at least 1 from the humanities and soc. scs., and at least 1 from the scs., 2 of these 4 subs. must be studied at principal level throughout the whole of

the 3 yrs. Subs. taken at subsl. level are studied for 1 yr. The BA degree is awarded with honours where sufficient merit is shown. During these last 3 yrs., an educational dipl. course may be taken concurrently with the BA studies. This dipl. is recognized by the Ministry of Educn. A social studies dipl. may also be taken with the normal BA studies.

**Transfer courses** are provided in the 1st yr. of the 4-yr. degree course to enable students with no sci. qualif. at G.C.E. advanced level to offer at least 1 sci. subj. as a principal subj.

**HIGHER DEGREES.** MA, MSc—not less than 1 yr. full-time or 6 terms pt.-time. PhD—not less than 2 yrs. full-time or 12 terms pt.-time. DLitt, DSc—on public contributions to knowledge.

**EXTERNAL DEGREES** are not awarded.

**AFFILIATIONS.** The coll. has reciprocal arrangements with both Swarthmore Coll., Pennsylvania, and Reed Coll., Oregon, by which one student is exchanged annually with each coll.

**FEES.** *Inclusive annual fee* (covering matric., registration, students' union, tuition, exam. and graduation fees), £75. *Residential fees*, £162 per session of 30 wks.

**ACADEMIC YEAR.** Oct. to June: 3 terms of 10 wks. each.

**POSTGRADUATE AWARDS** open to grads. of other univs. *see p. 950.*

**APPOINTMENTS BOARD.** (For appts. officer, *see* 'Admin. and Other Staff', above). The functions of the bd. are to provide information and advice on careers and to assist grads. of the univ. to obtain suitable employment.

**ASSOCIATION OF PAST STUDENTS.** The Keele Soc., an assoc. of past students and other members of the univ.

**RESIDENCE** (For wardens, see 'Admin. and Other Staff', above) The Univ. is entirely residential and only under exceptional circumstances is permission given for residence outside. There are at present 2 halls of residence, Lindsay Hall (tel. Keele Park 358 (Miss Richards)) for women students and Horwood Hall (tel. Keele Park 303 (Mr. Rolo, the Hawthornes), 384 (Mr. Rayne, Home Farm Residences) and 219 (Mr. Day)) for men students. *Address* (of both halls) Univ. of Keele, Keele, Staffs.

**STAFF RESIDENCES** It is intended to build residences for all teaching and some other staff. A vice-chancellor's residence, 65 new houses,

15 bungalows, 4 lodges and 19 staff flats are available.

**STUDENT HEALTH SERVICE** All students examined after admission by coll. med. officer. A bldg. is set apart as a sick bay. Resident matron-nurse.

**STUDENTS' UNION** Sep. bldg. available for students' union purposes. All students are members, the annual fee of £3 being included in the composite fee (see above). 26 acres of playing fields laid out within the estate.

**PUBLICATIONS** *Prospectus* (annual), *Calendar* (annual).

## THE YEAR 1961

**RESIGNATIONS** P. J. Norrish (French), apptd. prof., Well; A. Montefiore (moral & pol. philos.), apptd. fellow, Balliol Coll., Oxford; Alceo Eden (edson), apptd. principal, Hockesill Coll.; J. Forsyth (Russian), apptd. lectr., Glas.; T. A. Roberts (hist. theol.), apptd. lectr., Wales; E. K. C. Varty (French), apptd. lectr., Lesc.; M. F. Newman (maths.), apptd. lectr., A.N.U.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	468	—
Women	350	—
Total	818	—

*Included in the figures above are:—*

Postgraduate students, 42

New admissions, 226

Students from other countries, 26.

**DEGREES AWARDED (1960-61)** BA, 4; BA hon., 15.

**DIPLOMAS AWARDED (1960-61)** DipEd, 12; DipSocStud, 9.

## UNIVERSITY OF LEEDS\*

Founded 1954, previously established 1884, by amalgamation of the Yorkshire College (1874)  
with the Leeds School of Medicine (1831)

Postal Address: Leeds 2, England

Telephone (Registrar): Leeds 31751

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE PRINCESS ROYAL, CI, GCVO, GBE, Hon LLD *Leeds, Sheff., Camb, St. And, Manc, Hull, McG & Lond*, Hon. DCL *Oxon.*

PRO-CHANCELLOR—Brigadier J. N. TITLEY, DSO, TD, Hon. LLD

VICE-CHANCELLOR—SIR CHARLES R. MORRIS, KCMG, MA *Oxon.*, Hon. LLD *Manc.*, Hon. DLitt *Syd.*

—(from Oct. 1, 1963) SIR ROGER STEVENS, KCMG, BA *Oxon.*

PRO-VICE-CHANCELLOR—Professor R. H. EVANS, CBE, DSc *Manc.*, DSc *Glasg.*, PhD

TREASURER—The Rt Hon. THE EARL OF FRYERSHAM, DSO

REGISTRAR—J. V. LOACH, BSc PhD *Birm.*, FRIC

BURSAR—E. WILLIAMSON, TD, BSc(Econ) *Lond.*

LIBRARIAN—B. S. PAGE, MA *Birm.*

## TEACHING STAFF

[†=Part-Time]

<b>Agriculture, see below</b>		Hullin, R. P., MSc PhD <i>Wales</i> , FRIC	Lectr.
<b>Anatomy</b>		Wild, D. G., MA DPhil <i>Oxon.</i>	Lectr.
Durward, A., MD <i>N.Z.</i>	Prof.	Kenny, A. J., MB BS <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.
Boyd, G. I., MD, FRCSEd	Sr. Lectr.	Scott, T. A., BSc PhD	Lectr.
Walls, W. K. J., MB ChB	Sr. Lectr.	Mudgley, J. E. M., DPhil <i>Oxon.</i> , BSc	Lectr.
Sharp, J. A., MB ChB	Lectr.	Burch, Mrs. Jane E., BA PhD	† Lectr.
Burwell, R. G., BSc MD, FRCS	Lectr.	<b>Biophysics, Astbury Department of</b>	
Rudall, K. M., MSc <i>N.Z.</i> , PhD DSc	Hon. Lectr.	Preston, R. D., DSc PhD, FIP, FRS	Prof.
Balfourtyne, B., BSc MB ChB, MRCP	Demr.	MacArthur, J., MA BSc PhD <i>Glasg.</i>	Reader
Carter, D. A., MB ChB	Demr.	Rudall, K. M., MSc <i>N.Z.</i> , PhD DSc	Reader
Haworth, S. M., MB ChB	Demr.	Fries, Eva, DrScNat <i>Zur.</i>	Lectr.
Wood, J. G., MA BM BCh <i>Oxon.</i>	Demr.	Pentard, F. G. E., MSc <i>Birm.</i> , PhD	Lectr.
Agar, H., MB BS <i>Lond.</i> , BSc MB ChB, FRCS, FRCOG	Hon. Demr.	<b>Botany</b>	
<b>Applied Science, see Technology</b>		Manton, Irene, BA ScD PhD <i>Camb.</i> , Hon. DSc <i>McG.</i> , FRS	Prof.
<b>Architecture</b>		Sledge, W. A., BSc PhD	Sr. Lectr.
Leadon, D. L., MBE, FRIBA	Hoffman Wood Prof.	Harrison, Mrs. Edith, BSc <i>Darb.</i> , PhD	Lectr.
<b>Biochemistry</b>		Wesley, A., BSc <i>Lond.</i> , FGS	Lectr.
Happold, F. C., PhD DSc <i>Manc.</i>	Prof.	Lewis, J. D., BSc <i>Lond.</i> , PhD	Lectr.
Dagley, S., MA BSc <i>Oxon.</i> , DSc <i>Lond.</i> , FRIC		Bartley, D. D., BSc PhD <i>Wales</i>	Lectr.
(Physics-Chem. Aspects of B) Reader		Jennings, D. H., BA <i>Camb.</i> , MA DPhil <i>Oxon.</i>	Lectr.
Kilby, B. A., MA PhD <i>Camb.</i>	Sr. Lectr.	Leedrie, C. F., BSc PhD <i>Lond.</i>	Lectr.
Chataway, F. W., MSc PhD <i>Lond.</i>	Sr. Lectr.	<b>Chemistry, Inorganic and Structural, see also Technology—Colour Chem.</b>	
Bowen, T. J., MA BSc <i>Oxon.</i>	Sr. Lectr.	Irving, H. M. N. H., MA DPhil DSc <i>Oxon.</i> , FRIC	Prof., Chairman of Chem. Depts.

\* Member of the Association of Universities of the British Commonwealth

Bridley, R. S., MA ScD Camb., FRIC Reader  
 Trotter, Mrs. Mary R., BSc PhD Lond. Reader  
 Garrick, F. J., MA Oxon. Sr. Lectr.  
 Pringle, G. E., MA PhD Camb. Lectr.  
 Smith, J. A. S., MA DPhil Oxon. Lectr.  
 Robertson, J. H., BSc PhD Edu. Lectr.  
 (Mathl. Chem.) Lectr.  
 Munro, D. E., MA DPhil Oxon. Lectr.  
 Shaw, B. L., BSc MSc, DPhil Oxon. Lectr.  
 Pettit, L. D., MA DPhil Oxon. Asst. Lectr.

## Chemistry, Organic

Lythgoe, B., MA Camb., PhD Manc., FRSC Prof.  
 Rothstein, E., PhD DSc Lond. St. Lectr.  
 Brascoe, P. A., BSc Brit., PhD, FRIC Sr. Lectr.  
 Austin, A. T., MSc MEd, PhD Lond. Lectr.  
 Rayton, J. E., MA BSc DPhil Oxon. Lectr.  
 Rigby, W., BSc PhD Lond. Lectr.  
 Davies, D. L., BSc PhD Lond. Lectr.  
 Brook, P. R., BSc PhD Lond. Lectr.  
 Morrison, G. A., BSc PhD Glas. Lectr.

## Chemistry, Physical

Dainton, F. S., MA Oxon., ScD Camb., FRIC, FRSC Prof.  
 Gray, P., MA PhD Camb. Reader  
 Smith, G. F., PhD Wales & Camb. Sr. Lectr.  
 Bolton, J. W., PhD DSc Liv. Sr. Lectr.  
 Caldas, E. F., MA DPhil Oxon. Sr. Lectr.  
 Bunn, D., BSc PhD Sr. Lectr.  
 Carson, A. S., MSc Belf., PhD Manc. Sr. Lectr.  
 Collinson, E., MA PhD Camb. Sr. Lectr.  
 Ivin, K. J., BSc Lond., MA PhD Camb. Sr. Lectr.  
 Ayacough, P. B., MA PhD Camb. Lectr.  
 Glentworth, P., BSc PhD Liv. (Radiochem.) Lectr.  
 Walker, D. C., BSc St. And., PhD Brotherton Res. Lectr.  
 Henschman, M. J., MA Camb., PhD Yale Asst. Lectr.

## Classics: Greek

Davison, J. A., TD, MA Oxon. (on leave) Prof.  
 Parry, Olwen A., MA Camb., BA Lectr.  
 Rowe, K. R., MA Camb. Lectr.  
 Harrison, E. L., BA Manc., BLitt Oxon. Temp. Lectr.  
 Smart, J. D., BA Oxon. Asst. Lectr.

## Classics: Latin

Wood, E. J., MA Aberd. & Camb. Prof.  
 Binyon, D. E. F., MA Oxon. Sr. Lectr.  
 Martin, R. H., MA Camb., BA (Classics) Sr. Lectr., Sub-Dean, Fac. of Arts  
 Hartley, B. R., MA Camb., FSA (Romano-Brit. Archaeol.) Lectr.  
 East, D. C., MA PhD Camb. (Classics) Lectr.  
 Gottschalk, H. B., MA PhD Camb. (Classics) Lectr.

Flintoff, T. E. S., MA Oxon., DipEd Darh. (Classics) Lectr.

Commerce, see Econ.

Dentistry, see below

Economics and Commerce

Brown, A. J., MA DPhil Oxon. Prof., Hd. of Dept.  
 Hersford, M. W., MA Camb. (Econ. Hist.) Prof.  
 Turner, H. A. F., BSc (Econ) Lond., PhD Manc. (Indust. Relat.) Montague Burton Prof.  
 Sargan, J. D., MA Camb. Reader  
 Hare, A. E. C., MA Camb., PhD Lond. Sr. Lectr.  
 Hildmann, H. C., MA St. And. Sr. Lectr.  
 Sheard, P. M., BA Oxon. (Accty.) Sr. Lectr.  
 Newlyn, W. T., BSc (Econ) Lond. Sr. Lectr.  
 Bellamy, R., MA Oxon. Lectr.  
 Spaight, H., BA Lond. Lectr.  
 Rennie, G. F., MA Aberd. Lectr.  
 Whitaker, F. P. G., MA Oxon., SM M.L.T. (Indust. Management) Dir.  
 Sigsworth, E. M., BA PhD (Econ. Hist.) Lectr.  
 Williams, J. E., MA PhD Skeff. (Econ. Hist.) Lectr.  
 Snowball, S., FSAA (Accty.) Lectr.  
 Brothwell, J. F., BA Natl. Lectr.  
 Lowe, E. A., BSc (Econ) Lond. (Management Acctg.) Lectr.  
 Allen, V. L., BSc (Econ) PhD Lond. Lectr.  
 Wilkinson, R. K., BA Lectr.  
 Witty, A. G., BCom (Accty.) Asst. Lectr.

Education

Walsh, W., MA Camb. & Lond. Prof., Hd. of Dept.  
 Fletcher, B. A., BSc MA Lond. Prof., Dir. of Inst. of Educ.  
 Dep. Hd. of Dept.  
 Tate, W. E., BLitt Oxon., FSA Reader  
 Boulwood, Myrtle E. A., MA Lond. Sr. Lectr.  
 Ottaway, A. K. C., MA BSc Lond. Sr. Lectr.  
 Laing, A., MA EdB Aberd. Sr. Lectr.  
 Bosworth, Eugene M., MA Oxon. Lectr.  
 Martin, Audrey J. Lectr.  
 Wallbank, S. Anne, BSc Lond. Lectr.  
 Thompson, W. B., BA Manc. Lectr.  
 Hewitt, M. Sheila, BSc Lond. Lectr.  
 Stevens, R. T. H., MA MLitt Camb. Lectr.  
 Wise, A., DipDramatic Art Lond. (Speech R.) Lectr.  
 Gosden, P. H., MA Camb., PhD Lond. Lectr.  
 Layton, D., MA Camb., MSc Lond. Lectr.  
 Harding, D. H., MA Lectr.  
 Musgrove, F., BA Oxon., PhD Natl. Lectr.

Engineering, see Technology

### English Language and Mediaeval English Literature

- Ottam, H., BLitt MA Oxon Prof  
 Doyle-Davidson, W A G, BA Lond Sr Lectr  
 Taylor, A R, MA *Manc.*  
 Sr. Lectr, Supervisor of Icelandic Studies  
 Thomson, R L, BLitt Glas., MA  
 Lectr., Supervisor of Celtic Studies  
 Ellis, S, MA Lectr  
 Davenport, W A, MA Lond Lectr  
 ..... Asst. Lectr

### English Literature

- Jeffares, A. N., MA PhD Dub., MA  
 DPhil Oxon. Prof., Hd. of Dept  
 Grant, W D B, MA DPhil Oxon.  
 (American Lit.) Prof  
 Stevens, P. D., BA Lond  
 (Contemporary S.) Prof  
 Jefferson, D W., BLitt Oxon., BA Sr. Lectr  
 Kettle, A. C., MA PhD Camb. Sr. Lectr  
 Barber, C L, MA Camb Sr. Lectr  
 Over, G A, BA Lectr  
 Mann, J P, BA *Sheff* Lectr.  
 Hill, G. W., MA Oxon Lectr  
 Matthews, G M, MA BLitt Oxon Lectr  
 Millgate, M H., BA Camb Lectr  
 Spencer, J. W., MA Oxon Lectr  
 Sanderson, F S, MA Edin (Folk Life) Lectr.  
 Corder, S P, MA Oxon Lectr  
 Goss, A., MA N Z. Asst. Lectr.  
 ..... Asst. Lectr

### Fine Art

- Bell, Q. C. S., MA *Durk.* Prof., Hd. of Dept  
 Nouch, A., DLitt & Phil Assnt  
 (Hist. of Art & Archt.) Lectr.  
 Cameron, E., BA *Durk.* Lectr  
 Jones, J. E. Asst. Lectr

### French Language and Literature

- Clepton, G T, MA *Sheff* Prof., Hd. of Dept  
 Ullmann, S., PhD *Bud*, DLitt Glas  
 (Romance Philol.) Prof.  
 Rothwell, W, MA Oxon., DU Paris  
 (Mediaev. French) Reader  
 Bens, T V, BA PhD Sr. Lectr  
 Hannamorth, G., DU Paris, MA Sr. Lectr.  
 Coors, Mrs Cynthia M, MA Camb,  
 PhD Lond. Sr. Lectr  
 Ireland, G W., MA Edin. Lectr  
 Ireson, J. C., MA Lond Lectr  
 Thys, Marie-Louise, L&L Paris Lectr.  
 Hiddleston, J. A., MA PhD Edin Lectr.  
 Wetherill, P M., MA *Birm.* Lectr  
 Dryhurst, J., BA *Leu* Asst. Lectr.  
 Porter, Annette, BA Lond Asst. Lectr  
 4 Lecteurs/Lectrices

### Geography

- Dickinson, R E., PhD Lond, MA Prof  
 Fowler, F J, BA PhD Sr. Lectr.  
 Jones, G. R. J., MA *Wales* Lectr.

- Leeming, F. A., BA Camb Lectr  
 Eyre, S R., BSc Lond., PhD *Sheff* Lectr.  
 Palmer, J., BA Camb Lectr.  
 Dickinson, G C, MA Camb Lectr  
 Garner, B J, BA *Nott*, MA  
 PhD *Northeastern* Asst. Lectr.  
 Pieston, D A., BA *Sheff*, MSc III,  
 PhD Lond. Asst. Lectr

### Geology

- Kennedy, W Q, DSc Glas, FRG  
 Prof., Hd. of Dept & Dir, Inst. of  
 African Geol.  
 Shackleton, R M., BSc PhD *Leu*, FGS Prof.  
 Hartley, J, BSc, FGS Sr. Lectr.  
 Rayner, Dorothy H., MA PhD Camb. Lectr  
 Turner, J S, MSc Lond., FGS  
 (Palaeontol.) Lectr.  
 Harris, P. G., MSc N Z., PhD  
 (Geochem.) Lectr.  
 Gregory, W. C., BSc Lond. Lectr.  
 Gaskin, A. R. J., MA BSc Oxon, FGS Lectr.  
 Gass, I G, MSc PhD Lectr  
 Von Knorring, O, MSc *Helsinki*, PhD Lectr.  
 Wood, D, BSc *Leu* Asst. Lectr.

### Oppenheimer Geological Fellows

- Clifford, T. N., BSc PhD  
 Johnson, R L., BSc PhD  
 Vail, J R, MSc *Br Col*, PhD  
 Cox, K G, MA Oxon, PhD  
 Harrington, G, BSc  
 Workman, D. R., BSc PhD

### German Language and Literature

- Gilles, A., MA *Sheff*, DrPhl *Göt* Prof  
 Wallace, J R, MA *Aberd*, BA Camb. Sr. Lectr  
 Brahms, Irlas W, MA *Aberd*. Lectr  
 Hargreaves, R, BA Lectr  
 Rasmussen, H., MA Glas Asst. Lectr.  
 Pollard, K G, BA *Ston* Asst. Lectr  
 1 Lektorin

### History

- Le Patourel, J, MA DPhil Oxon  
 (on leave) (Mediaev. H.) Prof., Jt. Hd.  
 of Dept  
 Taylor, A J, MA *Manc.*  
 (Mod. H.) Prof., Jt. Hd. of Dept  
 Jones, P J, MA DPhil Oxon  
 (Mediaev. H.) Reader  
 Woolrych, A H., BLitt MA Oxon.  
 (Mod. H.) Sr. Lectr.  
 Cox, J W, BA (Mediaev. H.) Lectr.  
 Taylor, J, MA Oxon. (Mediaev. H.) Lectr  
 Forster, G C F, BA (Mod. H.) Lectr  
 Read, D., BLitt MA Oxon. (Mod. H.) Lectr.  
 Cobb, R C., MA Oxon. (Mod. H.) Lectr.  
 Baynton, L O. G., MA Oxon. (Mod. H.) Lectr.  
 Wangemann, B, MA DPhil Oxon.  
 (Mod. H.) Lectr  
 Platt, C. P. S., MA Oxon. (Archaeol.) Lectr.

Woods, J. A., MA Camb, PhD Roch  
(American H.) Lectr  
Taylor, B., BA Oxon (Mod. H.) Asst. Lectr

## History of Science

Gregory, J. C., BSc Lond, FRIC Hon Lectr

## Italian Language and Literature

May, F., BA Lond. Sr. Lectr., Hd. of Dept.  
Dego, G., Dott. Lett. & Fil. Milan Asst. Lectr.  
Lattore, Asst. Lectr.

## Law

James, P. S., MA Oxon. Prof., Hd. of Dept.  
Fitzgerald, P. J., MA Oxon. Prof.  
Horsley, G., LL.M. Lectr.  
Davies, M. R. R., PhD Camb, LL.M. Lectr.  
Brown, D. J. L., BA LL.B Camb. Lectr.  
Parker, D. B., LL.B Lond & Camb. Lectr.  
Schofield, F. J., BA LL.B Camb. Lectr.  
Crotty, P., LL.B. † Lectr.  
Lonsdale, A., MA Oxon. † Lectr.  
Toeman, R., LL.M. † Lectr.  
Glover, G. N., LL.B. † Lectr.  
Wagstaff, D. St. J. R., MA LL.B Camb. † Lectr.  
Vellins, I., BA Oxon. † Lectr.

## Mathematics

Ruse, H. S., MA Oxon, DSc Edin. (Pure M.) Prof., Hd. of Dept.  
Cowling, T. G., MA DPhil Oxon., FRSE (Appl. M.) Prof.  
Craggs, J. W., BSc Manc., PhD Manc. & Camb. Prof.  
Ursell, H. D., MA Camb. (Mathl. Analysis) Reader  
Welch, B. L., BA Oxon, PhD Lond (Stats.) Reader  
Perrott, I. B., MA Oxon. Dir. of Undergrad. Studies  
Price, H. L., MA Camb, MSc PhD (Appl. M.) Sr. Lectr.  
Barrett, W., BA Oxon, DU Pers. (Pure M.) Sr. Lectr.  
Lob, M. H., MA PhD Lond (Pure M.) Lectr.  
Maude, R., MSc PhD Lond. (Pure M.) Lectr.  
Zobel, A., BA PhD Lond. (Pure M.) Lectr.  
Wallace, E. W., BSc PhD Lps. (Pure M.) Lectr.  
Bowers, J. P., MSc PhD (Pure M.) Lectr.  
Rose, H. E., BSc PhD Lps. (Pure M.) Lectr.  
Tempest, R. K., MSc PhD Lau. (Appl. M.) Lectr.  
Cornish, F. H. J., BA DPhil Oxon. (Appl. M.) Lectr.  
James, G. S., BA Camb. (Stats.) Lectr.  
Trickett, W. H., MSc (Stats.) Lectr.  
Evans, D. H., Albert Medal, MA Oxon., BSc Wales. † Lectr.  
Brimley, J., BSc PhD Lond. (Appl. M.) Lectr.  
Cumberbatch, E., BSc PhD Manc. (Appl. M.) Lectr.  
Meek, B. L., MSc Lond. (Appl. M.) Lectr.

Crupper, G. D., BSc PhD Manc. (Appl. M.) Lectr  
Cornwell, J. F., BSc PhD Lond. (Appl. M.) Lectr.

Ashton, K., BSc Manc. (Pure M.) Asst. Lectr.  
Maddon, I. J., BA N Staffs, PhD Brim. (Pure M.) Asst. Lectr.  
Hart, R., MA Edin. (Pure M.) Asst. Lectr.  
Talbot, T. D., BSc PhD Lond. (Pure M.) Asst. Lectr.  
Ferra, A. J., BSc Eve. (Appl. M.) Asst. Lectr.  
Ronsilly, N., DSc Lps. (Appl. M.) Asst. Lectr.  
Peera, H. W., BSc (Stats.) Asst. Lectr.  
.. (Stats.) Asst. Lectr.

## Electronic Computing Laboratory

Cook, G. B., MA PhD Camb. Dir.  
Reeves, C. M., MA PhD Camb. Dep. Dir.  
Wollenden, K., BSc MA Oxon. Lectr.  
Wells, M., BA Camb. Lectr.  
Horns, R. W., MA Edin. Asst. Lectr.  
Wren, A., MA Edin. Asst. Lectr.  
J. Computing Assts.

## Medicine, see below

## Metallurgy, see Technology (Appl. Sci.)

## Mining, see Technology

## Music

Denny, J. R., MBE, MA MusB Camb. West Riding Prof.  
Allam, E., MA Camb, DMus Lond. (Composition) Reader  
Munby, F. S., BMus Durb. & Lond., BA Lectr.  
Brown, J. C., MA MusB Camb, FRCC Lectr. & Univ. Organist  
McDougall, J., MA PhD Camb. (Acoustics) (also Phys.) Lectr.

## Pharmacology

Wood, D. R., BM BCh BSc MA Oxon. Prof.  
Mogey, G. A., MD Belf. Sr. Lectr.  
Bosley, K. A., MD Lectr.  
Mockay, D., BSc PhD Aberd. Lectr.  
Clark, E. R., BPharm Wales, PhD Lond. (Pharmacol. Chem.) Lectr.  
Kaye, R. C., BPharm PhD Lond. (Pharmaceutics) Lectr.  
Nelson, G. A., MSc PhD, FLS. (Pharmacog.) Lectr.  
Abbs, E. T., BSc (Pharmaceutics) Asst. Lectr.

## Philosophy

Cameron, J. M., MA Oxon. Prof., Hd. of Dept.  
Hunter, G. B. B., MA Oxon. Lectr.  
Rees, W. J., BA Wales, MA Oxon. Lectr.  
Ravens, J. R., BA Swarthmore, PhD Camb. (Hist. & P. of Sci.) Lectr.  
Malligan, M. G., BA Oxon., MA Edin. Lectr.  
Cardwell, D. S. L., BSc PhD Lond. Lectr.  
Long, P., BA Lond., MA Camb. Lectr.



Ishiguro, H., BA Tokyo, BPhil Oxon  
Potts, T. C., BA Oxon

Lectr  
Asst Lectr

### Phonetics

MacCarthy, P. A. D., MA Camb

Sr Lectr, Hd of Dept

Woodhead, J. L., MA Camb

Lectr

Short, Marion A., MA Educ

Lectr

Spicer, A., BA Lond

Lectr

Hordman, Beatrice, MA Cape T

Lectr

### Physical Education

Morgan, R. E., BA Lond

Adamson, G. T., BSc Lond

Mitchell, K. K.

McKilvie, Christine

Whiting, H. T. A.

Schofield, Muriel

Dir.

Lectr.

Lectr.

Asst.

Asst.

Asst.

### Psychology

Meredith, G. P., PhD Lond, MSc Med,  
FBPaS

Prof

Harper, R., MSc Manc, PhD R'adg,

FBPaS

Lectr

Davis, P. P., BA PhD Not.

Lectr

Holding, D. H., MA Educ., PhD Durh

Lectr

Pitchatt, D., BSc Birm & Lond

Lectr

### Russian Language and Literature

Borras, F. M., MA Oxon

Sr. Lectr., Hd. of Dept.

Dressler, A., BA

St. Lectr

Waring, A. G., BA Manc

Lectr

Binyon, T. J., BA Oxon

Asst Lectr

Shotton, M. H., BA Oxon

Asst Lectr

Johnson, C. A., BA Oxon

Asst Lectr

1 Lectr

### Physics

Stoner, E. C., BA ScD Camb., FIP,

FRS, Cavendish Prof., Hd. of Dept.

Wilson, J. G., MA PhD Camb, FIP

Prof

Heare, F. E., MSc PhD Lond, FIP

Reader

McDougall, J., MA PhD Camb

St. Lectr.

Curry, C., BSc PhD Lond

Sr. Lectr.

MacKinnon, L., MA PhD Camb

Sr. Lectr.

Kellermann, E. W., DPhil Vienne,

PhD Edu., FIP

Sr. Lectr.

Maroden, P. L., BSc Birm., PhD

Lectr.

Rhodes, P., BSc Ph.D

Lectr.

Seymour, E. F. W., MA DPhil Oxon.

Lectr.

Hodson, A. L., MSc PhD Manc.

Lectr.

Youell, R. F., BSc Lond., PhD

Lectr.

Tennant, R. M., DIC, BSc PhD Lond.

Lectr.

Manuel, A. J., BSc PhD Lond

Lectr.

Thompson, B. J., BSc PhD Manc.

Lectr.

Moody, D. E., BSc PhD

Lectr.

Gregg, D., BSc St. And., PhD Aberd.

Lectr.

Hallas, A. M., BSc PhD

Lectr.

Nisbett, D. H., MA DPhil Oxon

Lectr.

Read, D. A., BSc Sheff

Lectr.

Hallam, G. C., BSc Sheff.

Lectr.

Griffiths, W. K., BSc PhD Not.

Asst. Lectr.

Reid, R. J., G., BSc Belf., PhD Dub

Asst Lectr

..

Asst Lectr.

### Physiology

Hemingway, A., MSc MB ChB

Prof.

Nolue, H. R., MA BSc Aberd

Sr. Lectr.

O'Connor, W. J., MA Camb,

MD Adel.

Sr. Lectr.

Landon, R. J., MB ChB PhD

Sr. Lectr.

Allen, W. J., MD Belf

Lectr.

Newman, F. P., MD Lau.

Lectr.

Kidd, C., BSc PhD Durh.

Lectr.

Paul, D. H., BSc PhD Lond

Lectr.

Leedsome, J. R., MB ChB Edu.

Demr

Matthews, D. L., BSc MB ChB

Demr.

Portuguese, see Spanish

### Semitic Languages and Literatures

Isserlin, B. S. J., MA Educ. & Econ., BLitt

DPhil Oxon. Sr Lectr., Hd. of Dept

..... (Mediev & Mod. Hebrew) Montague

Burton Visiting Lectr.

Lowy, S., MA Jerusalem

Lectr.

Mackinnon, Rev. J., MA BD Glas.

BTM U.T.S. (N.Y.), PhD

1 Lectr

1 Lectr

### Social Studies

Grebenski, E., MSc(Econ) Lond.

Prof., Hd. of Dept.

Hanson, A. H., MA Oxon

(Pub. Adm'n) Reader

Wiseman, H. V., MA Oxon.

BSc(Econ) Lond., PhD

Vaughan, E. A., BCom Durh

Henniques, L. F., MA DPhil Oxon.

(Soc Anthropol) Lectr.

Head, W. G., BSc(Econ) Lond

Slaughter, C., BA Camb

Cock, Mrs. Ida E., MA Sheff

Collins, Mrs. C. Doreen E.,

BSc(Econ) Lond

Dodd, C. H., BA Wales, MA Educ

(on leave) (Pol) Lectr.

Grossman, J., BA Chic

Jepson, N. A., BA Manc., PhD

(Criminol) Lectr

Kirk, M., MA

Marina, H. O., BSc(Econ) Lond

(Sociol) Lectr

Goldthorpe, J. E., MA Camb, BSc(Econ)

PhD Lond

Rowntree, Oswald, MA Oxon

Robertson, R., BSc(Econ) S'lon.

(Sociol.) Asst. Lectr

(Sociol.) Asst. Lectr

### Spanish and Portuguese Languages and Literatures

Brown, R. F., MA PhD Lis

McCrindle, Verena N. R., MA Birm.

Cowdroy Prof. Lectr

Davies, G. A., MA DPhil Oxon.  
 Smith, C. C., MA PhD Camb.  
 Garrad, K., MA PhD Camb.  
 Berango Marcos, M., F&L&L Soc. Sec.  
 Kates, L. W., MA BSc.  
 1 Lecturer, 1 Lecturer

Lectr. Agricultural Chemistry  
 Lectr. Wilcox, J. S., BSc Lond., FRIC  
 Lectr. Townsend, W. N., BSc  
 Lectr. Swann, D. A., BSc R'dg.  
 Lectr. Lox, G. R.

Sr. Lectr.  
 Lectr.  
 Lectr.  
 Analyst

Technology, see below

Textile Industries, see Technology, below

### Theology

Tinsley, Rev. E. J., MA BD Durb. Prof.  
 Barclay, Rev. R. A., MA BD Edin.  
 (O.T. Studies, Bibl. Hebrew &  
 Hist. of Relig.) Sr. Lectr.  
 Higgins, Rev. A. J. B., MA BSc Lond. (N.T.) Sr. Lectr.  
 Ph.D. Manc.  
 Walker, Rev. G. S. M., MA Oxon., BD  
 Ph.D. St. And.  
 (Church Hist. & Doctrine) Lectr.  
 Lowe, A. D., BA Durb. Asst. Lectr.  
 7 Assoc. Lectrs. in local Theol. Colls.

Zoology, see also Agriculture, below

Dodd, J. M., BSc Lond., Ph.D. St. And. Prof.  
 Kerr, T., MA DSc Glas. Reader  
 Henson, H., DSc Ph.D. Bern. St. Lectr.  
 Broadhead, E., MA BSc DPhil Oxon. Sr. Lectr.  
 Brust, Jean, BSc R'dg., Ph.D. Lectr.  
 Werth, Irene, MA Oxon. Lectr.  
 Owen, R. W., MSc Ph.D. Wales Lectr.  
 Lewis, J. R., BSc Ph.D. Wales Lectr.  
 Jennings, J. B., BSc Ph.D. Lectr.  
 Chadwick, A., BSc Brust, Ph.D. Brust. &  
 Lectr. Lectr.

### AGRICULTURE

Bywater, T. L., BSc Wales, MS Wis. Prof., Hd. of Dept.  
 Wigglesworth, V. B., CBE, MA MD Camb., FRS. Clive Behrens Lectr.  
 Holaday, R., BSc Sr. Lectr.  
 Boaz, T. G., MBE, MA DipAgric Camb. Sr. Lectr.  
 Dalley, J., BSc Lectr., Farm Dir.  
 Proud, J. R., BSc Lectr., Dep. Farm Dir.  
 Hodgson, D. R., DipAgric Camb., BSc (Crops Husb.) Lectr.  
 Dalton, D. C., BSc R'dg., Ph.D. Wales Lectr.

### Agricultural Bacteriology

Wolf, J., MSc R'dg. Sr. Lectr.  
 Barker, A. N., MSc Ph.D. Lectr.

### Agricultural Botany

Weston, J. H., BSc Ph.D. Wales Prof.  
 Jones, A. P., MSc Wales Lectr.  
 Harbord, D. J., MSc Wales Lectr.  
 Wren, Margery J., BSc Ph.D. Manc. Asst. Lectr.

### Agricultural Economics

Long, W. H., MA Oxon. Sr. Lectr., Principal Agric. Economist  
 Jeffrey, A. G., BCom. Sr. Lectr.  
 Marsh, A. A., BSc(Agric) R'dg., DipAgric Econ. Oxon. Lectr.  
 Butler, J. B., MSc Lond., MCom. Bern. Lectr.  
 Clarke, G. B., BSc(Econ) Lond., DipAgric Camb. Lectr.  
 Black, C. J., BSc Lond., BLitt. DipAgric Econ. Oxon. Lectr.  
 Wyatt, A. J., BSc Lond. Lectr.  
 Simpson, I. G., MSc R'dg. Lectr.  
 Simpson, Mrs. Mary C., BSc(Econ) MSc(Agric) Lond. Lectr.  
 6 Investigational Assts.

### Agricultural Zoology

Gibson, N. H. E., BSc Lond., Ph.D. Lectr.  
 Whittington, B., BSc Ph.D. Stgff. Lectr.

### Veterinary Science

Towata, K. G., BVSc Liv. Lectr., Vet. Officer

### DENTISTRY

#### Anaesthetics, General

Harbord, R. P., MD Lond., FFARCS Lectr.

#### Children's and Preventive Dentistry

Jackson, D., DDS LDS Manc. Sr. Lectr.

#### Dental Anatomy, Physiology and Histology

Saunders, M., BChD LDS, FDSRCSed Lectr.

#### Dental Materials, Chemistry and Physics of

Roberts, Prof. A. L., BSc Ph.D., FRIC Lectr.  
 Walton, A. W., BSc Lectr.  
 Worrall, W. E., MSc Ph.D. Lectr.  
 Feltham, P. A., MSc Ph.D. Lond., DSc Lectr.

#### Dental Radiology

Winn, J. M., BA Camb. Lectr.  
 Copland, J., MChD LDS †Lectr.

#### Dental Surgery

Hopper, F. E., MDS Durb., FDSRCS Prof., Hd. of Dent. Sch.  
 Crabb, H. S. M., MDS Lond., Ph.D. Brust., FDSRCS (Conservative D.) Prof.  
 Wigglesworth, J., BChD, FDSRCS Sr. Lectr.  
 Haylings, R. T., MB ChB BChD LDS Lectr.

Davidson, P. R., LDS  
 MacGregor, A. J., BDS *Dent.*, FDSRCS Lectr.  
 Davies, D., MB ChB BDS *Manc* Lectr.  
 Johnson, H. G. L., LDS Clin. Lectr.  
 Brook, F., FDSRCSed Clin. Lectr.  
 Cock, D. J., LDS Clin. Lectr.  
 Palmer, E. K., LDS (Gen. D. Practice) Lectr.

**Forensic Medicine**  
 Polson, C. J., MD *Birm*, FRCP Prof.  
 Hunsworth, D., MB ChB Lectr.  
 Gee, D. J., MB BS *Lond* Lectr.  
 Dalley, R. A., FRIC (Toxicol.) Hon. Demr.

**Oral Biology**  
 Weidmann, S. M., *Delag T.H. Darmstadt*, PhD Sr. Res. Fellow

**Medical Physics**  
 Speers, F. W., PhD DSc *Bom* Prof.  
 Hay, G. A., MSc *Durb.* Sr. Lectr.  
 Reed, G. W., MSc Lectr.  
 Haphut, F., BA *Cambr*, MSc PhD *Nott.* Lectr.

**Orthodontics**  
 Haynes, S., BChD LDS Lectr.  
 Jason Wood, T., BChD Clin. Lectr.

**Prosthetic Dentistry**  
 Woodhead, C., LDS Sr. Lectr.  
 Thornham, C. B., BChD LDS Lectr.  
 Southam, F. L., LDS Sr. Hosp. Dent. Officer  
 Newbould, K. M., BChD LDS Lectr.

**Medicine and Clinical Medicine**  
 Tunbridge, R. E., OBE, JP, MD MSc, FRCP Prof.  
 Hartfall, S. J., TD, BSc MD, FRCP (Clin. M.) Prof.

Taverner, D., MBE, MD Reader  
 Fountain, J. R., MB ChB *Edin.* Lectr.  
 Bingle, J. P., MA BM BCh *Oxon*, MRCP Sr. Registrar, Tutor  
 Helles, F. P., OBE, MA *Cambr*, MD *Lond.*, FRCP (Dermatol.) Sr. Clin. Lectr.  
 Towers, J. R. H., MA MD *Cambr*, FRCP Sr. Clin. Lectr.

### MEDICINE

(for subjects of first a yrs — Anat., etc., see above)

**Anaesthetics**  
 Harbord, R. P., MD *Lea*, FFARCS Reader  
 Harrison, Gwendolen, MB ChB, FFARCS Sr. Clin. Lectr.

**Clinical Lecturers**  
 Lawrence, R. C., MB ChB, FFARCS  
 Harris, R. L. H., MB BS *Lond*, FFARCS  
 Hawthorne, A. T., MB BCh BA O *Belf.*, FFARCS  
 MacIntosh, F. G., MB ChB *Aberd.*, FFARCS  
 Smith, Mrs. Doris N. Ambury, FFARCS  
 Young, D. S., MB ChB, FFARCS  
 Ablett, J. J. L., MB BS *Lond*, FFARCS  
 Lecturer  
 Webb, S. J. S., MB ChB BSc *N.Z.*, FFARCS

**Bacteriology**  
 Oatley, C. L., MD BS DSc *Lond.*, FRS  
 Johnstone, K. I., BSc MB ChB PhD Brotherton Prof.  
 (Pub. Health B.) Reader  
 Zimmetmann, K. S., MD *Frank.*, MSc Sr. Lectr.  
 Czekalski, J. W., MD DTM&H *Edin.* Sr. Lectr.  
 Nielsen, D. E., BSc PhD *Lond.*, FRIC Lectr.  
 La Touche, C. J. P., MSc *Dub.* (Med. Mycol.) Lectr.

Wilks, A. T., MB BS *Meib.*, PhD Lectr.  
 Jacobs, S. J., MB ChB Lectr.  
 Eaves, G., BSc *Manc.*, PhD (Electron Microscopy) Hon. Adviser  
 Wotherspoon, A., MB ChB Demr.  
 .... Demr.

**Cancer Research**, see Pathol., Experimental

**Obstetrics and Gynaecology**  
 Scott, J. S., MD *Glas.*, FRCSEd Prof.  
 Lister, Ursula M., MD *Lond.*, FRCSEd, FRCOG Sr. Lectr.  
 Currie, D. W., MD ChM, FRCOG (Obstet.) Sr. Clin. Lectr.  
 Agar, H., MB BS *Lond.*, BSc MB ChB, FRCS, FRCOG Clin. Lectr.

Farquhar, J. B., MB ChB *Birm.*, FRCS,  
FRCOG Chn. Lectr.  
MacDonald, R. R., MD *Glas.* Lectr.  
Theobald, G. W., MA MD BChr *Cambs.*,  
FRCSed, FRCOG Hon. Lectr.  
Redman, T. F., TD, MB ChB *Manch.*,  
FRCSed, FRCOG  
Eddie, D. A. S., MB BS *Lond.* †Lectr.

### Pædiatrics and Child Health

Craig, W. S., BSc *Glas.*, MD *Edin.*,  
FRCP Prof  
Alibone, E. C., PhD *Birm.*, MD DPM,  
FRCP Sr. Clin. Lectr.  
Buchanan, M. F. G., MB ChB *Edin.* Lectr.  
Lewis, G. M., MB BS DCH *Lond.* Lectr.  
MacKinnon, Mrs. Joan M.,  
MB ChB *Edin.* †Lectr.  
Hillingworth, Eugene C., BSc MD Hon. Demr.  
Littlewood, J. M., MB ChB Sr. Registrar, Tutor

### Pathology

Lumsden, C. E., MD *Aberd.* Prof.  
Sutherland, T. W., MD Sr. Lectr.  
Harriman, D. G. F., MD *Belf.*  
(Neuropathol.) Sr. Lectr.  
McIlver, J. E., BA MD *Cambs.*  
(Hematol.) Sr. Lectr.  
Wright, C. J. E., MD MSc Sr. Lectr.  
Goldie, W., MA MB ChB *Aberd.* †Lectr.  
Thompson, H., MD *Glas.* Lectr.  
Anderson, C. K., MB ChB *St. And.* Lectr.  
Shiel, F. A. O'M., MB BCh BAO  
BSc N U.I. Lectr.  
Woods, C. G., MB ChB BSc Lectr.  
Losemore, N., MD (Gynaecol. P) †Lectr.  
Wallis, R. A., MD DSc *Medb.*, FRCP  
Shone, J. A. V. Enter. Prof., Hon. Res. Fellow  
(Blood Trans.) Lectr.

### Pathology, Chemical

Lathe, G. H., MSc MD CM PhD *McG.* Prof.  
Anderson, W. N., BSc PhD *Belf.* Lectr.  
Hargreaves, T., MB BS BSc *Lond.* Lectr.  
Jones, K. M., MSc *Wales* Lectr.  
Payne, R. B., MB BCh *Wales* Lectr.  
Toothill, C., BSc *Lond.*, PhD Lectr.  
Levill, M. J., MA *Cambs.* Temp. Lectr.  
Park, Dorothy C., MSc *Durh.* Demr.

### Pathology, Experimental and Cancer Research

Green, H. N., MA *Cambs.*, MD MSc *Sheff.*  
(Exper. P) Prof., Dir. of Cancer Res.  
... Aast. Dir. of Cancer Res.  
Bonser, Mrs. Georgiana M., MD *Manch.*,  
FRCP (Cancer Res.) Reader  
Stickland, L. H., MA PhD *Cambs.*  
(Exper. Biochem.) Sr. Lectr.  
Laws, J. O., MA MB BChr *Cambs.*,  
PhD *Lond.* Lectr.  
Clayton, D. B., BA *Oxon.*, PhD Lectr.  
..... Lectr.

Eaves, G., BSc *Manch.*, PhD  
(Electron Microscopy) Hon. Advser  
8 Res. Assts.

### Preventive Medicine and Public Health, see also Pathol.

Bradshaw, D. B., MA MB BCh BAO  
DPH *Dub.* (Pub. Health) Prof.  
McPhail, A. N., MC, MD DPH *Glas.* Sr. Lectr.  
Sutherland, R., MD DPH *Aberd.* Sr. Lectr.  
Stell, R. J., MA MB BChr *Cambs.* Hon. Lectr.  
†Lecturers (Public Health)  
Jones, J. A. L. V., CBE, JP, MB ChB *Glas.*  
Taylor, A. L., MD DPH *LDS*  
Welch, G. E., MB BS *Durh.*, DPH  
†Demonstrator (Public Health)  
Lyons, J., MB ChB DPH  
Jamieson, J. G., MA BM BCh *Oxon.*  
†Instructors (Public Health)  
Goodfellow, J.  
Dulley, R. A., FRIC

### Psychiatry

... Nuffield Prof., Hd. of Dept.  
Wood, E. A. M., MB ChB *Edin.*, MRCPed  
Sr. Lectr.  
Whyte, Marion B. II., MA *Edin.* Sr. Lectr.  
(Psychiatric Soc. Work) Lectr.  
Young, A. J., MA *Cambs.*, BEd *Edin.*  
(Chn. Psychol.) Lectr.  
Webster, R. G., MA *Aberd.*  
(Clin. Psychol.) Lectr.  
Roberts, J. M., MD *Edin.*, DPM †Lectr.  
Valentine, J., MB ChB *Glas.*, DPM *Lond.*  
Markille, R. R. D., MB BS DPM *Lond.* †Lectr.  
Little, J. C., MB ChB *Birm.*, DPM *Durh.* †Lectr.  
Atkinson, M. W., MB ChB DPM

Sr. Registrar, Tutor  
Guntrop, Rev. H. J. S., BA BD PhD *Lond.*

Psychiatrist  
Newbigin, Nancy, MA *Oxon.*  
Psychiatric Social Worker

### Radiology and Radiotherapy

Johnstone, A. S., MD *Edin.*, DMRE *Cambs.*,  
FRCSed, FFR (Radiodig.) Prof.  
Hillingworth, G. H., MA *Oxon.*, DMR *Edin.*,  
MD (Radiodig.) †Lectr.  
Nuttall, J. R., MD *Manch.*, FFR  
(Radiother.) Sr. Clin. Lectr.  
Hugh, A., MB BCh *Wales*, MRCP, FFR  
Res. Fellow

### Surgery

Golghor, J. C., ChM *Edin.*, FRCS  
Prof., Hd. of Dept.  
Pyrah, L. N., CBE, MSc ChM, FRCS  
(Urol. S.) Prof.  
Duthie, H. L., ChM *Glas.*, FRCS  
Foster, J., MA *Cambs.*, MD *Cambs.* & *Medb.*,  
FRCS (Ophthalmol.) Sr. Clin. Lectr.

- Black, G. W., MB BS *Lond.*, FRCS (Ophthalmol.) Sr. Clin. Lectr.  
 Mills, C. P., MB BS *Lond.*, FRCS (Otol.) Clin. Lectr.  
 Boyle, T. McM., MB ChB, FRCS (Otol.) Sr. Clin. Lectr.  
 Penn, A. B., TD, ChM, FRCS (Orthop. S.) Sr. Clin. Lectr.  
 Clark, J. M. P., MBE, MB ChB, FRCS (Orthop. S.) Sr. Clin. Lectr.  
 Broomehead, R., MB ChB, FRCS (Orthop. S.) Hon. Lectr.  
 Henderson, W. R., OBE, MB ChB *Edin.*, FRCS (Neural S.) Sr. Clin. Lectr.  
 Latchmore, A. J. C., MBE, MS *Lond.*, FRCS Sr. Clin. Lectr.  
 Shuckamuth, H. S., TD, BSc MB ChB, FRCS Sr. Clin. Lectr.  
 Oldfield, M. W. C., MBE, MA DM MCh *Oxon.*, FRCS Sr. Clin. Lectr.  
 Lord, O. C., ChM DLO, FRCS (Otol.) Sr. Clin. Lectr.  
 Smiddy, F. G., ChM, FRCS Sr. Registrar, Tutor  
 Sell, F. F., MB ChB *Edin.*, MChOrth *Lon.*, FRCS Sr. Registrar, Tutor  
 Raper, F. P., MB ChB, FRCS (Urol.) Clin. Lectr.  
 Ellis, M., MA MB BChir *Cambs.*, FRCS Clin. Lectr.  
 Shaw, W. M. H., BSc MB ChB, FRCS (Plastic S.) Hon. Lectr.  
 Wooler, G. H., TD, MA MD BChir *Cambs.*, FRCS (Thiracic S.) Clin. Lectr.  
 Aylwin, J. A., MB ChB, FRCS (Thiracic S.) Clin. Lectr.  
 Wall, A. E., MSc MB ChB *Mass.*, FRCS (Neural S.) Clin. Lectr.  
 Atwell, J. D., MB ChB, FRCS Lectr.
- Codd, I., BSc PhD (Metall.) Lectr.  
 Beoley, P. R., BMed PhD *Sheff* (Metall.) Lectr.  
 Douthwaite, R. M., BSc (Metall.) Lectr.  
 Kelly, P. M., MA PhD *Cambs.* (Metall.) Lectr.  
 Worrall, W. E., MSc *Lond.*, PhD (Ceramics & Refractory Materials) Lectr.  
 Roberts, J. P., MA *Cambs.*, BSc PhD *Lond.* (Ceramics) Lectr.  
 McDougall, I. R., BSc *Lond.* (Chem. Engin.) Lectr.  
 Collings, C. N., MA *Cambs.* (Chem. Engin.) Lectr.  
 Hulett, J. R., BA DPhil *Oxon* (Chem. Engin.) Lectr.  
 McGrenvy, C., PhD *Yale*, BSc Lectr.  
 Lalle, B. A., BSc PhD Lectr.  
 Dent, F. J., OBE, PhD DSc Hon. Lectr.  
 Sarjant, Emer. Prof. R. J., OBE, DSc *Lond.* Hon. Lectr.  
 Blackburn, W. H., MSc PhD Principal Res. Chemist  
 Dixon-Lewis, G., MA DPhil *Oxon* Principal Res. Chemist  
 Kilham, J. K., BSc PhD Principal Res. Chemist  
 Barker, L., BSc PhD  
 Crotchpole, J. R., BSc  
 White, D., BSc *Lond.*, PhD

#### Colour Chemistry and Dyeing

- Rattee, I. D., BSc *Lond.* Prof.  
 Bird, C. L., MSc, FRIC (Dyeing) Sr. Lectr.  
 Peters, A. T., DSc PhD *Mass.* (Col. Chem.) Sr. Lectr.  
 Sutcliffe, F. K., MSc *Mass.*, PhD Res. Lectr.  
 Patterson, D., MSc PhD *Brit.* (Lakes & Pigments) Lectr.  
 Stevens, C. B., BSc PhD (Dyeing) Lectr.  
 Jones, F., BScTech *Mauch.*, PhD Lectr.

#### Engineering, Civil

- Evans, R. H., CBE, DSc *Mass.*, DSc *Ghent*, PhD Prof. Admin. Hd. of Engn. Depts.  
 Bennett, E. W., MSc *Brit.*, PhD Sr. Lectr.  
 Chronovits, A. W., DiplEng *PolishUniv* (London) Sr. Lectr.  
 Hunter Ross, W., MSc, FOS Hon. Lectr.  
 Mackey, R. D., BSc *Dunh.* Lectr.  
 Sutcliffe, P., BScTech *Mass.* Lectr.  
 Collins, W. G., BSc *Lond.* Lectr.  
 Fox, J. A., BSc *Brit.* Lectr.  
 Yettam, A. L., BA BAI *Dunh.* Lectr.  
 Houghton-Evans, W. Lectr.  
 Holmes, M., PhD *Brit.*, BSc Lectr.  
 O'Flaherty, C. A., BE N.U.I., MSc Lectr.  
 Rawcliffe, J., BScTech *Mass.* Lectr.  
 Sawko, F., MSc Lectr.

#### Engineering, Electrical

- Carter, G. W., MA *Cambs.* Prof.  
 Richardson, A., BSc *Dunh.* Sr. Lectr.  
 Walker, P. H., BSc(Eng) *Lond.*, PhD *Mass.* Sr. Lectr.

#### TECHNOLOGY

(see also Agriculture)

#### Applied Science, Houldsworth School of

- Roberts, A. L., BSc PhD, FRIC Livery Prof., Chairman of Sch.  
 Haselden, G. G., DSc PhD *Lond.* (Chem. Engin.) Prof.  
 Nusting, J., MA *Cambs.*, BSc PhD (Metall.) Prof.  
 Garndt, J. E., BSc PhD (Fuel Technol.) Sr. Lectr.  
 Shuttlesworth, R., PhD *Brit.*, BSc (Metall.) Sr. Lectr.  
 Feltham, P. A., DSc PhD *Lond.*, MSc (Metall.) Lectr.  
 Butcher, K. L., BSc *Lond.*, FRIC (Chem. Engin.) Brotherton Sr. Lectr.  
 Macrae, J. C., BSc *Glas.*, FRIC (Gas Chem.) Sr. Lectr.  
 Carruthers, T. G., BSc (Ceramics & Refractory Materials) Lectr.  
 Mitchell, S. C., BSc *Lond.* (Fuel Technol.) Lectr.  
 Pollard, A., BSc (Chem. Engin.) Lectr.  
 Cass, F. H., BSc (Chem. Engin.) Lectr.

Gule, A. E., BSc(Eng) PhD *Lead* Sr. Lectr.  
 Richardson, J. R., BSc PhD Lectr.  
 Lawrence, P. J., MSc *Assoc* Lectr.  
 Stephenson, J. M., BSc Lectr.  
 Bibby, G. L., BSc(Eng) *Lead* Lectr.  
 Heylen, A. E. D., BSc(Eng) PhD *Lead* Lectr.  
 Lectr.

**Engineering, Mechanical**

Cole, B. N., BSc *Lead*, PhD *Burs.* Prof.  
 (Fluid Mech.) Prof.  
 Leah, A. S., BSc PhD  
 (Appl. Thermodynam.) Reader  
 Shelton, R., BSc(Eng) *Lead* Sr. Lectr.  
 Appleyard, D., MSc Lectr.  
 Stansfield, H., MSc *Assoc.* Lectr.  
 Mobbs, F. R., DIC, MSc Lectr.  
 Palmer, W. B., MA *Assoc.*, PhD Lectr.  
 Dawson, D., BSc PhD Lectr.  
 Bradley, D., BSc PhD Lectr.  
 Tanner, L. H., BA *Assoc.* Lectr.  
 Longfield, M. D., BSc Lectr.  
 Muir, B. B., MSc *Assoc.* Lectr.  
 Parsons, B., BSc PhD Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

**Fuel Industries, see Appl. Sci.****Metallurgy, see Appl. Sci.****Mining**

Kang, H. J., BSc(Eng) PhD *Lead*. Prof.  
 Jowett, A., BSc PhD  
 (Min. Dressing & Coal Prep.) Lectr.  
 Dell, C. C., BSc(Eng) *Lead* Lectr.  
 Potts, W. L. J., BSc *Durk.* Lectr.  
 Brook, N., BSc(Eng) *Lead*, PhD  
 (Colliery Engin.) Lectr.  
 Myers, J. O., BSc PhD  
 (Mine Surv. & Appl. Geophys.) Lectr.  
 McFarlane, J., BSc *Assoc.*, BEng *Shiff.*  
 FGS (Mining & Mine Surv.) Lectr.  
 Peck, A., BSc  
 (Metal Mining & Mine Surv.) Lectr.  
 Grounds, A., BScTech *Assoc.*  
 (Min. Dressing & Coal Prep.) Hon. Lectr.  
 Needham, L. W., MSc *Burs.*  
 (Min. Dressing & Coal Prep.) Hon. Lectr.  
 Harris, C. C., BSc *Lead*, PhD  
 (Min. Dressing & Coal Prep.) Lectr.  
 Lectr.

**Procter Department of Food and Leather Science**

Ward, A. G., OBE, MA *Assoc.* Prof.  
 Stagnaby, G., MA PhD *Assoc.* Sr. Lectr.  
 Reed, R., MSc *Assoc.*, PhD Lectr.  
 Flint, F. Olga, BSc PhD Lectr.  
 Nürsteh, H. E., BSc PhD Lectr.

Pearson, C. H., BSc Lectr.  
 Scholtz, J., Lectr., Supervisor of Exper. Tannery  
 Kapel, M., DSc PhD *Burs.* Lectr.  
 Glew, G., MSc *Shiff* Lectr.

**Textile Industries**

Speckman, J. B., CBE, DSc *Assoc.*, FRIC,  
 Hon. FTI Prof., Hd. of Dept.  
 Grosberg, P., MSc(Eng) PhD *Lead*  
 (Text. Engin.) Res. Prof.  
 Whewell, C. S., BSc PhD, FRIC, FTI  
 (Text. Technol.) Prof.  
 Chamberlain, N. H., BSc PhD, FTI Reader  
 Woods, H. J., MA *Assoc.*, FIP  
 (Text. Phys.) Reader  
 Townsend, P. P., BSc PhD, FTI  
 (Yarn Manufacture) Sr. Lectr.  
 Snowden, D. C., MSc, FTI  
 (Weaving Mech.) Sr. Lectr.  
 Kishy, C. (Text. Des.) Sr. Lectr.  
 Peters, L., BSc *Lead*, MSc PhD Lectr.  
 Omura, W. J., BSc *Wales*, FTI  
 (Text. Testing) Lectr.  
 (Text. Engin.) Lectr.  
 (Text. Chem.) Lectr.  
 Bell, J. W., BSc PhD  
 (Text. Chem.) Lectr.  
 Truster, E. V., DIC, PhD BSc *Lead*.  
 (Text. Chem.) Lectr.  
 Speakman, P. T., BA DPhil *Assoc.*  
 (Text. Chem.) Lectr.  
 Munden, D. L., BSc  
 (Text. Engin.) Lectr.  
 Young, D., (Cloth Anal. & Cloth Struct.) Lectr.  
 Brook, G., BSc PhD Lectr.  
 Sikorski, J., Dupling *Wawons*, MSc PhD  
 (Text. Phys.) Lectr.  
 Smith, P. A., BSc PhD Lectr.  
 Hepworth, K., BSc *Lead*, PhD  
 (Text. Engin.) Lectr.  
 Johnson, D. J., MSc  
 (Text. Phys.) Lectr.  
 Kaid, F., MA *Assoc.*  
 Res. Chemist & Hon. Lectr.

**INSTITUTE OF EDUCATION**

Fletcher, B. A., BSc MA *Lead*  
 Prof. of Educn. & Dir.  
 Keen, A. M., MA *Glar* Dep. Dir.  
 Stevens, Frances M., BA *Lead* Sr. Lectr.  
 Smith, Miss M. Metcalfe, MA  
 (Primary E.) Lectr.  
 Jones, C. M., MA MSc Lectr.  
 Lovell, K., BSc MA PhD *Lead*. Lectr.  
 Owen, P. E., MA *Lead* Lectr.  
 Mattock, J. G., BSc *Shiff*. Lectr.  
 Glover, J., BA *Lead*. Temp. Lectr.  
 Richards, G. O., MA MusB *Assoc.*, FRCO Sec.  
 Bailey, Esmée P. M.  
 Warden of Children's Centre  
 Tucker, P. E., B Litt MA *Assoc.* Librarian

**ADULT EDUCATION AND EXTRA-MURAL STUDIES**

Raybould, S. G., BSc(Econ) PhD *Lead*.  
 Prof. of Adult Educn. & Hd. of Dept.

Gleave, J. T., MA MED *Durb*  
 Dir. of Extra-Mural Classes & Courses  
 Johnson, A., BSc(Econ) *Lead* Asst. Dir.  
 Thompson, E. P., BA *Canb* Sr Lectr.  
 de Russell, A. W., MA *Canb*  
 Lectr., Warden, Albert Mansbridge Coll  
 Dalby, G. R., MA  
 Lectr.; Warden, Bradford Centre  
 Saunders, J. W., BLitt MA *Oxon*  
 Lectr.; Warden, Middlesbrough Centre  
 Lectrs (Tutorial Classes): H. Broadbent, MA  
*Canb*; C. V. Bellamy, BSc, T. B. Caldwell,  
 MA *Oxon*; A. E. P. Duffy, BSc(Econ) PhD  
*Lead*; C. Johnson, BA, W. J. Pritchard,  
 MCom (also Tutor Librarian)  
 Lectrs (Univ. Extension Courses): F. A. Aberg,  
 BA *Wales*; A. E. Earle, BA *Canb*; E. G.

Haggel, MA; N. A. Jepson, BA *Mane*,  
 PhD; A. Kelly, LLB *Glas*, MA *Glas* &  
*Leeds*; P. Mayes, BA; G. McTaggart, W  
*Stun*, BA *Mane*; T. E. Stephenson, BA  
*Durb*; D. T. H. Wen, BA *Oxon*.  
 Lectrs (Tutorial Classes & Univ. Extension  
 Courses): E. D. Butterworth, MA *Canb*,  
 B. Jennings, BA *Lead*, MA  
 Lectr (Services Educn): T. G. Bishop, BA  
 BSc(Econ) *Lead*, PhD  
 Lectrs (Adult Educn): T. B. Caldwell, MA  
*Oxon*; E. G. Hauger, MA; A. W. de  
 Russell, MA *Canb*  
 Lectrs: J. Copley, MA, H. M. A. Kenna-  
 Soper, BSc *Lead*; P. L. Nokes, MA *Canb*;  
 Miss G. Rountree, MA *Oxon*  
 Sec: S. R. Vargo, MBE

### ADMINISTRATIVE AND OTHER STAFF

UNIV. ADMINISTRATION Sub-Dens, Fac. of  
 Med: T. A. Divine, MB ChB Asst  
 Registrars: J. McGregor, BA *Lea*,  
 MEd PhD; F. J. Orion, BSc *Leeds*, BLitt  
*Oxon* Sr Asst. Bursar R. Forbes, DFC,  
 BCom *Lead* Asst. Bursars: A. P. Atkinson,  
 BA *Oxon*; S. Boothman Resident Architect  
 & Planning Officer: G. Wilson, MSc. Dep.  
 Resident Architect: R. Pemberton, DSC  
 Surveyor of the Fabric: W. M. Higgins. Chief  
 Catering Officer: T. Greenhalgh. Photographer:  
 W. Blackledge

TUTOR OF WOMEN STUDENTS. Joyce Bleasman,  
 MBE, BA.

LIBRARY. Dep. Librarian: A. G. Mackenzie,  
 MA *Glas*

WARDENS OF HALLS OF RESIDENCE. (Men)—D.  
 H. Evans, Albert Medal, MA *Oxon*, BSc  
*Wales* (Devonshire Hall); R. E. Morgan, BA  
*Lead* (Lydden Hall); G. P. Ramm, MA *Leeds*,  
 R. D. Mackay, BSc *Durb*, B. A. Kilov, MA PhD  
*Canb*, J. L. Woodhead, MA *Canb*, P. J. Scho-  
 field, BA *Leeds*, MA LLB *Canb* (Bodington  
 Hall); D. C. Walker, BSc *St. And*, PhD (Sadler

Hall). (Women)—Leticia M. Pether (Osley  
 Hall), M. Brenda Carey, JP, LLB (Westwood  
 Hall); Irene Wraith, MA *Oxon*, (Lupton Hall),  
 Edith M. McAlpine, MA *Edin* (Teitly Hall),  
 Verena N. R. McCracken, MA *Birm* (Ellerslie  
 Hall), Lorna Galbraith (Croft Hall, for Maternity  
 Clerks).

WARDEN OF OVERSEAS STUDENTS. A. Laing,  
 MA *Edin* *Aberd*.

WARDEN OF LODGINGS. Carol P. Abell, BCom.  
 Mrs. Marjorie Sledge, BA.

STUDENT HEALTH SERVICES. Univ. Med. Officer:  
 R. J. Scoll, MA MB BChir *Canb* Asst. Med.  
 Officers: S. E. Finlay, MB *Syd*, MRCP; D.  
 McCracken, MB ChB BSc *Wales*, MRCP; Mrs.  
 Joan M. Tattersall, MB ChB

RADIATION PROTECTION OFFICER. E. Collinson,  
 MA PhD *Canb*

APPOINTMENTS BOARD. Sec. O. H. J. Dick,  
 BA *Lead* Asst. Secs. A. W. Town, MA *Canb*;  
 L. A. Grint, MA *Canb* & *Oxon*

### AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, Mirfield, Yorks.  
 (tel.: Mirfield 3362). (C. of E.) Affiliated 1904  
 Students are exempt from attendance at the univ.  
 upon 1st-yr. classes of BA course. Warden—Rev.  
 Father H. Bishop.

DIOSYAN TRAINING COLLEGE, ST. JOHN'S  
 COLLEGE, York (tel.: York 25596). (C. of E.)  
 A teachers' trg. coll., affiliated 1921. Attendance  
 upon certain courses of the coll. exempts from  
 inter (or introductory) courses in the univ. in 1st-  
 yr. BA and BSc. Principal—Rev. Canon P. J.  
 Lamb, MA *Oxon*.

LEEDS COLLEGE OF TECHNOLOGY, PRINTING  
 DEPARTMENT, Calverley St., Leeds, 1 (tel.: Leeds  
 36197) Affiliated 1922 with a view to recognition

of classes at the printing dept. of the coll. as part  
 of the BCom course of the univ. Principal of the  
 coll.—C. Chew, MScTech *Mane*, FRIC.

RAWDON COLLEGE, Rawdon, nr. Leeds (tel.:  
 Rawdon 56) (Baptist). Affiliated 1926. Attend-  
 ance upon certain courses of the coll. exempts from  
 1st-yr. classes of BA course. Principal—Rev.  
 D. S. Russell, MA *Glas* & *Oxon*, BD *Glas*,  
 BLitt *Oxon*.

TECHNICAL COLLEGE, Queen St. S., Hudders-  
 field (tel.: Huddersfield 5260). Affiliated 1906.  
 Attendance upon certain courses of the coll.  
 exempts from 1st-yr. classes of courses for BA,  
 BSc (incl. engin.), and MB ChB. Principal—  
 W. E. Scott, MBE, MSc PhD *Durb*, FRIC.

## GENERAL INFORMATION

The Leeds Sch. of Medicine, founded in 1831, and the Yorkshire Coll. of Science, founded in 1874, were united in 1884. The coll. formed part of the Victoria Univ., Manchester, from 1887 to 1904, when a univ. was established in the city of Leeds by royal charter.

The univ. has for many years maintained the balance of its facs, arts being at present the largest numerically. Through close connexions with and generously sustained help from industry, however, special strengths in pure and appl. scs. have been developed. In recent yrs., the use of special supplementary Treasury grants for the devel. of higher technol. educn. has made possible further major advances in these fields. Recent devels. and a high energy radiation lab. at Cookridge and a fully staffed and equipped electronic computing lab.

**CONSTITUTION.** The court is the governing body of the univ. and is empowered to regulate and determine all univ. matters in the ways required by the charter and statutes. It includes in its membership the council, reps. of the senate, teaching staff, convocation, professl. bodies, local authorities, other univs., colls. and schs. The council also has a widely representative membership and is the exec. body of the univ., exercising such powers as are granted to it by the court and by statute, and the instn. after a report by senate, of teaching officers, and management of the financial affairs of the univ. Subject to statutes and ordinances and to review by the court, the senate controls and generally regulates instructn. and educn. The chancellor is the hd and chief officer of the univ. and is pres. of court and council. In her absence, the pro-chancellor presides at meetings of these 2 bodies; the vice-chancellor is ex-officio chairman of senate. The chancellor, pro-chancellor and vice-chancellor are elected by the court on the nomination of council.

**INCOME (1960-61).** Total income, £2,837,198 (parliamentary grants, 74 per cent.; local authorities' grants, 2 per cent.; fees, 10 per cent.; interest on investments, 1 per cent.; other sources, 13 per cent.)

**FACULTIES AND DEANS.** *Arts*, Prof. G. T. Clapton (French), *econ. & soc. studies*, W. T. Newlyn (econ.), *law*, Prof. P. S. James; *med.*, A. B. Pann (surg.); *sci.*, Dr. D. Bann (phys. chem.), *technol.*, Dr. J. E. Garside (fuel technol.).

**LIBRARY.** Beetherton lib. (general lib. of the univ.) contains 522,389 books and pamphlets, incl. (a) Bioetherton collection, 45,011 books and pamphlets, 252 incunabula, 1152 lit. and hist. MSS., 4106 deeds, 34,522 letters, especially strong in Engl. lit. of 17th to 19th cents., Yorks. hist. and topog., early hist. of Labour party, and Remany lit.; (b) Anglo-French collection, 3000 vols., trans. of Engl. books into French and French books about Gt. Britain, printed before 1805;

(c) Icelandic & Scandinavian collection, 13,000 vols. & pamphlets, particularly rich in mod. Icelandic; (d) Mitzev collection of 612 vols. on occultism; (e) All Souls collection of 2394 vols. on early sci. and theol.; (f) lib. of Leeds Philos. & Lit. Soc., presented in 1956; (g) Chaston Chapman chem. lib., about 3000 vols. and many thousands of pamphlets; (h) Christian Chapman collection of early alchemical and sci. books, 1120 vols.; (i) Blanche Leigh collection of cookery books, largely of 17th & 18th cents., 1300 vols.; (j) Holden theol. lib., belonging to diocese of Ripon, 11,006 books & pamphlets; (k) Harold Whitaker collection of atlases and maps, about 450 vols.; (l) lib. of the Yorkshire Geol. Soc., presented in 1956. Apart from the Beetherton lib., there are the med. lib. (38,155 books & pamphlets), dent. lib. (2992 books & pamphlets), agric. lib. (43,441 books & pamphlets), textile lib. (1430 books & pamphlets), inst. of Educn. lib. (21,585 books & pamphlets), law lib. (10,078 books & pamphlets), also dept. libraries with total stock of 34,614 books & pamphlets.

**MUSEUMS.** Agric., bot., dyng, educn., forensic med., geol., mat. med., pathol., soc. studies (anthropol.), textiles, zool.

**LABORATORIES.** Agric. chem., anatomy, anat., biochem., biophys., bot., cancer, chem., chem. engin., chem. pathol., coal gas & fuel technol., colour chem. & dyng, dent., electronic computing, engin. (electr., civil, mech.), forensic med., geol., food & leather sci. (incl. Procter internat. res.), man-made fibres, maths, med., med. phys., metall., mining, obstet., pathol. & bacteriol., pharm. & pharmacol., phys., physiol., rheumatol., surg., textiles, zool.

**HOSPITALS** available for clinics: Infirmary (590 beds), Women's H. (103 beds), Maternity H. (112 beds), St. James H. (280 beds), Seacroft H. (30 beds).

**RESEARCH INSTITUTE OF AFRICAN GEOLOGY, LEEDS.** Founded in 1935 with donation of £100,000 by Anglo-American Corporation of South Africa. Dir.—Prof. W. Q. Kennedy, DSc Glas., FRS.

**OUTLYING DEPTS., ETC.** Univ. experimental sta. (pt. of dept. of exper. pathol. & cancer res.), Lumby Hall, S. Milford, Leeds; univ. farm (pt. of dept. of agric.), Headley Hall, nr. Tadcaster; marine biol. lab., Robin Hood's Bay, Yorks. Non-residential centres for dept. of adult educn. & extra-mural studies, Morrimington Villas, Bradford and 'Brarfield', Middlesbrough.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). Constituted in 1948, the inst. exists primarily to further and co-ordinate the trg. of teachers, and to recommend to the min. of educn. for qualified teacher status students, both grad. and non-grad., who have satisfactorily completed a course of teacher trg. The inst. provides facilities for the study of and res. in educn.



and acts as a centre of discussion and activity for teachers and others concerned with educn. (see also 'Diplomas', below). It comprises the following constituent member instns: the univ. dept. of educn.; Bingley Trg. Coll., Birston Hall; Carnegie Coll. of Phys. Educn., City of Leeds Trg. Coll., Huddersfield Trg. Coll.; [Jockey Coll. of Housecraft, James Graham Coll.]; Leeds Coll. of Art (Teacher Trg. Dept.); Margaret McMillan Memorial Trg. Coll., North Riding Trg. Coll., Ripon Trg. Coll., St. John's Coll., York; Yorkshire Trg. Coll. of Housecraft; and the following associated member instns: dept. of adult educn. & extra-mural studies; dept. of paediatrics & child health; dept. of phys. educn.; dept. of psychiatry; dept. of psychol.; music dept. of Huddersfield Coll. of Technol., Woolley Hall (near Wakefield, residential coll. for teachers' refresher courses).

**ADMISSION.** See Appendix III. Non-members of the univ. may be admitted to read for dipls. or other non-grad. qualifs. or to attend courses of tuition or pursue res. not leading to qualifs. of the univ.

**FIRST DEGREES.** BA in sp., gen. or combined studies—3 yrs.; hon. awarded to candidates attaining sufficiently high standard. Courses in the following sp. schs.: bibl. studies, classics, econ., econ. with stats., Engl. & hist. lit., French & Latin lang. & lit., French lang. & lit., geog., German lang. & lit., Greek lang. & lit., hist., Italian lang. & lit., Latin lang. & lit., Latin with Greek, maths., mod. langs. & lit., music, philos., philos. & 3 other subj., pol. studies, Russian lang. & lit., Semitic langs. & lit., sociol., social & philos., Spanish lang. & lit., textile design, textile management, theol. Hons. students of mod. langs. normally spend 1 term at an approved foreign univ. BCom—3 yrs.; hon. awarded to candidates attaining sufficiently high standard. The degree may be taken with acety. with law or with an appl. sci. as the principal subj., along with econ.; supplementary textile subjs. may be combined with a BCom course, LL.B.—not less than 3 yrs., ord. or hon. degree, hons. candidates take addnl. courses and exams. The dept. of law prepares students for the bar and solicitors' exams. as well as for the univ. degrees. BSc in pure sci. (single or combined schemes)—not less than 3 yrs.; hon. awarded to candidates attaining sufficiently high standard. Courses in the following subjs.: bot., chem., maths., phys., zool. (each 3 or 4 yrs.); bacteriol., biochem., geol., human & compar. anat., pharmacol., physiol., psychol. (each 4 yrs.); geog., pharmac. (each 3 yrs.). BSc hons. or ord. (in appl. sci.): ord. courses—3 yrs.; most hons. courses—4 yrs., but suitably qualified candidates may be permitted to complete the course in 3 yrs. Courses in the following schs.: agric., agric. bot. (hons. sch. only), agric. chem. (hons. sch. only), ceramics; chem., civil, elect., gas, mach. or textile engin.; chem. of leather manufacture, colour chem. & dyeing,

food sci., gen. fuel sci., metall., mining, textile chem., textile indust., textile phys. MB ChB—not less than 4 yrs. 3 mos.; BChD—not less than 4½ yrs.; hons. awarded to candidates attaining sufficiently high standard.

**HIGHER DEGREES.** BMus, MA, LL.M., MCom, MChD—grade of Leeds, 1 yr.; othes., a yrs. 1 BD—1 yr., MED, MSc—a yrs. (for hons. BSc, 1 yr.). Grads. of approved univs. may obtain the MA, PhD or MSc by a yrs. of res. Grads. of this univ. may make appln. for the LittD, DMus, DD, LL.D. or DSc in the 6th yr. after graduation; MD—3 yrs. after graduation, ChM—3 yrs. after graduation. Grads. of other univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as grads. from the date of original graduation.

**HONORARY DEGREES.** LittD, LL.D., DMus, DD, DSc, MA, MSc.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Hebrew, Spanish, 3 yrs. pt.-time, theol., 3 yrs.; dyeing, leather manufacture, mining engin., textile industries, 3 yrs., reducible under certain conditions to 2 (no students will be admitted to this course after session 1962-63); colour chem., dent. surg. (LDS), 4 yrs.; nursing, 4 yrs.; hosp. trg. and 3 terms' lectures. Dipls. of inst. of educn., open to trg. coll. lectrs., and serving teachers (grad. or non-grad.) with at least 5 yrs.' approved teaching experience: primary educn., sec. educn., educn. of backward children, phys. educn., religious educn., curricular studies, each 1 yr. full-time.

**POSTGRADUATE DIPLOMAS.** Agric. bacteriol., agric. bot., agric. chem., agric. econ., agric. zool., agric. (farm management), appl. geophys., ceramics, chem. engin., concrete technol., electronic computing, Engl. studies, Engl. as a 2nd lang., food sci., fuel sci., gas engin., hist. & philos. of sci., industrial management, leather manufacture, metall., mineral dressing & coal preparation, soc. studies, textile industries, 1 yr. (sometimes 62) after graduation, pub. health, 18 mos. pt.-time; psychol. med., 2 yrs. pt.-time.

**CERTIFICATES.** Grad. cert. in educn., 1 yr.; grad. cert. in educn. studies, 1 yr.; nurse teacher's, 1 yr. (for S.R.N.s with 3 yrs.' experience plus 1 yr. as ward sister); health visitors, 1 yr. (for S.R.N.s with C.M.B. pt. I); in Arabic, 2 yrs. pt.-time, in Russian, min. 2 yrs. pt.-time; in teaching of Hebrew and teaching of Arabic, 1 yr., for holders of dipl. in Hebrew or in Arabic or equivalent qualifs. Extension certs. in a wide range of subjs. min. 3 secnd. sessions.

**RESEARCH.** Facilities are available in all depts. for postgrad. study and res. Postgrad. students may be admitted to attend courses of tuition or to pursue res. not leading to a qualif. of the univ. Arrangements should be made with the hd. of the dept. concerned; preliminary enquiries about fees, etc., should be addressed to the registrar.

The Univ. publishes an annual pamphlet, *Publications & Tolls of Thesis*, and the inst. of educn. a bulletin of *Researcher & Student* twice yearly.

**SABBATICAL AND STUDY LEAVE.** Sabbatical leave may be given by the council to members of staff after 10 yrs' service. There is no specified min. previous service for applicants for study leave, and every reasonable effort is made to enable a member of staff to have study leave at times most profitable to himself.

**FEES.** Includes annual academic fees (covering tuition, exam and degree fees and, unless otherwise stated, membership of Univ. union). First degrees: BA, £67 (BA sp in textile design or textile management, £82); BCom with accty or law, £67 (with agric econ or a technol subj., £82); BBus, £45; LLB, £67; BSc, £82 (BSc sp in maths. or geog., £67); MB ChB, BChD, each £82. Postgrad degrees: BD (grads. of the Univ.), £45 (1-yr course), 2-yr course: £38 (1st yr.), £26 (2nd yr.), BD (others), £38; MA, MCom, LL.M (grads. of the Univ.) with supervision, £57 (1st yr.), £17 (2nd and subsequent yrs.), without supervision (single payment), £20; MA, MCom (others), £67; LL.M (others), £57 (1st yr.), £27 (2nd and subsequent yrs.); MEd (2-yr full-time course), £57 (grads. of the Univ.), £67 (others); MEd (3-yr part-time course), £57 (grads. of the Univ.), £40 (others); LittD, DD, DMus, LLLD, DSc, £50; MSc with lab. facilities, £82; MSc with supervision but without lab. facilities, £57 (1st yr.), £17 (2nd and subsequent yrs.); MSc without supervision (single payment), £20; ChM, MChD, MD, £50; PhD in arts, econ, soc studies, law, £67 (candidates studying at the Univ.), £40\* (candidates studying at other approved instns.; single payment); PhD in sci., £67 (candidates studying in the or geog. at the Univ.), £82 (candidates studying other subjs. at the Univ.), £40\* (candidates studying at other approved instns.; single payment); PhD in technol., £82 (candidates studying at the Univ.), £40\* (candidates studying at other approved instns.; single payment). Dips.: Hebrew, £45 (as 2-yr course, £20\* p a); theol., £50; Spanish, £12; educn. of backward children, primary educn., and sec educn., £67 (full-time), £30\* (pt-time), religious educn., £67 (full-time), £15\* (pt-time), phys. educn., £62; soc studies, £67; postgrad dipls. in Engl. studies or in Engl. as 2nd lang., £100, in hist. & philos. of sci., £67, in indust. management or electronic computing, £82; postgrad dipls. in technol., £82; non-grad. dipls. in technol., £82; pub health, £50\* (1st yr.), £30\* (2nd yr.); psychol. mod., £30\* (pt. 1), £50\* (pt. 2), dent. surg., £82, nursing, £35\* Certs.: grad. cert. in educn. or in educn. studies, £67, Russian, Arabic, teaching of Hebrew, separate lecture fees; nurse teacher's cert., £65\*, health visitor's trg. course, £65.

**ACADEMIC SESSION.** Oct to June or July. 3 terms of 10 wks. each.

\* This fee does not entitle the student to membership of Univ. union.

**DEPARTMENT OF ADULT EDUCATION AND EXTRA-MURAL STUDIES** (see also 'Teaching Staff', above). Dept. of extra-mural studies, instituted in 1946, presents title adopted 1952. Vacation courses, extension lecture courses and tutorial classes provided, the latter in co-operation with the WEA; also residential courses for hosp. administrators in Nuffield centre for hosp. and health services studies in the Albert McMbridge Coll. The dept. has assumed responsibility throughout the extra-mural sector for the admin. of civilian and in civilian for H.M. forces, and assists with courses at H.M. prison service staff coll.

**VACATION COURSES.** Advanced and specialized courses arranged by the dept. of adult educn. & extra-mural studies. Vac. courses for postgrad. students in assoc. with other depts. Details from sec., dept. of adult educn. The inst. of educn. arranges courses for teachers (details from sec. of inst.).

**PRINCIPAL 'OPEN' AWARDS** for first degree. No. of entrance schols. offered annually for award to successful applicants after open competition, monetary value of many of these awards may be supplemented by ministry of educn. Full particulars in prospectus, *Scholarships & Fellowships*, obtainable from registrar.

**POSTGRADUATE AWARDS** open to grads. of other univs. (see p. 102). *Gregory fellowships* in the creative arts. The object of the scheme is to bring younger creative artists into close touch with the Univ. community. During their tenure (normally 2 yrs) the fellows live in Leeds, are members of the fac. of arts in the Univ. and are wholly free to continue the practice of their arts. They are asked to make themselves freely accessible to students and staff and frequently give informal demonstrations and hold discussions.

**APPOINTMENTS BOARD.** (For staff, see 'Admin. and Other Staff', above). The bd. exists to give advice and information to students and grads. about careers and to help them to obtain posts. The bd. deals with all types of apps. for which grads. may be suitable. Grads. are welcome to use the bd's services after they have left the Univ.

**OVERSEAS STUDENTS' COMMITTEE.** A welfare of overseas students (see p. 1034) advises overseas students in the Univ. on their personal and academic problems, helps in bringing them into closer contact with people in the Univ. and its neighbourhood and arranges for them to see different aspects of the British way of life.

**OLD STUDENTS' ASSOCIATION.** Formed in 1923; has a branch in London. Hon. sec.: Mrs. Bertha Keightley and Dr. K. D. Parker.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above). Halls of residence for women (fees: £154 to £180 per session): Westwood Hall, Far Headingley, Leeds, 16 (tel.: warden 53548, students 57771); 85 students; Orley Hall, Far Headingley, Leeds, 16 (tel.:

warden 55181, students 51717), 131 students, Lupton Hall, Wood Lane, Huddersley, Leeds, 6 (tel. warden 57510, students 58321), 35 students, Ellerslie Hall, Lefton Place, Leeds, 2 (tel. warden 29422, students 25774), 59 students, Tetley Hall, Moor Rd., Leeds, 6 (tel. warden 52067, students 56744), 160 students. Halls of residence for men (fees £171 to £191 per session): Bodington Hall, Westwood Lane, Leeds, 16 (tel. 672521-2), 380 students, Devonshire Hall, Cumberland Rd., Leeds, 6 (tel. 52641), 180 students, Lydden Hall, Virginia Rd., Leeds, 2 (tel. warden 21276, students 21248), 63 students; Sadler Hall, Church Lane, Adel, Leeds, 16 (tel. warden 678074, students 673442), 33 students; Croft Hall, Hyde Terrace, Leeds, 2 (tel. warden 21153, students 23949) (hostel for maternity clinics).

**Lodgings.** a joint ctee. of senate and council supervises lodgings for men and women students. There is a full-time warden of lodgings (for men's lodgings) and a pt.-time warden of women students in lodgings (see 'Admin. and Other Staff', above).

**OFFICERS TRAINING CORPS (T.A.), AIR TRAINING SQUADRON AND WOMEN'S ROYAL ARMY CORPS (T.A. sub-unit).** Information as to conditions of membership, etc., of these units may be obtained from the commanding officers, while advice about service in the R.N. may be obtained from the naval liaison officer, Lt-Commander C. W. Buckley.

**DEPARTMENT OF STUDENT HEALTH.** Instituted 1940. Provides treatment and advisory services for students, incl. periodical med. examn., annual X-ray examn., preventive inoculations and vaccinations. A sick-bay is provided, under the care of a resident nursing sister.

**UNIVERSITY UNION.** All students of the univ. are members of the univ. union and have full use of all the union facilities, which incl. a theatre,

cafeteria, coffee lounge, Mount Jones lounge used by both staff and students, library, television room, billiards room and numerous common rooms and canteen rooms. The official journal of the union is *The Gryphon*. The *Univ. News* is published weekly in term. There are over 90 socs and 36 athletic clubs to provide a large range of indoor and outdoor interests and activities for students. The union, besides providing a club for students, fulfils the function, through its pres. and ctee., of a student representative council. The univ. athletic grounds are at Westwood, Leeds, 16, and the univ. boat-house is at Swillington, near Leeds. The permanent staff comprises a clerk to the union and 3 clerical apts.

**PUBLICATIONS.** *Calendar* (Oct.), 15s., plus postage, *Register of Graduates*, 1904 to Dec. (1956) 12s. 6d. (imp), 15s. (cloth), plus postage, *Gazette*, 6d. per issue, post free, *Int. & Dept. Prospectuses*, *Publishers & Titles of Theses*, annually 1927-38 and 1950 to the present, 2s. 6d. each, plus postage, inaugural and Selig Brodetsky lectures, 2s. 6d., plus postage, *Montague Burton lectures*, 6d., plus postage, *Univ. of Leeds Review*, 4s. p.a. or 2s. 6d. per issue, *The Private Domes in the History of the Univ. of Leeds*, E. J. Brown, 5s. post free; *The Univ. of Leeds: the First Half-Century*, Prof. A. N. Shimmin (1954), 21s.; *Univ. of Leeds Med. Journal*, 3 issues, p.a., 15s.; *Researches and Studies (Inst. of Educn.)*, 2 issues p.a., 9s. 6d. or 5s. per issue post free; *Journal of the Huddersfield Soc.*, annually, 2s. 6d. post free; *Leeds Univ. Poetry*, annually, 2s. 6d., plus postage, *Poetry and Audience*, wily, 1d., *Journal of the Leeds Univ. Music Soc.*, annually, 3s., post free; *Engineering Soc. Journal*, annually, 2s., post free. Student publications: *Univ. Union Handbook*, *The Gryphon* (magazine), 3 issues p.a., 3s., *Geste*, 8 issues p.a., 4s.; *Scope*, fortnightly, 6d., *Univ. News* (newspaper, weekly in term).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Worshipful Co. of Clothworkers, £10,500 towards maintenance of clothworkers' depts.; Internat. Wool Secretariat, £12,680 for res. in clothworkers' depts., dept. of health educn. and welfare, U.S.A., £18,400 for res. in depts. of biomolecular structure and physiol.; Brown Foundation, £10,000 for fellow in American studies; Foundation for Management Educn., £84,000 for indust. management studies, Godfrey Mitchell Charitable Trust, £10,000 for bursaries in concrete technol.; Multiple Sclerosis Soc., £17,000 for res. in dept. of pathol.; A. C. C. (Bortherton) Ltd., £40,000 for res. fellows and scholars in chem. and chem. engin.; May & Baker Ltd., £12,000 for res. in dept. of med.; Nuffield Provincial Hosp. Trust, £60,000 towards cost of residential centre for extra-mural studies, Anglo-American Corp. of S. Africa Ltd., £105,000 for res. inst. of African

geol., the late H. O. S. Wright bequest, £26,400; the late Miss A. R. Baker bequest, £10,000.

**MAJOR BUILDING DEVELOPMENTS.** Bldg. completed - stage II of arts bldg., stage I of Bodington hall, stage II of Tetley hall, mech. engin. bldg.

**RETIREMENTS.** Prof. G. Wilson Knight (Engl. lit.); A. L. Knighton (Surveyor of the Fabrics); W. A. Waghman (org. chem.)

**REIGNATIONS.** Dr. M. Atkinson (med.); Dr. M. Bouley (German); Dr. G. S. Brayshaw (electr. engin.); Dr. R. N. C. Coe (French); Mrs. Valentina S. Coe (Russian); Dr. I. C. Coleridge (physiol.); A. J. Creedy (Engl. lit.); Dr. D. W. J. Cruickshank (inorg. & struct. chem.); Mrs. Margaree Cruickshank (educn.); Dr. G. R. Higginson (mech. engin.); M. R. Hollings (dent.

surg.), Dr D Kirby (maths.), Mrs Norma Jacobs (med. phys.), Dr J. W. Jull (cancer res.), Dr E. Leghifoot (civil engin.), J. McLeish (adult educn & extra-mural studies), Dr A. R. Mathiasen (textile industries), J. R. Morrisby (psychol.), Dr J. A. Rex (soc studies), Dr B. F. Salvage (electr engin.), R. Shaw (adult educn. & extra-mural studies), Dr S. Trippett (org. chem.), Dr B. R. Wilson (soc studies), Dr J. H. Wolstenclough (physiol.)

**DEATHS.** Emer Prof D Chamberlain (former prof. of clin surg.)

**HONORARY DEGREES.** *LLD*—A. R. Baines, formerly chairman, Wool Textile Res. Council, W. E. Jones, chairman, S. Regional Bd for Industry, Sir Jeremy Rayman, dep. chairman, Lloyds Bank Ltd., Sir James Robertson, formerly govt. gen. of Nigeria. *LittD*—Barbara Hepworth, sculptor, the Rev. N. H. Smith, formerly principal of Wesley Coll., Leeds. *DSc*—Prof A. Butenandt, dir. Max Planck inst. for biochem., Munich, Sir Ronald Fryder, formerly Arthur Balfour prof. of genetics, Camb., Sir John Hammond, formerly reader in animal physiol., Camb., Prof C. H. G. Macafee, prof. of midwifery and gynaecol., Belf. *MA*—Martha Steinitz, formerly tutor in German, Swarthmore adult educn. centre, Leeds.

#### Statistics

##### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3920	213
Women	1255	42
Total	5175	255

Distribution by Faculties. *Arts*, 1618, *econ & soc studies*, 347, *law*, 177, *med*, 633; *sci*, 1006; *technol*, 1649. Total, 5430

Included in the figures above are:—

Postgraduate students, 810

New admissions, 2021

Students from other countries, 619 (Continues from which largest numbers came: India, 130; Egypt, 40; Nigeria, 36; Turkey, 28; Persia, 25; Pakistan, 24)

**DEGREES AWARDED (1960-61)** *Arts*: BA, 35; BA hon, 327; MA, 28, MEd, 2, DD, 1. *Econ & soc studies*: BA, 5, BCom, 7, BA hon, 44, BCom hon, 15, MA, 1. *Law*: LLB, 6, LLB hon, 11, LL.M., 2. *Med*: MB ChB, 51, BChD, 20, MB ChB hon, 1; MD, 3, ChM, 1, MSc, 1. *Sci*: BSc, 21, BSc hon, 200, MSc, 6, DSc, 2. *Technol*: BSc, 95, BSc hon, 172; MSc, 12. PhD (all fees), 70. Total number of first degrees awarded, 1040

**DIPLOMAS AWARDED (1960-61)** Engl. studies, 17; primary educn., 11, soc educn., 8, educn. of backward children, 7, phys. educn., 9; religious educn., 7, soc studies, 11, electronic computing, 6, technol., 68; dent. surg., 29

**CERTIFICATES AWARDED (1960-61)** Educn. (grad. cert.), 127

# UNIVERSITY OF LEICESTER\*

Founded 1957, previously established as a University College, 1918

Postal Address: University Road, Leicester, England

Cable and Telegrams: University Leicester

Telephone: Leicester 24211

VISITOR—H M THE QUEEN

CHANCELLOR—The Rt Hon LORD ADRIAN, OM, Hon. DSc *Paris, Oxon, Harv., Lyons, Lond, Manc, Durh, Johns H, Belg., Wales, N Y., Sheff, Hull, Brazil, Bologna, Freib, Paris & Leac*, Hon LLD *McG, St And, Glas, Law, Edin & Dal*, Hon. MD *Brussels, Louvain & Montr*, MA MD *Camb., FRSE, FRCP*

PRO-CHANCELLOR—C. R. KEENE, CBE, JP

VICE-CHANCELLOR—T. A. FRANK NOLAN, MBE, MA *Aberd*

PRO-VICE-CHANCELLOR—Professor J. SIMMONS, MA, FRHistS, FRSL

REGISTRAR—H B. MARTIN, BCom *Lond.*, FCIS

LIBRARIAN—D. G. F. WALKER, MA LLB *Glas.*

## TEACHING STAFF

(† = Part-Time)

Archaeology, British			
Thomas, S E, MA <i>Camb.</i>	Lectr	Davidson, I. M. T., BSc PhD <i>St. And.</i>	Lectr.
Wheeler, J. S., BSc <i>Lond.</i> , FSA	Lectr.	Guthrie, R. D., BSc PhD <i>Lond</i>	Lectr
Simpson, D. D. A., MA <i>Edin.</i>	Asst. Lectr.	Morison, K. W., BSc PhD <i>Rdg.</i>	Lectr
		Blandsmer, M. J., BSc PhD <i>St. An.</i>	Asst Lectr
		Davis, K. M. C., BSc PhD <i>Nott.</i>	Asst Lectr.
		Kennett, R. D. W., BSc <i>Lond.</i>	Asst. Lectr
		Brivett, J. A., BSc <i>St. An.</i>	Experimental Officer
Biochemistry		Economics	
Kernberg, H. L., BSc PhD <i>Sheff.</i> , MA	Prof.	Pool, A. G., BSc(Econ) PhD <i>Lond</i>	Prof
DSc <i>Oxon.</i>		Birmingham, W. B., BSc(Econ) <i>Lond.</i>	Sr Lectr.
Redfern, E. R., BSc PhD <i>Lea.</i>	Sr Lectr	Conway, Freda, BSc <i>Lond</i> , MA(Coan)	
Jones, K. M., MA DPhil <i>Oxon</i>	Lectr	<i>Manc</i>	Lectr.
Morris, J. G., BSc <i>Leeds</i> , DPhil <i>Oxon</i>	Lectr	Graves, P. S., BSc(Econ) <i>Lond</i> , PhD <i>Camb.</i>	Lectr
Ashworth, J. M., BA <i>Oxon</i>	Res Demr	Ford, A. G., MA DPhil <i>Oxon</i>	Lectr.
Botany		Rees, H., MA <i>Wales</i>	Lectr.
Tunn, T. G., MA <i>Camb.</i> , FLS	Prof.	Donaldson, P., BA <i>Oxon</i>	Lectr.
Conolly, Ann P., MA <i>Camb.</i>	Lectr	Nath, S. K., BA <i>Dalh.</i> , BSc(Econ) <i>Lond.</i>	Asst Lectr
Wangemann, Elisabeth, MSc PhD <i>Manc.</i>	Lectr.	Pullen, M. J., BA <i>Keble</i> , MA(Econ) <i>Manc.</i>	Asst Lectr
Morris, D. M., BSc PhD <i>Durh</i>	Lectr.	Neilson, J. W. C., BA	Tutorial Asst
Hollday, G., BA PhD <i>Camb</i>	Lectr		
Tum, Mrs Winifred, BSc PhD <i>Rdg</i>	Sp. Lectr.		
Chemistry		Education, see School of Education	
Hunter, L., DSc PhD <i>Lond.</i> , FRIC	Prof., Hd. of Dept.	Engineering	
Symons, M. C. R., DSc PhD <i>Lond.</i>	FRIC (Phys. C) Prof	Parkes, E. W., MA PhD <i>Camb.</i>	Prof.
Trippett, S., MA PhD <i>Camb</i>	Sr Lectr.	Cutteridge, O. P. D., MSc(Eng) PhD <i>Lond.</i>	
Harvey, S. H., BSc PhD <i>Lond.</i>	Lectr.	Maxwell, R. W., BSc <i>Lond</i> , PhD <i>Manc.</i>	Sr Lectr
Shaw, Florence R., BSc PhD <i>Leeds</i> , FRIC	Lectr		Sr Lectr.
Boet, R. W., BSc <i>Belg.</i>	Lectr.		

\* Member of the Association of Universities of the British Commonwealth

Pickering, E. N., MScTech PhD *Manc*  
 Cockrell, D. J., DIC, BSc *Leeds*  
 Freer, H., MA *Cambs*  
 Porter Goff, R. F. D., BA *Cambs*  
 Thwaites, J. J., BA *Oxon*  
 Nightingale, J. M., BScTech PhD *Manc*  
 Tate, A. P. K., BSc(Eng) *Leeds*, PhD *Stow*

Hughes, M. T. G., BSc PhD *Nott*  
 Tery, A. C., BSc *Nott*  
 Harris, J., BSc PhD *Wales*  
 Lloyd, R. G., BSc PhD *Wales*

## English

Humphreys, A. R., MA *Cambs*, AM *Harv.* Prof.  
 Collins, P. A. W., MA *Cambs* Sr. Lectr.  
 Jones, M. Monica B., MA *Oxon* Lectr.  
 Luttrell, C. A., BA PhD *Leeds* Lectr.  
 Crank, T. W., MA PhD *Cambs* Lectr.  
 Fraser, G. S., MA *St. And.* Lectr.  
 Diaper, R. P., BA PhD *Nott* Lectr.  
 Macrae-Gibson, O. D., MA *Oxon* Lectr.  
 Richardson, Frances E., MA *Oxon* & *Dub.* Lectr.  
 BLitt *Oxon*  
 Nandy, D., BA *Leeds* Asst. Lectr.  
 Ruddick, W., BA Tutorial Asst.

## French

Sykes, L. C., MA *Sheff.*, DPhil *Oxon*. Prof.  
 Hemmings, F. W. J., MA DPhil *Oxon*. Reader  
 Hampton, J., BA *Sheff.*, DU *Paris* Lectr.  
 Ince, W. N., MA *Cambs*, DU *Paris* Lectr.  
 Matthews, J. H., BA *Wales*, DU *Montpellier* Lectr.  
 Varty, E. K. C., BA PhD *Nott* Lectr.  
 Rawson, Mrs. Simone M., Lic. L. *Bordeaux* Lectr.  
 Hay, P. C., MA *Wales* Asst. Lectr.  
 Toplis, Patricia, BA *Leeds* Tutorial Asst.  
 2 Lectures/Lectures

## Geography

Pye, N., BA *Manc*. Prof.  
 Kirk, W., BA *Leeds* Sr. Lectr.  
 Millward, R., MA *Cambs* Lectr.  
 Robinson, A. H. W., MSc PhD *Leeds* Lectr.  
 Warren, K., BA PhD *Cambs* Lectr.  
 Wallwork, K., MA *Manc* Lectr.  
 Oldfield, F., BA *Leeds*, PhD Lectr.  
 Rice, R. J., MA *Leeds* Lectr.  
 Crookley, J. C., MA *Sheff.* Lectr.  
 Goodridge, J. C., BA *Leeds* Tutorial Asst.

## Geology

Sylvester-Birdley, P. C., BSc *Rdg.*, FGS Prof.  
 Whitaker, J. H. McD., MA *Cambs*, BSc *Leeds*, FGS Lectr.  
 Ford, T. D., BSc PhD *Sheff.*, FGS Lectr.  
 Evans, A. M., BSc *Leeds* Lectr.  
 Le Bas, M. J., BSc *Leeds*, PhD *Cambs* Lectr.

## German

Powell, P. H., MA DLitt *Wales*, DPhil *Rustsch* Prof.

Wilson, H. B., MA *Cambs* Lectr.  
 Mayes, R., DPhil *Graefen* Hon. Lectr.  
 Bridgewater, W. P., MA BLitt *Oxon* Lectr.  
 Ellis, J. M., BA *Leeds* Asst. Lectr.  
 1 Lectr.

## Government, see Pol

## Greek, see Latin and Greek

## History

Simmons, J., MA *Oxon*, FRHistS, FRSL Prof.  
 Evans, Mrs. Anne K. R., BA PhD *Leeds*, FRHistS, FSA Sr. Lectr.  
 Evans, R. H., MA *Oxon* Lectr.  
 Searle, N., MA *Oxon* Lectr.  
 Martin, C. H., MA DPhil *Oxon*, FRHistS Lectr.  
 Newman, A. N., MA *Glas. & Oxon*, DPhil *Oxon* Lectr.  
 Cohn, H. J., BA *Oxon* Asst. Lectr.  
 Hulton, Owen H., BA *Leeds* Asst. Lectr.

## History, Economic

Dyos, H. J., BSc(Econ) PhD *Leeds* Sr. Lectr.  
 Outhwaite, R. B., BA *Nott* Lectr.  
 Aldcroft, D. H., BA *Manc* Asst. Lectr.

## History, English Local

Fulford, H. P. R., MA DLitt *Oxon*, FSA, FRHistS Reader, Hd. of Dept.  
 Thrush, Mrs. I. Joan, BA PhD *Leeds* (Agrarian Hist.) Sr. Res. Fellow  
 Everett, A. M., MA *St. And.*, PhD *Leeds* (Urban Hist.) Res. Fellow  
 Midgley, Laura M., MA *Manc* (Agrarian Hist.) Res. Asst.

## History of Science

McGuire, J. E., BA *W.Ont.* Lectr.  
 Brock, W. H., BSc *Leeds*, MSc Asst. Lectr.

## Latin and Greek

Wasserstein, A., BA PhD *Leeds* Prof.  
 Rushworth, E., MA *Cambs* Sr. Lectr.  
 Spire, Sheila G., MA *Cambs* Lectr.  
 Cloud, J. D., MA *Oxon*, BLitt *Glas.* Lectr.  
 Braun, T. F. R. G., BA *Oxon* Asst. Lectr.

## Mathematics

Goodstein, R. L., BA MSc *Cambs*, DLitt PhD *Leeds* Prof.  
 Davies, R. O., MA PhD *Cambs* Reader  
 Whitfield, E. V., MA *Cambs*, BSc *Manc* Sr. Lectr.  
 Premrose, E. J. F., MA *Oxon*, PhD *Leeds* Sr. Lectr.  
 Downton, H. F., DIC, BSc *Leeds* Sr. Lectr.  
 Bowen, N. A., MSc *Wales*, BSc *Leeds*, PhD *Abert.* Sr. Lectr.  
 Cole, A. J., MSc PhD *Leeds* Sr. Lectr.  
 Buckley, R., MSc *Leeds* Lectr.

Knight, A. J., MSc *Land*, PhD *Comb*  
 Weismann, A., BSc PhD *Land*  
 Rahman, N. A., MA *Alld.*, MSc *Calc.*,  
 PhD *Comb*  
 Tivdelt, A., MSc *Land*  
 White, D. J., BSc PhD *Land*  
 Wheeler, R. F., BA *Comb*  
 Zarrop, M. B., MA *Land*  
 Ault, J. C., MSc *Mine*  
 Fisher, B., BA *Quas*  
 Thompson, J. R., BA *Comb*

Lectr. Bevington, D. Mary, BA *Notr*  
 Lectr. Young, Priscilla H. F., MA *Edu*  
 Williams, Mrs. Sheila, BA *Land*  
 Lectr. Duncon, P., BA *Hall*  
 Lectr. Brown, R. K., BA *Comb*  
 Lectr. Holloway, S. W. F., BA *Land*  
 Lectr. Geddens, A., BA *Hall*  
 Lectr. Hopkins, M. K., BA *Comb*  
 Lectr. Albro, M. C., BA *Comb*  
 Lectr. Dunning, E. G., BSc(Econ) *Land*, MA

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

### Musio

Mulgan, D. M., BA BMus *Oxon.*

Dir.

### Philosophy

Nowell-Smith, P. H., MA *Oxon.*, AM *Harc* Prof.  
 Macgowan, R. S., MA *Nes Br* Lectr.  
 Ramsey, Gillian, BA *Oxon.* Asst. Lectr.  
 Moss, J. M. B., MA *Comb* Asst. Lectr.

### Physics

Stewardson, E. A., MSc *Law*, PhD *Comb* Prof.  
 Howwood, C. A., MSc *Birm.*, PIP Sr. Lectr.  
 Wilson, J. E., MA *Oxon* Lectr.  
 Matheson, E., BSc PhD *Land* Lectr.  
 Speyer, W. E., BSc PhD *Land*, FIP Lectr.  
 Russell, P. C., MSc PhD *Land* Lectr.  
 Banyard, K. E., BSc PhD *Sheff.* Lectr.  
 Brightman, Violet A., BSc PhD *Edu.* Lectr.  
 Founds, K. A., BSc PhD *Land* Lectr.  
 Jones, T. B., BSc PhD *Wales* Lectr.  
 Mort, J., BSc PhD Res. Demar.  
 Underwood, J. H., BSc Res. Demar.

### Politics

Hughes, C. J., BA BPhil *Oxon* Prof.  
 Hookham, M., BSc(Econ) *Land* Lectr.  
 Lyon, P. H., BSc(Econ) PhD *Land* Lectr.  
 Day, J., BA *Comb* Lectr.  
 Hanak, H., MA *Dub & Land* Lectr.  
 Chapman, R. A., MA *Car*, BA Asst. Lectr.

### Psychology

Lee, S. G. M., MA *Natal*, PhD *Land* Prof.  
 Sluckin, W., BSc(Eng) BSc PhD *Land* Lectr.  
 Wright, D. S., BA *Oxon*, MA *Birm* Lectr.  
 Taylor, Ann, BA *Land* Asst. Lectr.

### Sociology (including Social Studies)

Neustadt, L., DrSc(Econ) *Lidge*, PhD *Land* Prof.  
 Jones, H., BSc(Econ) PhD *Land* Sr. Lectr.  
 Warham, Joyce, BA *Law* Lectr.  
 Cohen, P. S., BCom *Rand*, BSc(Econ) PhD *Land* Lectr.

### Zoology

Moon, H. P., MA *Comb*, FLS Prof.  
 Moody, Joyce, BSc *Sheff* Lectr.  
 Guthrie, D. M., BSc PhD *Land* Lectr.  
 Sage, M., BSc PhD *Notr* Asst. Lectr.  
 Cook, L. M., BSc *Land*, DPhil *Oxon* Asst. Lectr.

### SCHOOL OF EDUCATION

Tibbles, J. W., MA MEd *Leeds* Prof., Dir.  
 Bantock, G. H., MA *Comb* Reader  
 Jaselin, A. G., MA BSc *Land*, PhD *Leeds*  
 Pedley, R., MA *PhD Durh* Sr. Lectr.  
 Wight, R. M., BL *Ald.* Sr. Lectr.  
 Roberts, I. E., BSc *Wales* Sr. Lectr.  
 Swanson, B. Mary, MA *Land*,  
 DPhil *Oxon* Lectr.  
 Collins, Mrs. Mildred, BSc *Land & Birm.*,  
 PhD *Land* Lectr.  
 Simon, B., MA *Comb* Lectr.  
 Richardson, G., MA *Sheff* Lectr.  
 Welford, M. F., BA *Land* Lectr.  
 Kerr, J. F., BSc *Law*, PhD *Belf* Lectr.  
 Taylor, P. H., BA MEd *Manc.* Lectr.  
 Wheeler, D. H., BSc *Land* Lectr.  
 Austin, A., BA BSc(Econ) *Land*,  
 LEd. *Toulouse* Lectr.  
 Garvie, Margaret E., BSc *Land* Lectr.  
 Hopkinson, Mrs. Iris W., BA *Land* †Lectr.  
 Higson, Constance W. J., MA  
 PhD *Comb*, FLA Librarian

### EXTRA-MURAL ADULT EDUCATION

Allaway, A. J., MA *Sheff* Prof.  
 Halloran, J. D., BSc(Econ) *Land* Staff Tutor  
 Rice, D. J., MA *Ald.*  
 Staff Tutor & Warden of Vaughan  
 College  
 Pashley, B. W., BA *Leeds* Staff Tutor

## ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S OFFICE Sr. Asst. Registrar: G. B.  
 Pyrah, BA PhD *Leeds* Asst. Registrar: E. C.  
 Burford, BA *Land* Sr. Asst. A. R. Roper;

P. Edwards, BA *Land* Accountant: E. C.  
 Goldspink, FCA. Asst. Accountants: F. C.  
 Pogo; F. G. Vanderweele. Sr. Asst.: C. B.

Arnold. Bursar: F. G. Sutton, FCIS. Asst. Bursar: R. H. Fleet, BA. Keels: Appointments Officer: K. E. Reeve, BA. Ovals: Radcliffe Protection Officer: J. T. Griffiths, BSc. Waler, Vice-Chancellor's Sec.: Olive Wood, BA. Lond. Registrar's Sec.: Marjorie B. Wood, BA. Nott.

LIBRARY. Dep. Librarian: J. A. Barker, MA. Edm. Asst. Librarians: M. Ivory, R. Duchan, MA. Edm., FLA., Maureen Bateman, MA. Camb., FLA., L. M. Beldowski, BA. Lond., Sheila

Griffiths, BA. Manc., D. E. Griffiths, BA. Lond. Asst. Margaret J. Wilson, BA. Lond.

WARDENS OF HALLS OF RESIDENCE: Dorothy M. Forster, MA. Oves (College Hall); Constance M. Griesman, BA. Camb. (Clare Hall); R. L. Bishop (Beaumont Hall); I. E. Roberts, BSc. Waler (Gilbert Murray Hall); P. C. Russell, MSc. Phil. Lond. (Salisbury Hall); J. Crumpton, BA. Manc., MA. Lond. Oves (Dugby Hall).

DEPT. OF ADULT EDUCATION. Sr. Asst.: H. N. Jeffery (Bursar, Vaughan Coll.).

## GENERAL INFORMATION

The Univ. Coll. of Leicester was founded in 1918. The original site and bldgs., which date from 1837, were given by the late T. Fielding Johnson in 1919, and a substantial endowment fund was subscribed by leading citizens. In 1945 the coll. was recognized by the Univ. Grants Cttee. and placed on the list of univ. instns. receiving grants from the Treasury; in 1950 it received a royal charter of incorporation as a univ. coll. The coll. was incorporated in the Univ. of Leicester, constituted by royal charter, in 1957.

CONSTITUTION. Under the charter the governing body is the univ. court. The council is responsible to the court for the management of the whole of the univ.'s affairs. The senate, an academic body consisting entirely of members of staff, controls, under the council, the academic affairs of the univ. The bds. of the facs are responsible to senate for the work of the respective facs. Convocation consists of all grads. of the univ., together with the officers and academic staff. It appoints reps. on court, and may communicate with court, council or senate on any matter affecting the univ.

INCOME (1961-62) £576,000 (principal sources: fees, 13 per cent., govt. grants, 78 per cent.).

FACULTIES AND DEANS (1962-63). Arts, Prof. P. H. Powell (German), sci., Prof. T. G. Tutin (bot.), soc. scs., Prof. I. Neustadt (sociol.).

UNIVERSITY RESIDENCE. The main univ. bldgs. are in University Rd., about 1 mi. from the city centre. The original bldg. has been considerably altered and extended; new bldgs. were opened for loc. in 1951, refectory and students' union in 1958, chem. in 1960, phys. in 1961, engin. and adult educ. in 1962. New bldgs. for maths, geog. and geol. are under constr. Vaughan Coll. (High St.) is the main centre in Leicester for the adult educ. dept. Halls of residence are situated at Oadby (for men) and at Knighton (for women); a new hall is under constr. The bot. gdns. are at Beaumont Hall, Stoughton Drive South.

LIBRARY. 142,000 vols., sp. collections: the Robyns collection of bibles, the works of Bunyan

and early printed books; the Hutton topographical library; transport hist. A large extension to the library was completed in 1954.

SCHOOL OF EDUCATION. The offices are at 152 Upper New Walk, Leicester (tel. Leicester 24710), and there is a centre for teachers' services at 328 London Rd., Leicester (tel. Leicester 78133), where there are lecture rooms, reading rooms, library (21,000 vols.) and an information service for teachers. The school is an area training organization for the trg. of teachers, for which purpose it includes Leicester Coll. of Art; City of Leicester Trg. Coll.; Leicester Domestic Science Trg. Coll.

ADMISSION. See Appendix III.

FIRST DEGREES (\* = may be awarded with hon. or as pass degree). BA, BSc. BA general\* — 3 yrs. (1 subj. for 3 yrs., 2 for 2 yrs. and 1 for 1 yr.) or 2 subjs. for 3 yrs., 1 for 2 yrs. and 2 for 1 yr. BA special\* — not less than 3 yrs. during which student reads as main subj. one of: classics, Latin, Greek, Engl., French, German, hist., geog., maths., psychol., together with (except for classics) 1 or 2 supplementary subjs. BSc. general\* — 3 yrs. (1 subj. for 3 yrs., 2 for 2 yrs. and 1 for 1 yr.; or 2 subjs. for 3 yrs., 1 for 2 yrs. and 2 for 1 yr.; or 2 subjs. for 3 yrs. and 2 for 1 yr.) BSc. special\* — not less than 3 yrs. during which student reads as main subj. one of: chem., phys., bot., zool., maths., geog., geol., biochem., engin., together with 1 or 2 supplementary subjs. BA in soc. scs.\* — not less than 3 yrs. (after 1 yr. common to all courses for three degree student reads as main subj. one of: econ., sociol., pol. or geog.).

Final exam. in main subj. of all special degrees (except hist., bot., zool.) is in two pts., pt. 1 being taken at end of 2nd yr.

HIGHER DEGREES. MA, MSc, MEd, not less than 1 yr. full-time or 2 yrs. pt.-time. PhD, not less than 2 yrs. full-time or 3 yrs. pt.-time. DLitt, DSc, on public contributions to knowledge.

HONORARY DEGREES. DLitt, DSc, LL.D.

The univ. does not award EXTERNAL DEGREES.



**DIPLOMAS AND CERTIFICATES** Grad. cert. in educn (postgrad 1-yr. course); dipl. in soc. psychol. of educn (1-yr. course for experienced teachers); cert. in appl soc studies (1 yr post-cred. mental course)

**RES. RES.** Facilities for postgrad res. are available in all depts.

**ALLIANCE** Students from the Univ. of Tübingen regularly spend 1 or 2 terms at Leicester and there are frequent exchange visits by sports teams

**STUDY LEAVE.** No regular practice, but some deals generously with applicants by members of staff for leave of absence

**FEEs.** Annual competition fee (incl. registration, matric., tuition, exam and graduation, but excl. students' union sub. and lab. fees) BA, £60, BSc, £75, MA, PhD (arts and soc. scis.), £60, MSc, MEd, PhD (sci.), £75; cert. in educn, £60; dipl. in soc. psychol. of educn, £85; cert. in appl soc studies, £64 Students' union sub. (compulsory), £5 5s p a

**ACADEMIC YEAR** Oct to June 3 terms of 10 wks each.

**EXTRA-MURAL ADULT EDUCATION** (see also 'Teaching Staff', above) The extra-mural dept covers Leicester, central and south Leicestershire, Northamptonshire and Rutland, and its main centre at Vaughan Coll. (High St., Leicester; tel., Leicester 57168) provides a wide range of courses in non-vocational subjects and full student amenities.

**SCHOLARSHIPS** Open scholars, value £100 a yr., are awarded annually on a scholastic exam held in Jan

**POSTGRADUATE AWARDS** open to grads. of other univs see p 910

**APPOINTMENTS.** An appts. service, under the direction of the appts. officer, is provided for present and former students

**GRADUATES' ASSOCIATIONS** For convocation, see 'Constitution', above. The Old Students' Assocn holds a reunion in Sept each yr. and keeps members in touch with each other and with univ. activities and developments by means of regular *News Letters*.

**RESIDENCE** (For wardens, see 'Admin. and Other Staff', above). For women (fees £150 a session) College Hall, Knighton Rd. (tel., warden, Leicester 73345), 240 students; Clare Hall, Elms Rd. (tel., warden, Leicester 73377), 140 students For men (fees £155 a session) Beaumont Hall, Stoughton Drive South (tel., warden, Leicester 77321), 220 students; Digby Hall, Stoughton Drive South (tel., warden, Oadby 5977), 210 students; Gilbert Murray Hall, Manor Rd. (tel., warden, Oadby 2263), 120 students; Salisbury Hall, Salisbury Rd. (tel., warden, Leicester 21817), 90 students

**STUDENTS' UNION** (tel. Leicester 50638) All full-time students are required to be full members of the students' union, which controls the 60 clubs and socs. which organize its social, cultural and athletic activities.

**ATHLETIC FACILITIES** Two athletic grounds and pavilions are available, one at Wigston Fields, with pitches for cricket, hockey and rugby, and hard tennis courts; the other at University Fields, Oadby (Fields House, Manor Road (tel., Oadby 864)), with a first-class cinder running track, hard tennis courts, and pitches for cricket, soccer and hockey.

**PUBLICATIONS.** *Calendar* (yearly), *Handbook* (annually), *Gazette* (termly), *Report and Accounts* (annually), *Publishers' List* (annually), *Journal of Transport History* (half-yearly), *Journal of Commonwealth Political Studies* (half-yearly), *Philosophical Books* (quarterly), *English Local History Occasional Papers* (two or three annually), *Leicester and its Univ.* by Prof. J. Simmonds (1957), *New University*, a history of the Univ. Coll. by Prof. J. Simmonds (1958), 12s, *Inaugural Lectures*, students' union magazine *The Lucan*.

**UNIVERSITY PRESS** The univ., through the Leicester Univ. Press, regularly publishes books and papers of an academic character. Details are given in the *Publishers' List* issued by the press.

**UNIVERSITY BOOKSHOP** There is a univ. bookshop, run by the univ. and open to the public, in the refectory and students' union bldg.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs completed phys.; men's hall of residence (154 places)

**RETIREMENTS.** Rhoda Bennett (librarian).

**RESIGNATIONS** Dr C. H. Wilson (vice-chancellor), apptd. principal and vice-chancellor, Glas.; Dr C. Ebborn (chem.), apptd. to chair, Sussex; G. C. Nerlich (phys.), apptd. sr. lectr.,

Syd.; Dr. I. G. Goss (geol.), apptd. lectr., Leeds

**DEATHS** Sheila S. McKay (dir., soc. studies)

**HONORARY DEGREES.** LL.D.—Dr G. H. Wilson, vice-chancellor; Lord Robbins of Clare Market; D. Low, cartoonist. D.Litt.—Prof. Sir Frank Adcock DSc—Prof. Sir Bernard Levell.

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . . . .	1016	66
Women . . . . .	569	13
Total	1585	79

Distribution by Faculties Arts, 451, *educn*, 185, *sci*, 650, *soc. sci*, 299. Total, 1585.

Included in the figures above are —

Postgraduate students, 228

New admissions, 734

Students from other countries, 106. (Countries from which largest numbers came: Nigeria, 10, Sudan, 9).

DIPLOMAS AWARDED (1960-61). Arts: BA, 100; MA, 2. *Educn*: MEd, 1. *Soc. sci*: BSc, 116; MSc, 6. *Soc. sci*: BA, 43, MA, 1. PhD (all *scs*) 10. Total number of first degrees awarded, 259.

DIPLOMAS AWARDED (1960-61) Soc. studies, 10.

CERTIFICATES AWARDED (1960-61) Grad educn, 128, appl. soc. studies, 3.

# UNIVERSITY OF LIVERPOOL\*

Founded 1903; previously established as University College, Liverpool, 1881

Postal Address: Brownlow Hill, Liverpool 3, England

Cables and Telegrams: University, Liverpool

Telephones: Royal 6022

VICEROY—H M THE QUEEN

CHANCELLOR—The Most Hon. THE MARQUESS OF SALISBURY, KG, JP, Hon. DCL OXON., Hon. LLD MAN., Camb., Lond. & Liv., Hon. LittD Ede., FRS

PRO-CHANCELLOR—D. NORMAN, MC, JP, MA Camb., Hon. LLD Med.; The Rt Hon. THE VISCOUNT LANSDEVILLE, TD, JP, BA Camb., President of the Council

VICE-CHANCELLOR—SIR JAMES MOUNTEITH, MA OXON. & Birm., D.Litt Birm., Hon. DCL OXON., Hon. LLD Water, Birm., Manc., Lond. & Alta., Hon. LittD Dub.

VICE-PRESIDENT OF THE COUNCIL—B. NELSON, CBE, JP

TREASURER—E. A. G. CANNON, CBE, BA Camb.

DEPUTY-TREASURER—H. B. CHURCH, MA Camb.

PRO-VICE-CHANCELLOR—Professor F. E. HYDE, MA PhD Lond., FRHistS; Professor L. ROSENHEAD, CBE, PhD Lond. & Camb., DSc Lond., FRS

DEAN OF THE FACULTY OF MEDICINE—J. M. LEGG, MB ChB, FRCS

REGISTRAR—H. H. BURCHALL, MA OXON.

LIBRARIAN—D. A. CLARKE, MA OXON.

## TEACHING STAFF

[†=Part-Time]

Accountancy, see Comm.

### Anatomy

HARRISON, R. G., MA DM OXON., Derby Prof.

BRANTFORTH, J. L., MD Manc., PhD, St. Lectr.

MACMILLAN, E. W., MBE, MD Edin., Sr. Lectr.

HARRISON, G. A., MA Camb. & Oxon., DPhil

Oxon., BSc Lond. (Phys. Anthropol.) Lectr.

CLEGG, E. J., MB ChB Sheff., PhD, Lectr.

BOWSER, D. R., MA MD Camb., PhD, Lectr.

MAYER, D., BSc MB ChB Manc., FRCSed, Lectr.

HUGHES, J. H., MD ChM, FRCS

(Appl. Surg. A.) †Lectr.

WHISKER, P. H., MD DMRE, FFR

(Appl. Radial. A.) †Lectr.

JONES, R. O., BSc MB ChB, Demr.

REYNOLDS, R. M. P., MA BM BCh Oxon., Demr.

PERRY, E., CBE, MB ChB, FRCS, FRCSed, Temp. Demr.

CODDINGTON, W. G., MB ChB, Cancer Res. Asst.

Archaeology, see also Hist., Anc.

FAIRMAN, H. W., MA (Egyptol.) Brunner Prof.

POWELL, T. G. E., MA Camb., FSA

(Prehistoric A. of W. Europe) Rankin

St. Lectr.

### Architecture, see also Civic Des.

GARDNER-MEDWIN, R., BArch DiplCivac

Design, FRIBA, Rascoc Prof.

Senior Lecturers and Studio Instructors

WILKINSON, S., BAArch

MORGAN, B. G., BAArch PhD DiplCivacDesign

HUGHES, J. Q., MC, PhD Lond., BAArch

DiplCivacDesign

Lecturers and Studio Instructors

PHILLIPS, W. J., DiplArch Cardiff, DiplCivac

Design

BECCH, G. R., BAArch DiplCivacDesign

THOMPSON, J. S., TD, BAArch

FLETCHER, L. J., IngArch PolishSch. of Archt. (Law.)

DiplCivacDesign

STEWART, D. M., DA DupTP Edin.

JONES, F. M., BAArch

HARRIS, R. L., BEng

Pinfold, E. C.

RILEY, C., BAArch MCD

\* Member of the Association of Universities of the British Commonwealth

## †Assistant

Brock, D. Le M., BArch Dipl Civic Design  
 Honorary Instructor in Architectural Crafts-  
 manship  
 Smith, H. T., Hon MA

## Bacteriology, see Medicine

## Biochemistry

Morton, R. A., PhD DSc, FRIC, FRS  
 Johnston Prof  
 Glover, J., MSc Belf., DSc PhD  
 Leverhulme Sr. Lectr  
 King, H. K., MA PhD Camb., FRIC Sr Lectr  
 Pat, G. A. J., BSc PhD Lectr  
 Green, C., BSc PhD Lectr  
 Hemming, F. W., BSc PhD Lectr  
 Pennock, J. F., BSc PhD Lectr  
 Halliway, Hester M., BSc DPhil Oxon. Lectr

## Botany

Buages, N. A., MSc Syd., PhD Camb.  
 Holbrook Gaskell Prof.  
 Heywood, V. H., BSc Edu., PhD Camb.,  
 FLS Sr. Lectr  
 Coult, D. A., MSc Lond Lectr  
 Barrow, Mrs. Elma M., BSc PhD Lond,  
 FLS Lectr  
 Dyson, P. S., MSc PhD Manc. Lectr  
 Hurst, H. M., BSc PhD Lond Lectr  
 Parkinson, D., BSc Lond, PhD Nott. Lectr  
 Boulter, D., MA DPhil Oxon. Lectr  
 McNeill, J., BSc PhD Edu. Lectr  
 Cook, C. D. K., BSc Edu., PhD Camb. Lectr  
 Thurman, D. A., BSc Lond, PhD Wales Lectr  
 Walsh, J. H., MA DPhil Oxon. Lectr  
 Gray, T. R. G., BSc PhD Nott. Asst. Lectr.  
 Hulme, J. K. Hon. Lectr.  
 Cook, A. R., MSc Lond Demr.  
 Winterhalder, E. K., BSc Wales Res Asst.

## Celtic Studies

Richards, M., MA Wales, PhD, FRHistS,  
 FSA  
 Reader, Hon Lectr. in Comp. Philol

## Chemistry, Inorganic, Physical and Industrial

Bawn, C. E. H., CBE, BSc PhD Brit.,  
 FRS  
 (Inorg & Phys. C.) Grant Brunner Prof  
 Bamford, C. H., MA PhD ScD Camb.  
 (Indust. C.) Campbell Brown Prof.  
 Hickling, A., DSc PhD Shff., FRIC  
 (Phys. C.) Reader  
 Bateman, F. D. S., BSc PhD Lond.  
 (Radiochem.) Sr. Lectr.  
 Holliday, A. K., DSc PhD Leeds, FRIC  
 Sr. Lectr.  
 Douglas, H. W., DSc PhD, FRIC Sr. Lectr.  
 Grimley, T. B., BSc PhD Brit. Sr. Lectr.  
 Tipper, C. F. H., DSc PhD Brit. Sr. Lectr.  
 Skirrow, G., BSc PhD Lond. Lectr.

Sutcliffe, L. H., BSc Lond, PhD Leeds Lectr  
 Brennan, D., BSc PhD Belf. Lectr.  
 Margerson, D., BSc PhD Lectr.  
 Ledwith, A., BSc Lond, PhD Lectr.  
 Bradley, J. N., BSc PhD Rom Lectr  
 Hughes, G., BSc PhD Manc. Lectr.  
 North, A. M., BSc PhD Aberd Lectr.  
 Nicholls, D., BSc PhD S'ton Lectr  
 Pecney, J., BSc PhD Lectr.  
 Block, H., BSc PhD Lond. Lectr  
 Morris, D. G., BSc Lond. Demr.

## Chemistry, Organic

Kenner, G. W., PhD ScD Camb  
 Heath Harrison Prof.  
 Rutterby, A. R., DSc Manc., PhD St. Ind. Prof.  
 Beer, R. J. S., MA DPhil Oxon. Sr. Lectr.  
 Dean, F. M., BSc PhD Sr. Lectr.  
 Holker, J. S. E., MSc PhD Sr. Lectr.  
 Jackson, A. H., MA PhD Camb. Lectr  
 Robinson, M. J. T., MA DPhil Oxon. Lectr  
 Sheppard, R. C., MA PhD Camb. Lectr  
 Bethell, D., BSc PhD Lond. Lectr  
 Abraham, R. J., BSc PhD Birm. Lectr  
 Shaw, D. F., BSc PhD Manc. Lectr.  
 Tomlinson, C., BA Camb., MSc Lectr.  
 Staunton, J., BSc PhD Lectr  
 Sach, G. S., BSc Lond Demr  
 Turner, R. W., BSc Demr  
 Morton, R. B., BSc Demr  
 Smith, A. E., BSc Demr  
 Royall, D. J., BSc Lond Demr

## Civic Design

Wright, H. M., MA Camb., FRIBA, Leverhulme Prof.  
 McCaughan, R. E. M., MA BArch, FSA  
 Sr. Lectr.  
 Reynolds, Josephine P., MA BArch Lectr.  
 Brenkov, P., MA Dipl Civic Design  
 Lectr & Studie Instr  
 Crompton, D. H.  
 Leverhulme Res. Fellow & Lectr.  
 Weddle, A. E., BArch DipTP Durb  
 (Landscape Des.) Lectr

## †Special Lecturers

Taylor, A. J. E., LL.M.  
 (Law Relating to Planning & Housing)  
 Reed, C. D., MEng (Principles of Civic Engin.)

## Classes, see Greek, and Latin

## Commerce

McKenzie, R. J. H., FCA (Accty.) †Lectr.

## Dentistry, see below

## Economics

Hyde, F. E., MA PhD Lond., FRHistS  
 Chaddock Prof.  
 Shackle, G. L. S., BA PhD Lond.,  
 DPhil Oxon. (Econ. Sci.) Brunner Prof.

Clifton, G., MA Camb.	Sr. Lectr.	Hunter, G. K., MA Glas., DPhil Oxon	
Robertson, W., MA St. And.	Sr. Lectr.		Sr. Lectr.
Saul, S. B., BCom PhD Birm.	Sr. Lectr.	Davies, R. T., MA Oxon.	Lectr.
Pease, S., MSc(Econ) Lond.	Lectr.	Grundy, Joan, MA Lond	Lectr.
Marriner, Sheila, MA PhD	Lectr.	Schaefer, E., MA Yre	Lectr.
Parker, H. R., BA	on leave) Lectr.	Bawcutt, N. W., MA	Lectr.
Osburn, W. T., MA Camb., BSc(Econ) Lond	Lectr.	Erwin, Mrs. Inge-Stuna, MA Sheff.	
		BA Car., Falkland Gebelung	Asst. Lectr.
Cunningham, N. J., BA	(on leave) Lectr.	Thomas, Gillian, BA BLitt Oxon	†Temp. Lectr.
Harris, J. R., MA PhD Manc.	Lectr.		
Smith, R., BA PhD Birm.	Lectr.		
Smyth, R. L., BComSc Belf	†Temp. Lectr.		
Bean, R., MA Ad.M., BCom	Asst. Lectr.		
Edge, Stephanie K., BA Camb.	Asst. Lectr.		

## Education

Porteous, A. J. D., MA Edu., & Oxon	Sydney Jones Prof.
Tempest, N. R., EdM Harv., MA	
William Roscoe Prof., Du. Inst. of Educn.	
Murphy, J., MA PhD, FRHistS	Sr. Lectr.
Spence, Margaret B., MA Brst., PhD	Lectr.
Wallace, J. E., DMus Durb., FRCO	(Music) †Sp. Lectr.
Tozer, A. H. D., MA Camb.	Lectr.
Goffitch, J., MA, FRHistS	Lectr.
Moore-Rivalluen, Mrs. Miss J., DUSbas	
MA	Lectr.
Larwood, H. J. C., MSc MED Darb.	Lectr.
Duncan, T., BSc St. And.	Lectr.
Hughes, W. J., BSc Wales, PhD Camb.	Lectr.
Graves, N. J., BSc(Econ) MA Lond	Lectr.
Steel, Mrs. Eileen M., MA Oxon.	(Geog.) †Sp. Lectr.

Robertson, G. S., MD Tor.	(Physiol. & Sch. Hyg.) †Sp. Lectr.
Willingworth, Sarah, BSc	(Maths) †Sp. Lectr.
Attles, Muriel, MA StH Oxon.	
Brennell, Cecily D., MA	(Relig. Instrum.) †Sp. Lectr.
Perks, M. T., MA BLitt Oxon	
	†Tutor & Demonstrator
Murphy, Mrs. Anna-Britta (Weaving)	†Teacher
2 Supervisors in School Practice	

## Egyptology

Fairman, H. W., MA	Brunner Prof.
Kitchen, K. A., BA	(Egyptian & Coptic) Lectr.

## Engineering, see below

## English Language and Philology

Potter, S., MA Lond., BLitt Oxon.	Baines Prof.
PhD Fregue	Reader
Colledge, E., MA	Lectr.
Bazins, Joyce, MA Leeds	Lectr.
Blake, N. F., MA BLitt Oxon.	

## English Literature

Muir, K., MA Oxon	King Alfred Prof.
Allott, K. C. B., MA Durb., BLitt Oxon.	
	A. C. Bradley St. Lectr.
Allott, Mrs. Muriel, MA PhD	Sr. Lectr.

## Entomology, see Parasitology

## Esperanto

Lamb, N. J., MA	†John Buchanan Lectr.
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## French

Fletcher, F. T. H., MA DLitt Birm.	James Barrow Prof.
DUNancy	
Linskill, J., DUSbas, MA Durb.	Sr. Lectr.
Knowles, Dorothy, MA Leeds, DPhil Paris	Lectr.
Currier, A. C., MA	Lectr.
Rees, G. O., MA Wales	Lectr.
Zaina, Lucrezia A., MA	Lectr.
Chadwick, C., DUParis, MA	Lectr.
Smethurst, C., BA Oxon.	Asst. Lectr.
Rees, Mrs. Margaret A., MA PhD Lond	†Asst.
2 Tutors	

## Genetics

Sheppard, P. M., MA DPhil Oxon	Prof.
Walker, S., BSc PhD Lond	Lectr.
Cox, B. S., MA DPhil Oxon.	Lectr.
Gall, J. J. B., BSc Aberd.	Res. Asst.

## Geography

Steel, R. W., BSc MA Oxon	Rankin Prof.
Lawton, R., MA	Sr. Lectr.
Gregory, S., MA PhD, FRMetS	Sr. Lectr.
Simpson, E. S., MA	Lectr.
Brooks, E., MA PhD Camb.	Lectr.
Patmore, J. A., MA BLitt Oxon.	
	(on leave) Lectr.
Prothero, R. M., MA Wales, PhD	Lectr.
Driscoll, E. M., MSc Lond.	Lectr.
Hurley, J. B., BA PhD Birm.	Lectr.
Gresswell, R. K., MA PhD, FGS	Lectr.
Thomas, F. H.	Temp. Lectr.
Kenworthy, Joan M., MA BLitt Oxon	Asst. Lectr.
2 Tutors	

## Geology

Pitcher, W. S., BSc PhD Lond	
	George Herdman Prof.
Harper, J. C., MSc Lond., PhD, FGS	Sr. Lectr.
Finn, D., BSc PhD Lond, FGS	Sr. Lectr.
Rast, N., BSc Lond, PhD Glas., FGS	Sr. Lectr.
Wilson, C. D. V., MA PhD Camb	Lectr.
Barhurst, R. G. C., MSc Lond., FGS	Lectr.
Atherton, M. P., BSc PhD Sheff.	Lectr.
Kilburn, C., BSc Durb.	Res. Asst.
Brenchley, P. J., BA Camb.	Demonstrator

**German**

Williams, W. D., MA DPhil Oxon	Prof
Wirtz, Erica A., MA	Lectr.
Barker, D., MA	Lectr.
Fov, W. H., MA	Lectr.
Harriman, L., BA Bonn.	Lectr.
Leaver, Jean M., MA Lond.	Lectr.

**Greek**

Armstrong, A. H., MA Camb.	Gladstone Prof
Penant, J., MA DPhil Oxon	Lectr.
Collard, C., MA Camb	Lectr.
Martin, W. J., MA Dub., PhD Leyp.	
(Hellenistic G.) Hon. Lectr.	

**Hebrew and Ancient Semitic Languages**

Martin, W. J., MA Dub., PhD Leyp.	
	Rankin Sr. Lectr.

**Hispanic Studies**

Lamb, N. J., MA	(Spanish) Gilmour Prof
	(Portuguese & Spanish) Sr. Lectr.
de Lara, María V., Licenciada Let Madrid	
	(Spanish) Lectr.
Hall, H. B., MA	(Spanish) Lectr.
Crespo, F. de D., Licenciado Let Leobor.	
	(Portuguese) Lectr.
Loeuv, D. W., MA DPhil Oxon	
	(Spanish) Lectr.
Edwards, G., BA Wales, PhD Lond.	
	(Spanish) Asst. Lectr.

**Histology**

Hanov, N. M., MD	Reader
Kruszynski, J., MD Viena	Lectr.
Beckett, Evelyn B., BSc PhD Lond.	Lectr.
Owen, J. J. T., BSc MB ChB	Lectr.
Kellas, Lorna M., BSc Aberd., PhD Lond.	Lectr.
Boothroyd, B., BSc PhD Leeds	
	Electron Microscopist

**History, Ancient, and Archaeology, Classical**

Walbank, F. W., MA Camb., FBA	
	Rathbone Prof
Emmes, J. V. H., MA Oxon, FSA	
	C. W. Jones Lectr.
Marsden, E. W., MA PhD Camb	Lectr.
Burford, Alison, MA Camb	Lectr.

**History, Ecclesiastical**

Hennell, Rev. M. M., MA Oxon.	Hon. Lectr.
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**History, Medieval**

Brooks, C. N. L., MA Camb., FRHistS	Prof.
Myers, A. R., MA PhD Manc., FRHistS,	
FSA	Reader
Oschinsky, Dorothea, PhD Lond., DrPhil Bres.	
	(Palaeog.) Lectr.
Matthew, D. J. A., MA DPhil Oxon.	Lectr.
Markus, R. A., BSc MA PhD Manc.	Lectr.
France, R. S., Hon. MA	†Sp. Lectr.

Vanes, J. C., LL.M.	†Sp. Lectr.
Wolne, P., MA Camb., FRHistS	†Sp. Lectr.
Mayr-Harting, H. M. R. E., BA Oxon	
	Asst. Lectr.
Kieby, D., MA Durh.	Asst. Lectr.

**History, Modern**

Quinn, D. B., MA DPhil Belg., PhD Lond.,	
FRHistS	A. Geddis & J. Rankin Prof
Bell, P. M. H., BA Hants Oxon	Lectr.
Collins, Mrs. Irene, MA Bant Oxon,	
FRHistS	Lectr.
Rowe, W. J., MA DPhil Oxon., FRHistS	Lectr.
Ryan, A. N., MA, FRHistS	Lectr.
Ives, E. W., BA PhD Lond.	Lectr.
Sherrin, J. H., BA	Asst. Lectr.
Bond, B. J., BA Oxon., MA Lond.	Asst. Lectr.

**Italian**

Pathfull, R. G., BA Lond., PhD	Lectr.
Dawson, F., BA	Lectr.
Calma, Mrs. Anna, DeLett Turin	Tutor

**Latin**

Austin, R. G., MA Oxon, Hon. D.Litt. Glas.	
Hon. DUBoisson	Prof.
Bonner, S. F., MA Camb	Sr. Lectr.
Townsend, G. B., MA Oxon.	Sr. Lectr.
Barr, W., BA PhD Lond.	Lectr.
Foster, J. C. B., MA Aberd.	Asst. Lectr.

**Law**

Davies, D. R. Seabrook, JP, MA Camb.,	
LLB Wales	(Common L.) Prof.
Browne, D., MA Oxon.	Queen Victoria Prof
Vanes, J. C., LL.M.	Sr. Lectr.
Newton, J. D., LLB Lond.	Sr. Lectr.
Geddis, W., MA LL.M.	†Warr Memorial Lectr.
Routledge, K. G., LL.B.	†Lectr., †Tutor
Taylor, A. J. E., LL.M.	†Lectr.
Bulmer, D. L., BA LLB Camb.	Lectr.
Cumhiffe, J. M., BCL Oxon., LL.B.	†Tutor

**Marine Biology, etc., see p. 1056****Mathematics, Applied**

Rosenhead, L., CBE, PhD Leeds & Camb.,	
DSc Leeds, FRS	Prof
Fletcher, A., MA PhD Camb	Reader
Young, A., BSc St And., PhD	
(Numerical Analysis) Reader, Dir. of	
Computer Lab.	
Aitchison, J., MA Educ. & Camb.	
(Mathl. Stats.) Sr. Lectr., Hd. of	
Sub-Dept	
Daymond, S. D., MA Oxon, BSc Lond. &	
Wales, PhD	Sr. Lectr.
Williams, W. E., MSc PhD Manc.	Sr. Lectr.
Jackson, T. A. S., MA PhD Camb.	Lectr.
Baldock, G. R., BSc Lond., PhD	Lectr.
Booth, F., MA Camb.	Lectr.
Brenner, Sheila, MA Camb., PhD Birm.	Lectr.

- Kirk, A., BEng (Numerical Analysis) Lectr  
 Tweedie, M. C. K., MSc R'dg. (Mathl. Stats.) Lectr.  
 Rayner, C. B., BSc PhD Lond Lectr  
 Watt, J. M., MA Camb (Numerical Analysis) Lectr.  
 Drake, D. G., BSc PhD Sten. Lectr  
 Green, J. R., BSc PhD (Mathl. Stats.) Lectr  
 Terrill, R. M., BSc PhD Lectr  
 van der Burg, M. G. J., BSc PhD Lond. Lectr.  
 Skul, R., BSc PhD Lond. Lectr  
 Kingston, A. E., BSc PhD Belf Lectr  
 Messer, P. J., MA PhD Camb Lectr  
 Boyer, R. H., MS Phil., DPhil Oxon Lectr  
 Goodbody, A. M., BSc PhD Lectr  
 Klotz, A. H., MSc Lond. Lectr  
 Underhill, J., BSc PhD Lond Lectr  
 Lancaster, P., MSc Lectr  
 Johnston, R., BSc Glas. Lectr  
 Taylor, N. W., MSc Syd., PhD N.E. Temp Lectr  
 Morgan, R. N., BSc PhD Asst Lectr  
 Bridgeman, T., BSc PhD Asst Lectr  
 Anthony, J. G. H., BA Camb Res Asst  
 Barch, M. W., BA Camb. (Mathl. Stats.) Res Asst

2 Computer Officers

#### Mathematics, Pure

- Walker, A. G., MA Oxon, DSc Edin., FRS Prof.  
 Willmore, T. J., DSc PhD Lond Reader  
 Flett, T. M., PhD ScD Camb. Sr. Lectr  
 Maitland, Barbara J., MA PhD Camb Lectr  
 Newna, W. F., BSc PhD Lectr  
 Ledger, A. J., BSc PhD Durb Lectr  
 Butler, M. R. C., MA BSc PhD Melf Lectr  
 Horrocks, G., MA PhD Camb (on leave) Lectr  
 Robertson, S. A., BSc PhD St And. (on leave) Lectr.  
 Rayner, F. J., MA DPhil Oxon Lectr  
 Brown, R., MA DPhil Oxon Lectr  
 Porteous, I. R., MA Edin., PhD Camb Lectr  
 Schwarzenberger, R. L. E., MA PhD Camb. Lectr  
 Irwin, M. C., MA Camb. Lectr  
 Rutter, J. W., BA Oxon Lectr  
 Stratton, A. E., BA Keele Res Asst  
 Marshall, E. I., BA Oxon. Res Asst  
 Kuran, U. Res Asst  
 Priddy, M. J. M., BSc Birm Res Asst

#### Medicine, see below

#### Musie

- James & Constance Alsop Prof.  
 Wallace, J. E., DMus Durb., FRCo In charge

#### Oceanography

- Bowden, K. F., DSc Lond., FIP Prof.  
 Riley, J. P., DSc PhD, FRIC Sr. Lectr.  
 Hughes, P., BSc Lectr.  
 Howe, M. R., BSc PhD Lectr  
 Chester, R., BSc Manc Asst. Lectr.

Parasitology and Entomology, see  
 Medicine, below

Philology, see Engl Lang., and Celtic

#### Philosophy

- Lloyd, A. C., BA Oxon Prof.  
 Huby, Mrs. Pamela M., MA Oxon. Lectr.  
 Taylor, D. M., BA Oxon Lectr

#### Physics

- Cassels, J. M., MA PhD Camb., FRS  
 Lyon Jones Prof.  
 Frohlich, H., DrPhil Munich, Hon. DSc Rennes, (Theoret. P.) Prof.  
 FRS  
 Morrison, A. W., BSc Lond., PhD (Exper. P.) Prof.  
 Holt, J. R., BSc PhD Reader  
 Collings, B., BSc PhD Reader  
 Green, L. L., MA PhD Camb Reader  
 Moore, M. J., JP, MSc Sr. Lectr.  
 Huby, R., MA Camb., PhD Birm. (Theoret. P.) Sr. Lectr.  
 Willmott, J. C., BSc PhD Lond Sr. Lectr.  
 Parbrook, H. D., BSc PhD Durb. (Acoustics) Sr. Lectr.  
 Evans, W. H., BSc PhD Wales Sr. Lectr.  
 Munro, W. R. H. F., BSc PhD Birm. Sr. Lectr.

- Parry, G., BSc Lond., PhD Sr. Lectr.  
 Martin, D. G. E., BSc Lectr  
 News, H. C., BSc PhD (Theoret. P.) Lectr  
 Wormald, J. R., MA PhD Camb Lectr.  
 Allcock, G. R., BSc PhD (Theoret. P.) Lectr.  
 Frank, S. G. F., BSc Lond., PhD Camb Lectr  
 Davies, M. G., BSc PhD Leeds (Acoustics) Lectr  
 Ruckayson, G., BSc PhD Lond (Theoret. P.) Lectr  
 Edwards, D. N., BSc PhD (on leave) Lectr.  
 Tempest, W., BSc PhD (Acoustics) Lectr.  
 Donald, R. A., BSc PhD Edin. Lectr  
 Mason, P., BSc PhD Exe Lectr.  
 Chalmers, T. A., BSc PhD Lond. (Med. Radiol.) Sp. Lectr.

- Andrews, P. T., BSc PhD N Z Lectr.  
 Dagley, P., MA DPhil Oxon. Lectr.  
 James, A. N., MA PhD Camb. Lectr.  
 Main, I. G., BSc MA Qu., PhD St And. Lectr  
 Court, G. R., BSc PhD Birm Lectr  
 Holmes, R., BSc PhD (Acoustics) Lectr.  
 Woodhead, T., BSc Asst Lectr  
 Hart, W., BSc Demr.  
 Sloan, T., BSc Demr.  
 Smith, F. A., BSc Wales Demr  
 Booth, P. S. L., BSc Demr  
 Chiff, R. W., BSc Demr.  
 Hattersley, P. M., BA Oxon Demr.  
 Sharpey-Schafer, J. F., BA Camb. Demr  
 Twin, P. J., BSc Demr

#### Physiology

- Gregory, R. A., DSc PhD Lond. George Holt Prof.

Calma, L., MD *Médecin* (Exper. P) Sr Lectr.  
 Richards, T. G., MD PhD Sr Lectr.  
 Baker-Bates, E. T., MD, FRCP (Appl. P) †Lectr.

Kidd, G. L., MSc PhD Lectr.  
 Roberts, D. V., BSc MB ChB Lectr.  
 Tacey, Hilda J., MB ChB Lectr.  
 Neame, K. D., MB BS Lond., PhD Sheff Lectr.  
 O'Maille, E. R. L., MB BCh BAO Lectr.  
 BSc N U I Lectr.  
 Short, A. H., BSc MB ChB Lectr.

#### Political Theory and Institutions

Harrison, W., MA Glas & Oxon. Prof.  
 Wilson, N., MA DipPA (Pub. Adm.) Leverhulme Lectr.  
 Ridley, F. F., BSc(Econ) PhD Lond. Lectr.  
 Parks, P. G., BA Trin. & Oxon. Asst Lectr.  
 Taylor, P. G., BA Wales Temp Asst Lectr.  
 6 Sp. Lectrs.† (for dipl. in pub. admin.),  
 a †Tutors† (for dipl. in pub. admin.)

#### Portuguese, see Hispanic Studies

#### Psychology

Hearnshaw, L. S., MA Oxon. Prof.  
 Crawford, Agnes, BA PhD Lond. Lectr.  
 Bromley, D. B., BA Manc., PhD Lectr.  
 Leytham, G. W. H., MA Calif. Lectr.  
 Straker, D., MA Camb. Lectr.  
 Leveson, I., MD †Lectr.  
 Heron, A., MSc Manc., PhD Lond. Hon. Lectr.  
 Farrumond, T. M., BSc PhD Hon. Lectr.  
 Schubert, J., BA Jerusalem, MA N Y Hon. Lectr.  
 Calderwood, M. T., BA Demr.  
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 † Supervisor† of Remedial Reading Clinic

#### Russian

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 Henry, P., MA Oxon. Lectr.  
 O'Toole, L. M., BA Oxon. Lectr.  
 Thomson, R. D. B., MA Oxon. Lectr.

#### Social Science

Smey, T. S., MA Oxon. Charles Booth Prof.  
 Scott, W. H., BA PhD (Indust. Social) Reader.  
 Chapman, D., BSc(Econ) Lond., PhD Sr Lectr.  
 Silcock, H., MA DipIPA Lectr.  
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 Deed, Dorothy M., MA Camb. Lectr.  
 Jehu, D., BA R'g. Lectr.  
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 Farmer, Mrs. Mary E., BA Lectr.  
 Boss, P., DipSS Lond., DPA Brit. Lectr.  
 Yelloly, Margaret A., MA St And. Tutor.  
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 Keenan, Mrs. Olive L. †Tutor.

Carey, A. S., MB ChB DPH Leeds (Admin. of Mental Health Services) †Lectr.

Begg, T. L., MB ChB DPH Aberd. (Admin. of Mental Health Services) †Lectr.

Simpson, I. Joan, BA Dark Hon. Lectr.  
 Banks, J. A., MA Lond. Sr. Res. Lectr.  
 Mays, J. B., MA PhD Sr. Res. Lectr.  
 Banks, Mrs. Olive L., BA PhD Lond. Res. Lectr.  
 McGivering, I. C., MA Res. Lectr.  
 Gittus, Elizabeth, MA Res. Lectr.  
 Rankin, N. H., BSc Lond. Res. Worker.

#### Spanish, see Hispanic Studies

#### Veterinary Science

Wright, J. G., Hon DSc Brit., MVSc, FRCVS (Vet. Surg.) Prof.  
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 Hughes, D. L., PhD DipBact Lond., FRCVS (Vet. Pathol.) Prof.  
 King, A. S., BSc(VetSci) PhD Lond. (Vet. Anat.) Prof.  
 Davies, G. O., DVSc DVH (Vet. Pathol.) Reader.  
 Joshua, Joan O., FRCVS (Vet. Surg.) Reader.  
 King, J. O. L., BSc(Agric) R'g., MVSc PhD (Animal Husb.) Reader.  
 Buxton, A., PhD Camb., FRCVS (Vet. Bacteriol.) Sr. Lectr.  
 Jordan, F. T. W., BSc(VetSci) PhD Lond. (Vet. Prev. Med.) Sr. Lectr.  
 Dransfield, J. W., MVSc (Vet. Anat.) Sr. Lectr.  
 Singleton, A. G., BVSc (Vet. Physiol.) Sr. Lectr.  
 Glover, T. D., BSc Edin., MA PhD Camb. (Vet. Anat.) Lectr.  
 Barnes, M. McC., BSc Brit., PhD Birm. (Vet. Biochem.) Lectr.  
 Allen, D. (Appl. Vet. Pathol.) Lectr.  
 Cornwell, R. L., MVSc (Vet. Prev. Med.) Lectr.  
 Neal, F. A., BSc BVSc (Vet. Surg., Farm Animals) Lectr.  
 Ratcliff, H. E., BVSc (Vet. Med., Farm Animals) Lectr.  
 Arnall, L., BVSc (Vet. Med., Small Animals) Lectr.  
 Ewbank, R., BVSc (Animal Husb.) Lectr.  
 Thomlinson, J. R., BSc Edin. (Clin. Vet. Pathol.) Lectr.  
 Clarkson, M. J., BSc MVSc (Vet. Parasitol.) Lectr.  
 Knifton, A., BVSc BSc (Vet. Pharmacol.) Lectr.  
 Howell, J. M., BVSc (Vet. Pathol.) Lectr.  
 Benson, G. K., PhD R'g., BSc (Vet. Histol.) Lectr.  
 Forbes, L. S., BVSc Syd. (Vet. Parasitol.) Lectr.  
 Robinson, D. W., BSc PhD Not. (Animal Husb.) Lectr.  
 Edwards, G. B., BVSc (Med. & Surg., Farm Animals) Demr.  
 Pickering, Mrs. Christine M., BVSc (Vet. Pathol.) Temp. Demr.  
 3 Demes.† in Vet. Pharm.



**Zoology**

- Pumphrey, R. J., MA ScD Camb., FRS  
Derby Prof.  
Smith, C. L., BSc PhD  
Reader  
Jones, J. W., DSc PhD, FLS  
Sr Lectr  
Hynes, H. B. N., DSc PhD Lond.  
Sr Lectr  
Fordham, Miss Mahalah G. C.,  
MSc W. Anst  
Lectr  
Ball, J. N., BSc PhD  
Lectr  
Brinkhurst, R. O., BSc PhD Lond.  
Lectr  
Duncan, C. J., BSc PhD Lond.  
Lectr  
Salzen, E. A., BSc PhD Edin  
Lectr  
White, E., BSc PhD Durk  
Lectr  
Pearson, R. G., BA PhD Camb.  
Lectr  
Chubb, J. C., BSc PhD  
Lectr  
Mercedeth, Mrs Sheila C., PhD Leeds,  
MSc  
{Temp Lectr

**DENTISTRY****Dental Surgery**

- Furner, R. D., MA Camb., MDS,  
FDSRCS  
Louis Cohen Prof  
Tyldesley, W. R., MSc PhD Manc.,  
FDSRCSed  
Lectr  
Williams, H. R., LDS  
Lectr  
Gosse, D. H., BSc BSc (MDS (Prev D)) Lectr.  
Bach, R. H., BDS Durk., FDSRCSed  
(Prev. & Children's D) Lectr  
Melville, T. H., BSc (Agric) Leeds,  
DipBact Manc.  
(D. Bacteriol) Lectr.  
Guyler, T. W. C., BDS  
(Odontol.) † Lectr  
Latham, R. A., BSc BDS Belf  
(Oral Anst) Lectr.  
Halton, J., MB ChB, FPARCS  
(Anesth to D Students) † Lectr.  
Harries, R. L., PhD DSc (D Biochem.) Reader  
Leaver, A. G., BSc PhD (D Biochem) Lectr.  
Traflet, J. T., BSc (D Biochem) Res Asst

**Dental Surgery, Operative**

- Lawton, F. E., DDS Northwestern, BDS,  
FDSRCS  
Prof. Div. of Dent. Educn  
Mumford, J. M., MS Mich., MSc,  
FDSRCS  
Sr Lectr  
Storer, R., MSc, FDSRCS  
(D Prost. & Mechanics) Sr Lectr  
Green, R. M., BDS  
Lectr  
Ferguson, H. W., LDS St. And., MSc,  
FDSRCSed  
Lectr  
Wynne, T. H. M., BDS, FDSRCS  
(Orthodontics) Lectr  
Asherton, J. D., BDS, FDSRCSed  
(Orthodontics) Lectr.  
Newton, A. V., BDS  
(D. Prost. & Mechanics) Lectr  
Turnbull, M. D., BDS  
(D Prost.) Lectr.  
Oliver, W. M., BDS St. And., FDSRCSed  
(Parodontal Dis) Lectr.  
Neubert, E. W., LDS  
(Cln. D.S.) † Lectr.  
Blamire, A., MBE, LDS  
(Cln. D.S.) † Lectr.  
Drake, A. F., BDS  
(Cln. D.S.) † Lectr., Hon. Curator of  
Museum

- Guyler, T. W. C., BDS (Cln. D.S.) † Lectr  
Bird, P. D., LDS (D Radiol.) † Lectr  
Barston, W. R., PhD Camb., LDS  
(Cln. D.S.) † Asst Lectr

**ENGINEERING****Building Science**

- Hendry, A. W., BScEng PhD DSc Aberd  
Prof.  
Bratch, A. L., BScTech BA Manc  
Lectr.  
Benson, A. C., BSc PhD Manc  
Lectr  
Whithead, B., BA Slough  
Lectr  
Wilson, C. R., BSc PhD  
Lectr  
Randell, J. E., BSc PhD Nott  
Lectr

**Civil Engineering**

- Owen, J. B. D., DSc, FRAeS  
John William Hughes Prof.  
Whittington, R. B., MSc Manc., PhD  
Reader  
Bolton, A., MScTech PhD Manc.  
Sr. Lectr  
Nashott, H. G., MEng  
Lectr.  
Waters, H., MEng  
Lectr  
Reed, C. D., MEng  
Lectr  
Prouldove, J. A., MEng  
Lectr  
Halliwell, A. R., BEng  
Lectr  
Ashworth, R., BEng  
Lectr.  
Kang, G. J. W., MSc(Eng) Lond  
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Manning, R. R., BSc(Eng) Lond  
Lectr

**Electrical Engineering**

- Meek, J. M., DEng, FIP, MIEE  
(Electr. Power E.) David Jardine Prof.  
Craggs, J. D., MSc PhD Lond., FIP  
(Electronic E.) Robert Rankin Prof  
Edels, H., BScTech Manc., PhD  
(Electr. Power E.) Reader  
Leek, J. H., MEng PhD (Electronic E.) Reader  
Aldred, A. S., MSc Leeds, PhD  
(Electr. Power E.) Sr Lectr.  
Lynn, J. W., MSc PhD  
(Electr. Power E.) Sr Lectr.  
Durnford, J., BSc(Eng) Lond  
(Electronic E.) Lectr.  
Jones, C. V., BSc Lond., MEng PhD  
(Electr. Power E.) Lectr.  
Whittaker, D., BEng PhD  
(Electr. Power E.) Lectr.  
Parker, A. B., BSc PhD Water  
(Electronic E.) Lectr.  
Prasad, A. N., BEng MSc, PhD  
(Electronic E.) Lectr  
Harrison, J. A., BSc PhD  
(Electr. Power E.) Lectr.  
Lennon, J. J., BSc N.U.I., PhD  
(Electronic E.) Lectr.  
Carter, G., BSc Lond., PhD  
(Electronic E.) Lectr.  
Hewitt, K. R., BSc PhD  
(Electr. Power E.) Lectr  
Lucas, J., BSc PhD Lond.  
(Electr. Power E.) Lectr.  
Barrault, M. R., BEng  
(Electronic E.) Asst. Lectr.

**Mechanical Engineering**

- Horlock, J. H., MA PhD Camb.,  
MIMechE Harrison Prof  
Preston, J. H., MA Camb., BSc PhD Lond.,  
FRACs (Fluid Mech.) Prof  
Calvert, N. G., BEng PhD  
(Fluid Mech.) Sr. Lectr.  
Norbury, J. F., MEng PhD  
(Fluid Mech.) Sr. Lectr.  
Halliday, J., BSc(Eng) Lond. Sr. Lectr.  
Ryley, D. J., MSc(Eng) Lond., PhD Sr. Lectr.  
Barrow, H., MEng Lectr.  
Shaw, R., BEng Lectr.  
Gabbings, J. C., BSc(Eng) PhD Lond.  
(Fluid Mech.) Lectr.  
Mellor, P. B., BEng PhD Sheff. Lectr.  
Satchell, W. J., BScTech Manc. Lectr.  
(on leave) Lectr.  
Ball, K., BEng Lectr.  
Dixon, S. L., BEng Lectr.  
McChesney, M., BSc Glas., PhD Lectr.  
Woods, W. A., BEng PhD Lectr.  
Bishop, G. B., MEng Lectr.  
Dovle, M. D. C., BEng Lectr.  
Brothers, B. G., BSc(Eng) Lond. Lectr.  
Drabble, F., BEng Asst Lectr.  
Walker, C. P., BEng Asst Lectr.  
Drabble, Jean M., BEng  
(Fluid Mech.) Temp. Asst. Lectr.

**Metallurgy**

- Owen, W. S., MEng PhD, FIM  
Henry Bell Wortley Prof  
Kennett, S. J., BSc PhD Lond., FIM Sr. Lectr.  
Hull, D., BSc PhD Waler. Sr. Lectr.  
Burke, J., BEng PhD Sr. Lectr.  
Bodsworth, C., MMet PhD Sheff., FIM Lectr.  
Stranger, J., BEng PhD Lectr.  
Appleton, A. S., BEng PhD Lectr.  
Higgins, G. T., MSc PhD Manc. Lectr.

**MEDICINE**

(for subjects of first 2 yrs—Anat., etc.,  
see above)

**Anæsthesia**

- Gray, T. C., MD, FFARCS Prof  
Rees, G. J., MB ChB, FFARCS  
(Pædiatric A.) Hon. Lectr.  
Geddes, I. C., MD St. And., FFARCS Sr. Lectr.  
Bush, G. H., MA BM BCh Oxon.,  
FFARCS Lectr.  
Rading, J. E., MD, FFARCS †Demr.

**Bacteriology**

- Downie, A. W., MD DSc Hon. LLD Aberd.,  
FRS Prof.  
Robinson, D. T., MSc DipBact Manc.  
Assoc. Prof.  
McCarthy, K., MD Sr. Lectr.  
Dumbell, K. R., MD Sr. Lectr.  
Caunt, Anne E., BSc R'g., DipBact Manc.  
Lectr.

- Rondle, C. J. M., MA Camb., PhD Lond.  
(Chem. Microbiol.) Lectr.  
Bedson, H. S., MB BS Lond., MRCP Lectr.

**Chemical Pathology**

- Taylor, W. H., MA DM Oxon., MRCP  
†Dir. of Studies  
Edgington, D. J., BSc Cancer Res. Asst.

**Child Health**

- Hay, J. D., MA Camb., MD, FRCP Prof  
Todd, R. M., MA MD Camb., MRCP Sr. Lectr.  
Brookfield, R. W., PhD MD DPH, FRCP  
†Lectr. & †First Asst.  
Smithells, R. W., MB BS Lond., MRCP Lectr.  
Durham, R. L. J., MB ChB Brisl., DPH  
†Second Asst.  
Goldblatt, E., BSc MB BCh Lond.,  
MRCP †Lectr.  
Lees, Elizabeth P., MD Belf. †Res. Asst.

**Clinical Pediatrics**

- Brookfield, R. W., PhD MD DPH, FRCP  
†Lectr.  
Farquhar, H. G., BA BM BCh Oxon.,  
MRCP †Asst. Lectr.  
Kendall, S. E., MB ChB, MRCP †Asst. Lectr.  
Robertson, G. S., MD Tor.  
(Clin. Prev. F.) †Hon. Lectr.

**Dermatology**

- Bamber, G. W., BA MD Camb., FRCP  
†Lectr.-in-Charge  
Readett, M. D., MB ChB Brisl., MRCP †Lectr.

**Diseases, Infectious**

- Christie, A. B., MA MD Aberd., DPH Lond.  
†Lectr.

**Forensic Medicine and Toxicology**

- St. Hill, C. A., MB ChB Brisl. †Lectr.-in-Charge

**Materia Medica, Pharmacy, Pharmacology and General Therapeutics**

- Wilson, A., MD PhD, FRFSGlas. Prof  
Wilson, H., MD PhD Sr. Lectr.  
Brookfield, R. W., PhD MD DPH, FRCP  
(Therap.) †Lectr.  
Roberts, J. B., MB ChB Lectr.  
Wilson, C. W. M., BSc MD PhD Edu. Lectr.  
Fairhurst, R., BDS MB ChB, FDSRCS  
(Therap. to Dent. Students) †Lectr.  
Nowell, P. T., BSc PhD  
(Chem. Pharmacol.) Lectr.  
Somers, G. F., BSc PhD Lond.  
(Exper. Pharmacol.) †Lectr.  
1 Demr. † in Pharmacol., 3 Demr. † in Pharm.

**Medicine**

- Cohen of Burkenhead, Rt Hon Lord., JP,  
Hon. DSc *N U I* & *Not*, Hon LLD  
*Wales, Dub. & Le.*, MD, FRCP,  
FRCP, FACP, FDSRCS, FRIC,  
FFR, FRPS, FSA  
Clarke, C. A., MA MD Camb., FRCP Prof  
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†Sr. Lectr. & (Cln M.) †Lectr.  
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Houston, J., MB ChB DPH Glas. (Cln TB) †Lectr.  
Baker-Bates, E. T., MD, FRCP  
†Lectr. & (Cln M.) †Lectr.  
Jones, E. W., MD DPH, FRCP  
†Lectr. in Med to Dent Students &  
(Cln M.) Lectr.  
Sanderson, G., MD, MRCP  
†Lectr. & (Cln M.) †Asst. Lectr.  
McConnell, R. B., MD, MRCP  
†Res. Asst. & (Cln M.) †Asst. Lectr.  
†Lecturers (Cln M.)  
Ellis, G. R., MA MD Camb., FRCP  
Brookfield, R. W., PhD MD DPH, FRCP  
Evans, R. M., MA MB BChir Camb., MB ChB,  
MRCP  
Jones, A. T., MD DPH, FRCP  
†Assistant Lecturers (Cln. M.)  
Hughes, R. R., MD, MRCP  
Cook, W. H. R., MD, MRCP  
Robertson, A. J., MD, MRCP  
Ogilvie, C. M., MD, MRCP  
Sutton, W. S., MB ChB, FRCP  
Also †Lectr. to Dent. Students

**Research Assistants in the Chromosome Unit**

- Sinton, R. B., BSc Edin  
Macintosh, I. J. C., BSc Cape T

**Obstetrics and Gynaecology**

- Jefferson, T. N. A., MD, FRCS, FRCOG Prof  
Francis, H. H., BSc MB ChB N Z, FRCS, FRCS, FRCOG Sr. Lectr  
Francis, Mrs. Wenifred J. A., MD Sr. Lectr  
Paterson, W. G., BA Oxon., MB ChB Edin (Obstet.) Lectr  
Forbes, C. R., MB ChB (Obstet.) Lectr  
Tindall, V. R., MB ChB, FRCS, Lectr  
Wilson, J. K., MD Lectr.

**†Lecturers (Cln. Obstet. & Gynaecol.)**

- Hamilton, C. J. K., MA MB BChir Camb.,  
FRCS, FRCOG  
Malpas, P. ChM, FRCS, FRCOG  
Herd, S. B., MD, FRCOG  
Welsh, C. H., MB ChB DPH, FRCOG  
†Assistant Lecturers (Cln. Obstet. &  
Gynaecol.)  
Mayeur, Mary H., MD Lond., FRCS, FRCOG  
Baer, S. J., MB BChir BAO Belf., FRCS (Obstet.)

- Pryor-Jones, D., MB ChB, FRCOG (Obstet.)  
de Boer, C. H., MA MB BChir Camb., FRCS  
†Demonstrator  
Woodcock, A. S., MD Leeds

**Ophthalmology**

- McCann, J. A., FRFSGlas †Lectr.-in-Charge

**Orthopaedic Surgery**

- McFarland, B. L., MD MChOrth, FRCS,  
FRCSed Prof., Dir., Orthop. Studies  
†Lecturers & †Assistant Clinical Lecturers  
O'Malley, A. G., MB ChB MChOrth, FRCSed  
Osborne, G. V., MB ChB MChOrth, FRCSed  
†Lecturer  
Ranf, R., MA BM BCh Oxon., MChOrth,  
FRCS, FRCSed  
Honorary Lecturers and †Clinical Lecturers  
Roberts, N. W., MB BS Lond., MChOrth, FRCS  
Thomas, G. E., MB BS Lond., MB ChB  
MChOrth, FRCSed  
Wardle, E. N., MB ChB MChOrth, FRCS  
†Clinical Lecturer  
Dwyer, F. C., MB ChB Cape T., MChOrth,  
FRCS

**†Assistant Clinical Lecturers**

- Almond, H. G. A., MB ChB MChOrth,  
FRCSed  
Moroney, P. B., VD, MB ChB MChOrth, FRCS  
†Special Clinical Lecturers  
Garden, R. S., MB ChB Aberd., MChOrth,  
FRCSed  
Wainwright, D., MB ChB MChOrth, FRCSed

**Oto-rhino-laryngology**

- Tumarkin, I. A., MB ChB, FRCSed  
†Dir. of Studies  
Pracy, R., MB BS Lond., FRCS †Asst. Dir.  
Zelen, H., MB ChB, FRCSed Res. Asst.

**Parasitology and Entomology**

- Kershaw, W. E., VD, MD DSc Manc.,  
DTMSH Lond.  
Walter Myers & Everett Dutton Prof.  
Macdonald, W. W., BSc Glas. (Appl. Biol.) Lectr.

**Pathology**

- Sheehan, H. L., TD, MD DSc Manc., FRCP,  
FRCOG George Holt Prof.  
Cruckshank, A. H., MD Aberd., PhD Sr. Lectr.  
Davis, J. C., MD (Endocrine P.) Sr. Lectr.  
Watt, J., MD Aberd. Lectr.  
Carroll, R., MB BChir *N U I*, DCP Lond.,  
MRCP Lectr.  
Cheetham, H. D., BSc MD (Endocrine P.) Lectr.  
Wade, A. P., PhD Lond., BSc (Endocrine Biochem.) Lectr.  
Kennedy, A., MB ChB Lectr.  
Davies, Sylvia W., MB BS Lond. Lectr.

Tapp, E., MB ChB Lectr  
 Kilburn, P., MB ChB MChOrth, FRCSed Lectr  
 (P of Orthop Conditions) Lectr.  
 Hopkin, L. J., MD Widnes Cancer Res. Asst.  
 Summers, V. K., MD, MRCP  
 (Endocrine P) †Res Asst  
 Williamson, G. S. (Endocrine Biochem) Res Asst  
 †Biochemist†

### Psychological Medicine

Hall, S. B., MD DPM †Dir. of Studies  
 Jarvis, H. F., MD BSc DPH Glax., BSc Ocas, DPM Mawc. †Lectr  
 Leveson, I., MD (Psychiatry) †Lectr  
 Pinkerton, P., MD Edm., DPM Lond (Child Psychiatry) †Lectr  
 Hetherington, R. R., BSc PhD Lond, (Clin. Psychol) †Lectr  
 Simpson, E. Joan, BA Dosh (Psychiatric Social Studies) Lectr.  
 Müller, D. H., MB ChB Leeds Lectr  
 Spelman, M. S., MB ChB Biru Res. Asst.

### Public Health

Semple, A. B., VD, MD DPH Glax. Prof  
 Schwarz, K., MB ChB DPH Lond, MRCP Lectr.  
 Davies, J. B. M., MD Lond., DPH Lond †Lectr

### Radiodiagnosis

Whitaker, P. H., MD DMRE, FFR Lectr-in-Charge  
 Searrow, G. D., MD MRad DMRD †Asst Lectr  
 †Honorary Assistant Lecturers  
 Ross, J. A., MA Camb., DMRE, MRCP  
 Rubin, E. L., MD DMRE, FFR  
 Walker, Norah M., MB ChB Mawc., DMRE  
 †Hon. Res. Asst., †Res. Asst †

### Radiotherapy

Stewart, M. A., MB ChB N Z, DMR Lond, MRCPed †Lectr-in-Charge  
 Fraser, D. M., CBE, MB ChB Glax., DMRE Camb., MRCP Hon. Asst Lectr.  
 Millin, Marjorie S., MD St And Hon. Asst. Lectr

### Surgery

Wells, C., Hon. LL.D. Pany., MB ChB, FRCS Prof.  
 MacPhee, I. W., MD Glax., MSc, FRCS, FRCSed Sr Lectr & First Asst  
 Tinkler, L. F., ChM, FRCS Lectr  
 Brewer, A. C., TD, MB ChB, FRCS  
 †Clin. Lectr. & †Lectr. to Dent Students  
 †Lecturers  
 Brawley, R., ChM, FRCS  
 Kerr, A. S., MB ChB, FRCS (Neurosurg)  
 Forshall, Isabella, MB BS Lond., FRCSed, FRCS (Paediatric S.)  
 Edwards, F. R., MD ChM, FRCS (Thoracic S.)

### †Lecturers and †Clinical Lecturers

Hughes, J. H., MD ChM, FRCS  
 Oldham, J. B., VD, MB ChB, FRCS  
 Ross, J. C., ChM, FRCS  
 Hon. Lecturers  
 Lehan, D., MB BCh BAO N U.I. (Hematol)  
 Osborne, R. P., BSc MB ChB Mawc., FRCS (Plastic S.)

### †Clinical Lecturers

Hawc, P. R., TD, ChM, FRCS  
 Unsworth, S. V., MB ChB, FRCS, FRCSed  
 Hallam, J. W., FDSRCS (Plastic & Maxillo-Facial S. (Dent. S.))

### †Assistant Clinical Lecturer and †Clinical Lecturer to Dental Students

Annis, D., MD ChM, FRCS  
 †Research Assistant and †Assistant Clinical Lecturer  
 Holby, C. R., ChM, FRCS

### †Assistant Clinical Lecturers

Beattie, W. M., MA MChir Camb., FRCS  
 Bennett-Jones, M. J., ChM, FRCS  
 Doyle, R. W., MB ChB, FRCS  
 Evans, F. L., MBE, MC, MA MB BChir Camb., FRCS  
 Hunter, W. R., ChM, FRCS  
 †Assistant Lecturer  
 Rickham, P. P., MS DCII Lond., FRCS (Paediatric S.)

### Tropical Hygiene

Wilson, T., CBE, MD DPH Belf., DTM DTH Middlemans Hunt Prof  
 Edison, J. F. B., BSc Lond., MD Sheffield Sr Lectr.

### Tropical Medicine

Magnath, B. G., MB BS Adel., BSc DPhil MA Ocas, FRCP, FRCPed  
 Alfred Jones & Warrington Yorke Prof.  
 Adams, A. R. D., MD DTM, FRCP †Sr. Lectr.  
 Lenthed, C. S., MB ChB St And, DTM&H Lectr  
 Seaton, D. R., MA MB BChir Camb., MRCP †Asst Clin Lectr.

### Venereology

Prebble, E. E., MD †Lectr-in-Charge

### †CLINICAL TEACHERS IN SPECIAL DEPARTMENTS

#### Anaesthesia

Dovey, Ruth, MB ChB  
 Gibbons, Mrs. Hilda M. G., MB ChB, FFARCS  
 Hargaden, J. J., MB ChB, FFARCS  
 Hargreaves, J. B., FFARCS  
 Hopper, G. R., FFARCS  
 Hughes, G., MD, FFARCS  
 McLoughlin, G., MD DPH, FFARCS  
 Murray, T. P., FFARCS  
 Lewis, I., FFARCS



## ADMINISTRATIVE AND OTHER STAFF

UNIV. ADMINISTRATION. Academic Sec: A. M. Curran, BA Wales, BLitt Oxon. Sr Asst Registrar: P. L. Kemp, BA. Econ. Asst Registrars: K. Horner, BScPhD Durham, J. Berrie, BA Manc.; S. Maddock, MA DipPA (Academic Dept); E. McKee (Admin. Dept). Finance Officer: W. Glynn Williams, FCA. Asst. Finance Officers: J. E. Brockbank, FCA, S. W. Treadgold. Chief Accountant: R. Head Estate & Devel. Officer: P. R. Smith. Asst. Estate & Devel. Officer: G. Mallar. H. C. Highby. Engrin. & Maintenance Officer: E. W. Ratcliffe, MEng. MICE. Supt. of Univ. Bldgs.: A. T. Westrup. Sub-Dean, Fac. of Sci.: L. A. Fairbairn, BSc. Radiation Protection Officer: Sec. to Vice-Chancellor: Beatrice F. Kay.

APPOINTMENTS BOARD. Sec: S. R. Whipple.

DFC, BA Oxon. Asst. Sec.: W. D. Cross, MA Camb.; R. B. Atton, BSc(Econ) Lond.

PHYSICAL EDUCATION. Lectrs: R. E. Dunn, BSc Lond.; Anne Peock.

CHIL. MEDICAL CHILDR. W. P. O'Regan, MB BCh BAO NUI.

STUDENT WELFARE OFFICER. Mrs. Vera Grant. WARDENS OF HALLS OF RESIDING (Men): Prof. D. R. Beardsmore Davies, JP, MA Camb., LL.B. (Durham Hall); D. A. Conitt, MSc Lond. (Rathbone Hall) (Women): Emma A. H. Clifford, MA R'g'd, PhD (University Hall); Elizabeth M. Leese, JP, BA (Dale Hall); Joyce Bazeley, MA Leeds (Rankin Hall).

DUPPLY LIBRARIAN: T. S. Broadhurst, MA Oxon.

## ASSOCIATED OR AFFILIATED INSTITUTIONS

CITY OF LIVERPOOL COLLEGE OF TECHNOLOGY, Byron St., Liverpool, 3 (tel.: North 0558). Principals—S. A. J. Parsons, BSc(Econ) Lond., MIMechE. Recog. teachers in pharmacology: T. L. Bowyer, FRIC, N. H. Booth, MSc Manc.; W. E. Court, MPharm (Nott), FLS; R. Whitaker, MSc Manc.; D. B. Cowell, BPharm PhD Lond.

ST. AIDAN'S COLLEGE, Howbeck Rd., Bickenhead, Cheshire (tel.: Cloughton 1247) (C of E.) Principal—Rev. M. M. Hennell, MA Oxon.

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool, 3 (telegrams and cables: Malara, Liverpool; tel.: Royal 7611). Wards for trop. dis. at Liverpool Royal Inf. and Sefton Gen. Hosp. For trng. in res. and organization of prophylactic measures. 2 (3-month) courses for DT&H, Sept. and Jan. each yr.; 4 courses for cert. in trop. nursing for postgrad. nurses, Jan., April, July, Oct. Published *Annals*. For staff, see above under Trop. Med., Trop. Hygiene, Parasitol. & Entomol.

## GENERAL INFORMATION

Univ. Coll., Liverpool, founded by royal charter 1881, was admitted into the Victoria Univ. Manchester, in 1882. In 1903 the Univ. of Liverpool was establd. by royal charter and the coll. was absorbed in it. Expansion was rapid, both in bldgs. and in nos. of students. To the older degrees in arts, sci., med. and law, degrees in archit., dent. surg. and engin. were soon added. A sch. of vet. med. was establd. in 1904, affiliated to the Royal Coll. of Vet. Surgeons, and in 1914 degrees in vet. sci. were establd. Devel. was halted by the outbreak of the first world war, towards the prosecution of which the univ. made notable contributions in the fields of sci. and med. Between 1918 and 1939 the nos. of students and staff increased steadily, and despite financial stringency, devel. included the bldg. of a geol. lab., an animal hosp., the extension to the students' union, a new lib. and a hall of residence for men students. From 1945 to the present day the univ. has been engaged in an unprecedented expansion and, in addn. to other bldgs., new chem. labs., a new med. sch., phys. bldg., civil engin. and bldg. sci. lab., a hall of residence (1

for men, 1 for women) and 3 annexes, maths. and oceanography bldg., and vet. sci. bldg. have been erected.

Liverpool (pop. 747,490) is one of the greatest world trading centres and principal U.K. port for Atlantic trade.

CONSTITUTION. The supreme governing body of the univ. is the court. It incl. among its members reps. of educn., profess. and municipal interests, in addn. to members of council and senate, and reps. of convocation and non-professional teaching staff. It meets annually to receive a report on the work on the univ. and accounts.

The council is the exec. body of the univ. and is composed of (i) ex-officio members, namely the chancellor, pro-chancellor elected by the court, vice-chancellor, treasurer, dep. treasurer and pro-vice-chancellors; (ii) lay members representing court and local authorities; (iii) academic members apptd. by senate, bds. of facs. and non-professional staff; (iv) reps. of convocation. The duties of the council include responsibility for

management and admin. of property and finances of the univ., drawing of statutes, ordinances and regis., and the appt. of the vice-chancellor and all members of teaching and admin. staff.

The senate, which incl. among its members the vice-chancellor, pro-vice-chancellors, all profs., deans of facs., the librarian and at least 6 members of the non-professional teaching staff, is responsible for recruiting and co-ordinating the work of the facs., submitting recommendations for filling of chairs and other teaching posts, making regis. governing courses of study and exams., and directing teaching and discipline of students and encouraging res.

Each of the facs. of the univ. is administered by a bd. which is responsible to the senate for teaching and courses of study within the fac concerned, for submitting recommendations to the senate for the appt. of academic staff, and for nomination of examiners. Bds. of facs. may constitute bds. of studies as necessary.

INCOME. (yr. ended July 31, 1961). Total income, £2,622,300 (parliamentary grants, 74.3 per cent.; local authorities, 2 per cent.; investment interest, 5.9 per cent.; students' fees, 9.8 per cent.; other sources, 2.0 per cent.)

FACULTIES AND DEANS. *Arts*, Prof. K. Muir (Engl. lit.), *agron.*, Prof. J. M. Meek (electr. power engin.), *anim.*, Prof. D. R. Searborne Davies; *med.*, J. M. Leggate; *sci.*, Prof. K. F. Bowden (oceanog.) (full-time students). *Dr.*, V. J. Odehshaw; *vet. sci.*, Prof. J. G. Wright (vet. surg.).

UNIVERSITY PRECINCT. The univ. occupies an area of some 80 acres lying between Pembroke Place and Myrtle St., and the admin. centre is in the Victoria Bldg., Ironsaw Hall, within about a mile of the city centre. A long-term bldg. programme is being undertaken, and bldgs. which have been completed and occupied incl. nuclear phys., civic design, org., *morog.* & phys. chess, mod. sch., univ. press, dent. sch. exin., civil engin., phys., maths & oceanog., and vet. anat. & pathol. In course of constrn. are arts lib. and lecture theatre block, students' union exin. and electr. engin.

LIBRARY. About 470,000 vols. Most important sp. collections: Thomas Chatterbook (1500), rich in early geog., astron., maths and Bertrth local hist.; William Noble (1912), containing most of the finely printed books publd. in England since about 1880; R. A. Scott Macfie (1935), entirely devoted to the gypsies; Knowles (1953), consisting of about 3000 Engl. pamphlets, 17th-19th cent., and 1300 books printed before 1800. The lib. MS. collections incl. over 40 mediev. books and it possesses 220 incunabula. In addn. to the Harold Cohen lib., opened in 1936, there are numerous external libes administered by the univ. librarian.

LABORATORIES, ETC. Equipment for advanced study and res. in all depts. There is a marine biol. stn. (see Staff, sec. p. 1056) at Port Erin,

Isle of Man, univ. bot. gdn. at New, Wirral, a vet. field stn. at Neston, Wirral, and a tidal inst. and observatory (for Staff, sec. p. 1056) (The Observatory, Bidston, Birkenhead, Cheshire, tel. Cloughton 5455).

HOSPITALS associated for purpose of clin. or practical work required for degrees and dipls. in fac. of med.: *Liv. Royal Inf.*, David Lewis Northern H., R. Southern H., *Lav.* Stanley H., *R. Lav.* Children's H., *Women's H.*, *Lav.* Maternity H., *Lav.* Ear, Nose and Throat Inf., *St. Paul's Eye* H., *Lav. Dent.* H., *Aintree H.*, *Alder Hey Children's H.*, *Broadgreen H.*, *Newsham Gen. H.*, *Birkenhead Gen. H.*, *Clatterbridge Gen. H.*, *Deva H.*, *Denbigh (Mental) H.*, *Robert Jones & Agnes Hunt Orthoped. (Oswestry) H.*, *Lav. Psychiatric Clinic*, *Fazakerley H.*, *Mill Rd. Maternity H.*, *Sefton Gen. H.*, *Walton H.*, *Warrick H.*, *Rainhill County Mental H.*, *Whiston County H.*, *Semen's Disp.*, *Radium Inst.*, *Lav. Chest H.*

INSTITUTE OF EDUCATION (see also "Teaching Staff", above). Promotes the educ. and trng. of teachers, co-ordinates local trng. facilities, conducts provincial exms., and arranges further study courses for practising teachers (incl. courses for dipl. in educ. and cert. in the teaching of handicapped children). *Continental members*: univ. depts. of educ.; *Alsager Trng. Coll.*, Cheshire; *F. L. Calder Trng. Coll. of Don Sci.*, Cheshire; *County Trng. Coll.*, *Crews*; *Cheshire Coll.*, *Edge Hill Trng. Coll.*; *Liverpool Coll. of Art.*, *I. M. Marsh Coll. of Phys. Educn.*, *C. F. Mott Trng. Coll.*, *Mount Pleasant Trng. Coll.*, *S. Katharine's Trng. Coll.*; *Christ's Coll.*, *Kirkby Trng. Coll.*

ADMISSION. See Appendix III.

FIRST DEGREES. All degrees may be conferred with hon. BA is conferred in gen. studies, in sp. studies, in soc. studies, or in combined spec. studies. BA gen. studies and soc. studies, 3 yrs.; BA sp. studies, 3 or 4 yrs., in classics, oriental studies, French, Italian, Hispanic studies, German, Celtic studies, Russian, Engl. lang. and lit., hist., geog., econ., soc. sci., philos., pol. theory & inst., psychol. BA (combined sp. studies), 4 yrs., in Gk & Egyptian, Gk & Hebrew, Gk & philos., French & German, French & Hispanic studies, French & Italian, French & Russian, German & Russian, Engl. lang. and lit. & Italian, Engl. lang. and lit. & philos., econ. & geog., econ. & maths, econ. & philos., geog. & maths., maths. & philos., Engl. lang. & philos. For BA gen., hon. awarded on result of final exam. For BA sp. studies and BA combined sp. studies, hon. obtd. on result of pt. I & pt. II exam.; candidates not reaching this level may be awarded pass degree.

BCom, 3 yrs. (alternative curricula: (a) for ordinary student in comm., (b) for those who wish to enter the accty. profession) BArch, 3 yrs., hon. obtd. on result of 4th and final exams. BSc, 3 yrs., 4th yr. for hon. in gen. sci. or in 1 of the following: maths, mathl. phys., mathl. stats.,

phys., chem., zool., bot., geol., oceanogr., geogr., physical, biochem., bacteriol., anat., metall., pharmacol., genetics, psychol. Unsuccessful candidates for honours may be awarded ordinary degree MB ChB, 6 yrs., honours obtained on result of final exam BDS, 5 yrs. 1 term, honours obtained on results in 2nd, 3rd, 4th and final exams. BVSc, 5 yrs., honours obtained on result of the 2nd, 3rd and final exams LLB, 3 yrs., honours students offer 2 additional sp. subjects over 2nd and 3rd yrs., candidates not reaching honours level at final exam may be awarded pass degree BEng (mech., marine, elect. power, electronic, civil, metall., bldg. sci.), 4 yrs.; honours students offer additional subjects in final yr.; candidates not reaching honours level at final exam may be awarded pass degree.

**HONOUR DOCTORS** PhD—grads of this or other approved univ., not less than a yrs.' full-time sci., thesis and oral exam., non-grads (under certain conditions), 3 yrs. LittD—on public contributions to learning, after report, upon MAs of the univ. after 7 yrs. from date of admission to degree of BA MA—grads of this or other approved univ., approved course of higher study or res. for at least 2 yrs.; non-grads (under certain conditions), 3 yrs.; thesis, oral exam. and written exam. if required MCD—study for at least 1 further session after BAArch, otherwise a 2-yr. course, studio work and exam MAArch—honours grade in archt. of this or an approved univ., 1 yr.'s higher study or res.; grads in archt. without honours, 2 yrs.' higher study or res., suitably qualified non-grads. may be admitted to course 3 yrs. after gaining a professional qualif., thesis, oral & written exam. (if required) MCom—2 yrs.' higher study or res. after BCom or BComSc of the univ., thesis with or without exam., other grads eligible under certain conditions MEd—grads of this or approved univ. holding dipl. in educ. of this univ. (in or subsequent to 1957) or its equivalent, approved course of study for at least 2 yrs.; non-grads, under certain conditions 3 yrs., thesis, oral and written exam. LLd—on public contributions to learning, after report, upon grads in laws of this univ. or not less than 7 yrs.' standing LLM—at least 2 yrs.' systematic work after LLB honours (not lower than class 2, div. 1, or equivalent), and presentation of thesis. DSc—on public contributions to sci., after report, candidates to be grads of the univ. or not less than 6 yrs.' standing MSc—thesis and, if required, exam.; honours BSc of the univ., 3 complete terms' higher study or res., other grads of this or approved univ., a prescribed preparatory course and passing an exam., subsequently, 3 terms' higher study or res., other persons may, in sp. circumstances, be accepted under certain conditions Course in numerical analysis and electronic computation, 1 session, for honours grads. in maths. or exceptionally phys. engin. or other subj.; course in acoustics, 3 terms, for honours grads. in phys., chem., elect. or mech. engin. or equivalent. MD—(a) 2 yrs. after MB ChB,

thesis with, if candidate desires, copies of public original papers upon med. sci.; oral exam. on subject of thesis, (b) 5 yrs. after MB ChB, exam. in gen. med. and in a selected branch of med. ChM—thesis and exam., open to holders of FRCS who are grads in med. of this or other approved univ. and to grads, other than med., of this or approved univ., who hold a med. qualif. registrable in Gt. Britain MChOrth—thesis and exam., after course of not less than 12 mos., open to grads in med. of this or other approved univ. and to grads, other than med., of this or approved univ., who are FRCS (Eng., Ed., I., Aust. or Can.) or Fellows of the American Coll. of Surgeons or Fellows and surgeons of the Royal Fac. at Physicians & Surgeons, Glasgow MChOrth—open to grads in med. of this or other approved univ., to other grads of this or approved univ., who hold a med. qualif. registrable in Gt. Britain, or in sp. circumstances and under certain conditions to other persons holding a registrable med. qualif., by thesis for holders of fellowship of 1 of Royal Colls. of Surgeons, or by exam. for holders of DLO, of RCSEng., 5 yrs. after registrable qualif. and 2 yrs.' work and attendance at approved courses MRad (in either radio-diag. or radio-therapy)—open to holders of the dipl. in radiol. of the univ. of 2 yrs.' standing, thesis required MDS—2 yrs.' standing from taking BDS, 3 yrs.' standing (with a 3e's higher study or res.) from equivalent to BDS, all candidates follow 6 mos.' course, present thesis with, if desired, copies of public work relative to dent. sci. and take sp. exam. DVSc—on grads in vet. sci. of the univ. of 8 yrs.' standing after report on public contributions MVS—2 sessions of higher study after BVSc (or equivalent), by thesis or report and by exam., if required. DEng—on MEEngs or PhDs (fac. of engin.) of 5 yrs.' standing, after report on public contributions. MEEng—higher study or res. following submission of thesis and, if required, an exam.; for grads with BEng honours, 1 yr. full-time study, or a yrs.' pt-time study, together with evidence of satisfactory pursuit of sci. or practice of engin.; for grads with BEng without honours, 3 yrs.' pt-time study; for other grads, 2 yrs.' study; for approved non-grads, 3 yrs.' study.

Doctors' and masters' degrees may be conferred as **HONORARY DEGREES**.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS** Archtcol., open to grads. of this or other approved univ., 1 or 2 yrs., thesis and exam.; civic design, 1 or 2 yrs.' prescribed study, thesis and exam., only suitably qualified candidates admitted; educn., open to candidates with approved initial qualif. in educn. and appropriate professional experience, 1 yr. full-time or 5 terms pt-time and 1 term full-time, thesis and exam.; international law, open to grads, or otherwise suitably qualified candidates, 1 yr., thesis and exam.; pub. admin., 3 yrs.; soc. admin., not less than 12 mos., candidates may specialise in child care or in mental health; study of records



and admin. of archives, 1 yr. for full-time students, 2 yrs for others; indus. admin. suitably qualified candidates, 2 yrs or 1 yr., as determined by fee; appl. psychol., 1 yr.; engin., 2 yrs' practice of engin. after final exam for cert. (incl. 1 yr's approved study or dissertation)—candidates who passed in 8 papers in final cert. exam., 2 yrs' practice; bldg. sci., open to grads or holders of approved professional qualif., not less than 3 terms, vet. hygiene (DVH), regis. under revision Postgrad. med. dipl. DPH, 1 yr.; DMR(D) or (T), 2 yrs.; DTM&H, 3 mos.

**CERTIFICATES** Archaeol., 1 yr., sep. arts subs., not less than 2 yrs.; soc. sci., 1 or 2 yrs.; educn., 1 yr. (postgrad.); engin., 4 yrs.; teaching of handicapped children, open to qualified teachers with at least 3 yrs' experience of teaching of which not less than 2 yrs. must have been spent in schs. other than sp. schs., 1 yr.

**POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION.** Anaesthetis., 1 yr.; psychol. med., 6 terms pt.-time (designed for those studying for a dipl. in psychol. med.)

**RESEARCH FACILITIES** are available in most depts. A research report is published annually.

**STUDY LEAVE.** Applicants are considered on their individual merits.

**FEES.** 1 Tuition per session. BA, £35 (4th yr. sp. studies, £20); MA, £15; BArch, £75 (4th yr., £50); MCD, £50; BCom, £55; MCom, £15; MArch, £18; MEd, £15; BSc, £70 (hons. in math. phys. and maths., £50); MSc, £30 (math. phys. and maths., £25); MB ChB, £75 (6th yr., £45); ChM for the course, £72; MChOrth for the course, £220; MChOtol, £60; BDS 1st, 2nd, 3rd yrs., £85, 4th yr., £75, 5th yr., £60, 6th yr., £15; MDS course in pathol. & bacteriol., £18; LLB, £50; LL.M., £11; BEng, £70; MEng, £30; BVSc, £60 (and 1 yr., £65); MVSc, £20 (1st yr., £40 if res. conducted within univ.); PhD, £40. **Dipls.**—civic des., £43; educn., £18 (2-yr. course) or £55 (1-yr. course); archaeol., pub. admin., each £25; study of records & admin. of archives, for the course, £50; indus. admin., soc. admin., appl. psychol., each £40; DMR (D or T), £76; DPH, £72; DTM&H, £63; interest law, £25; bldg. sci., £45. **Certs.**—educn., £55; soc. sci., £35 or £40; archaeol., £25; teaching of handicapped children, £55; engin., £70. **H. Exemptions** (for the course): BA, £9, 100 or £10, 100; MA, £6; LittD, £12; BArch, £15; MArch, £6; MEd, £6; MCD, £6; BCom, £9; 100; MCom, £6; BSc, £11 to £15; MSc, £6 or £10; DSc (on appln.), £12; MB ChB, £20; 100; MD, £12; ChM, £7 to £12; MChOrth, MChOtol, MRad, each £12; BDS, £32; 100; MDS, £12; LLB, £15; LL.M., £6; LLD (on appln.), £12; BEng, £12; MEng (on appln.), £6; DEng (on appln.), £12; BVSc, £31; MVSc, £6; DVSc, £12; PhD (on appln.), £12. **Dipls.**—£5 to £12 according to dipl. **Certs.**—£5 or £12 according to cert. **III Graduation fees.** £7 to £12

according to degree. **IV. Research fees:** £20 to £25 per session. **V. Apparatus fee:** £20 (degrees of MSc, MDS, MEng, MVSc, PhD, and res.). **VI.** Subscription to guild of undergrads., £8 per session, to be paid by students attending full regular courses.

**ACADEMIC YEAR.** Oct. to July 3 terms of 10 wks each.

**ADULT EDUCATION** (see also 'Teaching Staff', above). A univ. bd. of extra-mural studies, with a no. of standing citize., is responsible for extra-mural work which, in the city of Liverpool, is centred in the Royal Instn. A variety of courses is organized throughout the extra-mural area, incl. postgrad. courses, study courses, and extension courses for the gen. public. Tutorial and sess. classes are undertaken in collaboration with the WEA. Lectures for schs. are arranged. The dept. of extra-mural studies is responsible for the admin. of civilian aid in educn. of I.L.M. forces.

**VACATION COURSES.** Residential and non-residential courses, mostly postgrad., are arranged by the extra-mural dept. during the Easter and occasionally during the long vacation. An internat. summer sch. is arranged annually at Chester for extension, WEA, and overseas students.

**POSTGRADUATE AWARDS** open to grads. of other univs.; see p. 910.

**APPOINTMENTS BOARD.** (For acc. and met. sees, see p. 1057) The function of the bd. is to advise students and grads. concerning careers and employment, and to assist them in obtaining posts.

**ASSOCIATION OF GRADUATES.** Besides convocation, there is a Liverpool Univ. Soc. with mainly social functions. Chairmen: D. Pundon, BEng, 2 Ashway, Gayton, Helswall, Wirral, Cheshire.

**RESIDENCE** (For wardens, see 'Admin. and Other Staff', above). For women: University Hall, Holly Rd., Fairfield, Liverpool, 7 (tel. Anfield 2458), 150 students; Dale Hall, Elmwood Rd., Mossley Hill, Liverpool, 18 (tel. Allerton 2204), 250 students; Rankin Hall, 44 Ullet Rd., Liverpool, 17 (tel. Sefton Park 1723), 150 students. For men: Derby Hall, North Mossley Hill Rd., Liverpool, 18 (tel. Allerton 2331), 220 students; Rathbone Hall, North Mossley Hill Rd., Liverpool, 18 (tel. Allerton 1000), 260 students. Fees for all halls, £148 to £160 per session.

**OFFICERS' TRAINING CORPS.** H.Q. and orderly room, 36 Bedford St. North, Liverpool, 7. Try wing and officers' mess, The Drill Hall, Upper Wirwall St., Liverpool, 8. Hon. Col. Brigadier R. N. M. Jones, CBE, C.O. Lt.-Col. G. E. Beard, TD and Jc, Major A. J. MacKenzie. Admin. Officer in charge W.R.A.C. Coy. Capt. P. R. Bryans, W.R.A.C.

**UNIVERSITY AIR SQUADRON.** H.Q. Royal Air Force, Everton Rd., Liverpool, 6. C.O. Sqn. Leader N. G. Jones, DFC, BSc. Adjutant:

Flight Lt. C. J. Wilmot Chief Flying Instr.;  
Flight Lt. K. J. Miles

**STUDENT HEALTH SERVICE.** A student health service is provided by the Univ., under the control of a chief med. officer, assisted by other med. officers (one of whom is a woman) and a student welfare officer.

**GUILD OF UNDERGRADUATES.** Students' union, 2 Bedford St. North, Liverpool, 7.

**PUBLICATIONS.** *Calendar* (Nov.), 10s. 6d., post free; *Diary* (Oct.), free to members of Univ.; *General Prospectus*, *Prospectuses of Facs. and Schools and leaflets on degree courses* (Sept.), 3d. to 2s. 6d.; *Research Report*, 10s. 6d., post free; *Recorder*, 2s. 6d. p.a. (this is a Univ. gazette published

at beginning of each term); *Students' Handbook* (Aug.), free for freshers; students' mag., *The Sphum*, 1s. (3 nos. per session); *Guild Gazette*, 3d. (3-weekly intervals); med. students' mag., *Sphincter*, 1s. (3 nos. per session).

**UNIVERSITY PRESS**, 123 Grove St., Liverpool, 7 (telegrams: Commodore, Liverpool, tel. 7043640). Sec.: J. G. O'Kane, B.Com. Diploid. Dark. Sales manager: C. Taylor. The press publishes works of scholarship, Univ. and sch. text-books and books of gen. interest. Also the following quarterly periodicals: *Annals of Tropical Medicine & Parasitology*, *Journal of Comparative Pathology & Therapeutics*, *Town Planning Review*, *Bulletin of Hospital Studies*, *Banner History*.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Nuffield Foundation, £70,000 towards extension of sch. of trop. med.

**MAJOR BUILDING DEVELOPMENTS.** *Blidge completed*, vet. bldg., maths. and ceasing bldg.; annex to men's hall of residence (accomm. 100) *Approaching completion*, annex to men's hall of residence (accomm. 100).

**RETIREMENTS.** Prof. T. H. Devay (trop. hyg.), A. T. Doodson (hon. lectr., analysis of observations), H. V. Hughes (reader, vet. anat.), K. Povey (librarian); R. Lewin (finance officer), R. W. Roberts (reader, phys.).

**RESIGNATIONS.** F. M. Algate (sec. inst. of educn.), apptd. asst. registry, Cimb., Dr. D. C. Belinfante (apptd. lectr., Univ. Coll., Lond.); Dr. M. Brookes (asst.), apptd. sr. lectr., Guy's Hosp.; Dr. T. I. Canning (electr. power engin.), apptd. lectr., electr. engin., Univ. Coll., Cork; J. F. Cogan (ophthalmol.), apptd. to hosp. post, Dr. A. B. Goetze (physiol.), apptd. to hosp. post, Dr. F. W. Land (educn.), apptd. prof. of educn., Hull; Dr. J. Lynch (mod. hist.), apptd. lectr., Hispanic and Latin American hist., Univ. Coll., Lond.; P. J. N. Piment (vet. med.), J. B. Scott (obstet. & gynaeol.), apptd. prof. of obstet. & gynaeol., Leeds; Dr. K. R. Simmonds (law), apptd. sr. lectr., Belf.; Dr. A. H. Sykes (vet. phys.), to appt. at Wye Coll., Lond.; Dr. R. T. Taylor (phys.), to appt. with British Council; Dr. D. V. Verney (pol. theory and instas), apptd. prof. of pol. sci., York Univ.; Tox., Dr. W. B. Whalley (org. chem.), apptd. prof. of pharm., Sch. of Pharm., Lond.; Dr. A. Wright (vet. histol.), to appt. at Sydney.

**DEATHS.** Sir Westcott Stille Abell (Alexander Elder prof. of naval archit., 1909-14), His Honour Judge Raleigh Butt (prof. of comm. law, 1919-43), hon. prof. of common law, 1942-45; Emer. Prof. P. G. H. Boswell (George Herdman prof. of geol., 1917-30), Emer. Prof. R. M.

Gordon (prof. of trop. dis. of Africa, 1930-35), Dutton prof. of entomol., 1939-41, Dutton and Walter Myers prof. of entomol. & parasitol., 1947-58), Emer. Prof. W. Mason (John William Hughes prof. of engin. (strength of materials), 1930-46, prof. of appl. mech., 1945-197); Sir Charles Webster (Andrew Geddes and John Rankin prof. of mod. hist., 1914-43).

**HONORARY DEGREES.** LL.D.—Lord Birkett of Ulverston, chairman of the court, Lond.; Sir Geoffrey Crowther, lately chairman, Central Advisory Council for Educn. (Eng.); Prof. Sir William Hallford, prof. of town planning, Lond. D.Sc.—Prof. Sir William Hodge, master, Pembroke Coll., Camb.; M. J. Lighthill, dir., B.A. E. Fairborough; Dr. G. E. R. Deacon, dir., Nat. Inst. of Oceanog. D.V.Sc.—Sir John Ratcliffe, chief vet. officer, min. of agric., fisheries & food; Dr. W. R. Woodruffe, dir., Animal Health Trust. LL.M.—J. W. T. Holland, former pres., Liverpool Law Soc. MA—G. A. Chappell, pres., N.U.T.; H. B. Green, amateur botanist; H. Humphreys Jones, former principal, Liverpool Sch. of Pharm.; W. A. Lee, librarian, Liverpool Med. Instn.

## Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3318	298
Women	1056	72
Total	4374	370

Distribution by Faculties: Arts, 1607; engin., 530; law, 115; med. (incl. dent.), 870; sci., 1446; vet. sci., 176. Total: 4744.

*Included in the figures above are:—*

Postgraduate students, 666.

New admissions, 1187.

Students from other countries, 354. (Countries

**U.K.—ENGLAND**

from which largest numbers came: India, 59; Nigeria, 32; Iraq, 24)

DEGREES AWARDED (1960-61). *Arts*: BCom hons., 11; BArch, 13; BAArch hons., 12; BA, 45; BA hons., 191; MCD, 9; MA, 15; MArch, 1; MEd, 1. *Engin.*: BEng, 51; BEng hons., 63; MEng, 4. *Law*: LLB, 11; LLB hons., 15; *Med*: MB ChB, 81; MB ChB hons., 2; ChM, 1; MChOrth, 9; MD, 13; BDS, 6; MDS, 2. *Sci.*: BSc, 188; BSc hons., 167;

MSc, 10; DSc, 2. *Vet. sci.*: BVSc, 26; MVS, 3; DVSc, 2. PhD (all facts) 51

DIPLOMAS AWARDED (1960-61). *Educn.*, 31; civic des., 5; pub. admin., 8; archive admin., 5; indust. sociol., 3; soc. admin., 15; appl. psychol., 2; DPH, 10; DTM&F, 54; LDS, 17; bldg. sci., 3.

CERTIFICATES AWARDED (1960-61). Soc. sci., 13; educn., 103

# UNIVERSITY OF LONDON\*

Founded 1836

Postal Address: Senate House, London, W.C.1, England

Cables and Telegrams: University, London

Telephone: Museum 8000

VISITOR—H.M. THE QUEEN IN COUNCIL.

CHANCELLOR—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

VICE-CHANCELLOR—P. S. NOBLE, MA *Aberd & Camb*, Hon. LL.D. *Aberd.*

CHAIRMAN OF CONVOCATION—C. F. HARRIS, MD, FRCP

CHAIRMAN OF THE COURT—Professor Sir DAVID HUGHES PARRY, QC, MA *Camb.*, Hon. DCL *McG.*, Hon. LL.D. *Birm.*, *Br Col.*, *Camb.*, *Exe.*, *Hull*, *New Br.*, *Wales & W. Ont.*

PRINCIPAL—Sir DOUGLAS LOGAN, MA DPhil *Oxon*, Hon. DCL *W. Ont.*, Hon. LL.D. *Melb.*, *Madr.*, *Br Col.* & *H.K.*

CLERK OF THE COURT—J. R. STEWART, MA *Durb.*

SECRETARY TO THE SENATE—J. HOOD PHILLIPS, MA *Oxon.*

ACADEMIC REGISTRAR—J. HENDERSON, BSc MA *Edin.*, PhD

EXTERNAL REGISTRAR—L. E. BALL, OBE, BSc

DIRECTOR OF DEPARTMENT OF EXTRA-MURAL STUDIES—W. BURMEISTER, MA *Oxon.*

SECRETARY TO THE UNIVERSITY ENTRANCE AND SCHOOL EXAMINATIONS COUNCIL—G. BRUCE, MA *Camb.*

GOLDSMITHS' LIBRARIAN—J. H. P. PAFORD, MA, FSA, FLA

ACCOUNTANT—A. B. WATERFIELD, BA, FCA

SUPERINTENDENT OF EXAMINATIONS—G. S. CONGREVE, BA

## ADMINISTRATIVE AND OTHER STAFF

Sec. to Apprs. Bd.: E. H. K. DIBDEN, MA *Camb.*, BSc. Sec. to Athlone Press: W. D. HOGARTH, OBE, MA *Oxon*. Maintenance Officer: F. C. RICHARDSON, CBE, BCom. Dep. Clerk of Court: R. G. HUTCHINGS, BA. Dep. Academic Registrar & Sec. to Collegiate Council: G. CLARK, BSc MA *Liv.* Dep. Academic Registrar: D. H. WEIR, OBE, MA *Glas.* Dep. External Registrar: R. L. STEAR, OBE, TD, BSc. Dep. Dir. (Extension), Dept. of Extra-mural Studies: C. P. THOMAS, BA *Wales*. Dep. Dir. (Tutorial Classes): F. G. BROOK, BSc(Econ) PhD. Dep. Sec. to Univ. Entrance & Sch. Exams. Council: A. B. SAINSBURY, MA *Oxon*. Sec.

to Univ. Entrance Requirements Dept.: W. J. DRY, MA *Durb.*. Dep. Librarian: Joan M. HARRIES, BA, FLA. Dep. Supt. of Exams.: J. RATHBORN, BA. Adviser to Overseas Students: Mary Trevelyan, OBE. Warden of Univ. Union: G. W. PENN, MA *Camb.*. Lodgings Officer: Mrs. Evelyn M. TUBERT, BA. Wardens of Halls of Residence: D. M. LANG, PhD *Camb.*, DLit (Connaught Hall); Doreen M. TULLOCH, MA PhD (Canterbury Hall); Mrs. Elizabeth OSMAN, BA *Oxon* (Nufford House); A. TATTERSALL, MA *Camb.* (International Hall); C. R. DUCKWORTH, PhD (Commonwealth Hall).

## SCHOOLS AND INSTITUTIONS

Univ. teaching is carried on in: (1) univ. insts. of a specialized kind, mostly for postgrad. work; (2) 'schools of the univ.'; (3) other insts. at which there are 'recognized teachers of the univ.'

For the convenience of readers these have been

divided in the following reference list into university insts.; non-med. schools, undergrad. med. and dent. schools; postgrad. med. schools; insts. with recognized teachers.

For a more precise differentiation see the University of London Calendar.

\* Member of the Association of Universities of the British Commonwealth

*University Institutes*

- Courtauld Institute of Art (p. 1079)  
 Institute of Advanced Legal Studies (p. 1080).  
 Institute of Archaeology (p. 1081).  
 Institute of Classical Studies (p. 1083).  
 Institute of Commonwealth Studies (p. 1084).  
 Institute of Education (p. 1085).  
 Institute of Germanic Languages and Literatures (p. 1088).  
 Institute of Historical Research (p. 1089).  
 School of Slavonic and East European Studies (p. 1090).  
 Warburg Institute (p. 1091).

*Non-Medical Schools*

- Bedford College (for women) (p. 1093).  
 Birkbeck College (p. 1096).  
 Imperial College of Science and Technology (p. 1100).  
 King's College (p. 1108).  
 London School of Economics and Political Science (p. 1113).  
 Queen Elizabeth College (p. 1118).  
 Queen Mary College (p. 1120).  
 Royal Holloway College (for women) (p. 1124).  
 Royal Veterinary College (p. 1126).  
 School of Oriental and African Studies (p. 1128).  
 School of Pharmacy (p. 1134).  
 University College (p. 1136).  
 Westfield College (for women) (p. 1146).  
 Wye College (p. 1148).

*Theological Schools (p. 1151)*

- \*King's College - Theol. Dept.
- \*New College
- \*Richmond College

*Undergraduate Medical and Dental Schools*

- Charing Cross Hospital Medical School (p. 1152).  
 Guy's Hospital Medical School (p. 1154).  
 King's College Hospital Medical School (p. 1157).  
 London Hospital Medical College (p. 1160).  
 Middlesex Hospital Medical School (p. 1163).  
 Royal Dental Hospital of London, School of Dental Surgery (p. 1165).  
 Royal Free Hospital School of Medicine (p. 1167).  
 St. Bartholomew's Hospital Medical College (p. 1170).  
 St. George's Hospital Medical School (p. 1172).  
 St. Mary's Hospital Medical School (p. 1174).  
 St. Thomas's Hospital Medical School (p. 1177).

- University College Hospital Medical School (p. 1179).  
 Westminster Medical School (p. 1183).

*Postgraduate Medical Schools*

- British Postgraduate Medical Federation (p. 1185). —  
 Postgraduate Medical School of London (p. 1190).  
 Institute of Basic Medical Sciences (p. 1191).  
 Institute of Cancer Research (p. 1191).  
 Institute of Cardiology (p. 1191).  
 Institute of Child Health (p. 1192).  
 Institute of Dental Surgery (p. 1192).  
 Institute of Dermatology (p. 1192).  
 Institute of Diseases of the Chest (p. 1193).  
 Institute of Laryngology and Otology (p. 1193).  
 Institute of Neurology (p. 1193).  
 Institute of Obstetrics and Gynaecology (p. 1194).  
 Institute of Ophthalmology (p. 1194).  
 Institute of Orthopaedics (p. 1194).  
 Institute of Psychiatry (p. 1195).  
 Institute of Urology (p. 1195).

- London School of Hygiene and Tropical Medicine (p. 1195).

- \*Latter Institute of Preventive Medicine (p. 1198).

*\*Institutions with Recognized Teachers*

- University of London - Goldsmiths' College (p. 1200).  
 Battersea College of Technology (p. 1200).  
 Chelsea College of Science and Technology (p. 1200).  
 College of Estate Management (p. 1200).  
 East Malling Research Station (p. 1200).  
 Jews' College (p. 1200).  
 Mary Grey College (p. 1200).  
 National Institute for Medical Research (p. 1200).  
 Northampton College of Advanced Technology (p. 1200).  
 Northern Polytechnic (p. 1200).  
 Rothamsted Experimental Station (p. 1201).  
 Royal Academy of Music (p. 1201).  
 Royal College of Music (p. 1201).  
 Sir John Cass College (p. 1201).  
 Trinity College of Music (p. 1201).  
 West Ham College of Technology (p. 1201).  
 Woolwich Polytechnic (p. 1201).

**GENERAL INFORMATION**

*The universities wish it to be clearly understood that they can accept no responsibility for any information concerning exams or procedure except that contained in the latest edition of their own official regis., which can always be obtained on application at the univ. offices, Senate House, London, W.C.2.*

The univ. was constituted by royal charter in 1836 as a body empowered to grant degrees to students of approved institutions. After exam. and, until 1900, its work was confined to the examination of students. The system whereby entrance to its exams. was restricted to students of certain

\* Not in receipt of U.G.C. grants

affiliated colls. was abolished, except for exams in med., in 1858. In 1878 its degrees were thrown open to women, London being the first of the univs. of Gr. Britain to adopt this policy.

In 1900 the univ. was reconstituted so as to strengthen the ties between it and the instns. engaged in higher educn. in the London area. The senate was empowered to admit as schools of the univ. instns. situated within the admin. county of London and not carried on for the private gain or profit of the owners, which provide educn. of univ. standard, and was required to obtain reports at prescribed intervals on the efficiency of such schs. A sp. form of recognition could be given to an instn. within the same area founded for res. or the cultivation of any sp. branch of sci. or learning, and the Lister Inst. of Prev. Med. has been admitted in this category.

The two original colls. of the univ. have been incorporated in it, Univ. Coll. in 1907 and King's Coll. in 1910, by special acts of parliament.

There are now 14 non-med. and 15 med. schs. (incl. 2 postgrad.) in receipt of U.G.C. grants, and 4 schs. not in receipt of U.G.C. grants. In addition there are 10 univ. institutes. There are 17 non-univ. instns. having some recognized teachers.

**CONSTITUTION.** The univ. is governed under statutes made under the Univ. of London Act, 1926.

The court has the custody, control and disposition of all the property, funds and investments of the univ. and controls its finances. It comprises the chancellor, vice-chancellor, chairman of convocation and 14 other members, of whom 6 are apptd. by the senate, 4 by H.M. in Council and 3 by local authorities, 1 member being co-opted. One of its most important duties is to apply for the grants for univ. purposes to the Univ. Grants Comm., the London County Council, county councils and county borough councils of the home counties, and other public bodies, and to distribute the sums so received between univ. instns. and those schs. which receive financial aid from the univ.

The court is also responsible for the devel. of the univ. precinct (see below).

The senate is the supreme governing and executive body of the univ. in all academic matters. It is composed of reps. of the facs and of convocation, the principal, and certain hds. of schs. All appointed teachers at schs. of the univ. are apptd. by the senate, which also has power to recognize as teachers of the univ. members of the teaching staff of certain approved public educn. instns., whether schs. of the univ. or not.

Convocation consists of grads. of the univ. who have attained the age of 21 yrs., together with members of the 5 standing cities of the senate, who have paid the prescribed fees. It elects the chancellor, and 18 members of the senate in addition to the chairman of convocation, who is *ex officio* a member of the senate and court. Convocation may discuss any matter relating to the univ. and declare its opinion thereon to the court or senate.

**INCOME (1950-51).** The total income for recurrent purposes of the univ., incl. all its schs. and instns., was £19,164,481 (Treasury grants, 71.9 per cent.; grants from other govt. depts., 0.1 per cent.; grants in aid from local authorities, 2.2 per cent.; fees (incl. Ministry of Educn. tuition grants for teachers in trg.), 8.5 per cent.; endowments for both particular and general purposes, 1.5 per cent.; donations and subs., 0.5 per cent.; grants for res. and income from res. contracts, 10.1 per cent.; contributions for services rendered, 3.4 per cent.; other sources, 1.8 per cent.).

**FACULTIES AND DEANS.** *Arts*, Prof. J. S. Spink (Bedford Coll.), *econ. (incl. econ. of industry) and pol. sci.*, H. Tout (Univ. Coll.); *engn.*, Prof. A. D. Young (Queen Mary Coll.); *lawn*, Prof. R. Powell (Univ. Coll.); *med.*, Dr. H. B. May (London Hosp. Med. Coll.); *music*, Dr. F. T. Durrant (Royal Acad. of Music); *sci.*, Prof. J. A. B. Gray (Univ. Coll.); *theol.*, Rev. G. F. Nuttall (New Coll.).

**UNIVERSITY PRECINCT.** The administration of the univ. is centred at the Senate House, W.C.1, which provides accomm. for offices and the univ. library, as well as for the Insts. of Educn., Historical Research and Slavonic Studies. The bldg., designed by Charles Holden and opened in 1936, was erected on part of the Bloomsbury site, an area of 11½ acres purchased in 1927. A further 12½ acres were purchased from the Bedford estate in 1951. Substantial purchases of property have also been made on behalf of Univ. Coll., which now owns the greater part of the rectangle in which it is situated. This rectangle, together with the original Bloomsbury site and the areas purchased from the Bedford estate since the war, provides a compact area between the British Museum and the Euston Rd. for development for univ. purposes and a comprehensive outline development plan for the area has been prepared by Prof. Sir Leslie Martin.

The **UNIVERSITY LIBRARY** is a general library incl. all subjs. studied in the univ., but it is specially strong in the humanities, particularly in Engl. lit., incl. large Shakespeare collection. It contains about 750,000 vols. and 4000 current periodicals, and provides reading accomm. for 450 readers and an extensive loan service for members of the univ. Among its sp. collections are the Goldsmiths' libr. of econ. lit. (c. 70,000 vols. & pamphlets); the Durning-Lawrence libr., containing an important collection of books by and about Sir Francis Bacon, and a good working libr. on Shakespeare including the four folios; the De Morgan libr. of math. and astronomical books; the Quake memorial libr. of books on educn., especially rich in old text-books for the school-room; the Harry Price libr. of magical lit.; the Elzevir-Philips collection of Spanish books and works on the history of Spain; the Sterling libr. of rare Engl. books, the Austin Dobson collection; and the Carston shorthand libr.

The music libr. contains books and periodicals on music, music scores and gramophone records.

The photographic dept. is equipped to produce photographs, microfilms, enlargements, xerox reflex and duzo copies, and work is undertaken both for insts. and members of the univ. and also for those unconnected with the univ.

Each sch. and institution of the univ. has its own library, and some particulars of these will be found in the respective Yearbook entries below. For further details of the libraries of the univ., see R. Irwin & R. Staveley: *The Libraries of London*, 1968; and L. M. Harold: *The Libraries of Greater London*, 1951.

University library depository provides facilities for co-operative storage of books which libraries of the univ. are unable to house in their own bldgs. It came into use in May 1960 and the present bldg. accommodates about 250,000 vols. Address: Spring Rise, Egham, Surrey (tel. Egham 4560). Librarian-in-Charge: J. P. Mansbridge, BA.

**ADMISSION:** See Appendix III. Incoming students who are suitably qualified must apply to the sec. to the univ. entrance requirements dept., on form M (obtainable from the sec.), for a 'statement of eligibility'. The admission of students, provided they satisfy univ. entrance requirements, is entirely a matter for the individual schs. In all facs, except theol., med., laws and econ., fac. requirements must also be satisfied.

**First Degrees:** BD, BA, LLB, BMus, MB BS, BDS, BPharm, BVetMed, BSc, BSc(Agric), BSc(Hort), BSc(Household Science), BSc(Nutrition), BSc(Architecture), BSc(Eng), BSc(Econ), BSc(Soc), BSc(EstMan).

**Higher Degrees:** MTh, DD, MA, DLit, LL.M., LL.D., DMus, MD, MS, MDS, MPharm, MVetMed, MSc, DSc, MSc(Eng), DSc(Eng), MSc(Econ), MSc(EstMan), DSc(Econ), PhD.

**EXTERNAL STUDENTS** are permitted to proceed to the degrees of BD, BA, LLB, BMus and BSc (in the facs of art. and econ.) without restriction on the nature of the course of study, which may be pursued in a teaching instn. in London (not forming part of the Univ. of London); in a teaching instn. situated elsewhere in the United Kingdom or overseas, or by private study. Exams. are held each yr. at centres located in many parts of the U.K. and in many countries overseas.

External students are also permitted to proceed to the degrees of MB BS, BDS, BPharm and BSc (in the fac. of engin.) provided that an approved course of study has been completed in a teaching instn. which has been recognized by the Univ. of London for the purpose of these exams. (With very few exceptions, all such instns. are situated in the U.K.)

External students who wish to proceed to the degree of BA or BSc with social. as the principal subj. are normally required to pursue their studies in the U.K. and to attend course at approved instns., but exceptions may be made in sp. cases.

A student who wishes to proceed to the external higher degrees of MTh, MA, LL.M., MD, MS,

MDS, MPharm and MSc (in the facs of art., engin. and econ.) and/or to the external degree of PhD (in all facs.) must normally already possess an appropriate bachelor's degree of the Univ. of London.

The degrees of DD, DLit, LL.D., DMus and DSc (in the facs of sci., engin. and econ.) are not differentiated between internal and external students, but all candidates for these degrees are required to hold at least one degree of the Univ. of London in the appropriate fac.

All external students are required to register, and all must previously have introduced or must satisfy the general requirements of the univ. at the time of first registration and the course requirements prescribed before admission to the exams for the particular degree. Copies of all regns. may be obtained from the external registrar.

An **INTERNAL STUDENT**, before being allowed to enter as such for any exam., must, unless specially exempted, have attended courses in all the subjs. thereof. For a 1st degree in any fac. he must have completed an approved course of study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. As a general rule, honrs. may be taken at the final exams.

**DEGREE COURSES** \* for internal students are provided at the following instns:

**Theology:** King's Coll. Theol. Dept., New Coll., Richmond Coll.

**Art:** Courtauld Inst. of Art, Sch. of Slavonic and E. European Studies, Bedford Coll. (for women), Birkbeck Coll. (for pt-time students and some full-time postgrad. students), King's Coll., London Sch. of Econ. (antiquar., art., geog., philosophy and econ. and social. only), Queen Mary Coll., Royal Holloway Coll. (for women), Sch. of Oriental and African Studies, Univ. Coll., Westminster Coll. (for women), Jews' Coll.

**Architecture:** Univ. Coll.

**Laws:** King's Coll., London Sch. of Econ., Sch. of Oriental and African Studies, Univ. Coll.

**Music:** Battersea Coll. of Technol., Royal Academy of Music, Royal Coll. of Music, Trinity Coll. of Music.

**Medicine:** Guy's Hosp. Med. Sch., Middlesex Hosp. Med. Sch., Royal Free Hosp. Sch. of Med., St. Bartholomew's Hosp. Med. Coll., St. Mary's Hosp. Med. Sch., St. Thomas's Hosp. Med. Sch., and, with the exception of the 1st yr., Charing Cross Hosp. Med. Sch. and the London Hosp. Med. Coll. Courses for the 2nd and 3rd yrs. for med. degrees are provided at King's Coll. and at Univ. Coll. Students from King's Coll. attend the clin. course at King's Coll. Hosp. Med. Sch., St. George's Hosp. Med. Sch. or Westminster Med. Sch. Students from Univ. Coll. attend the clin. course at Univ. Coll. Hosp. Med. Sch. Courses for the 1st exam. for med. degrees are held at Northern Polytechnic.

**Dental surgery:** Guy's Hosp. Med. Sch., King's Coll. Hosp. Med. Sch., London Hosp.

\* See also Table on pp. 1070-1072.

Med. Coll., Royal Dental Hosp. of London  
Sch. of Dental Surg., Univ. Coll. Hosp. Med. Sch.

Veterinary medicine Royal Veterinary Coll. Pharmacy. School of Pharmacy, Chelsea Coll. of Sci. and Technol.

Postgraduate. British Postgrad. Med. Federation (Postgrad. Med. Sch. of London, Inst. of Basic Med. Sci., Inst. of Cancer Res., Inst. of Cardiol., Inst. of Child Health, Inst. of Dental Surg., Inst. of Dermatol., Inst. of Diseases of the Chest, Inst. of Laryngol. and Otol., Inst. of Neurol., Inst. of Obstet. and Gynaecol., Inst. of Ophthalmol., Inst. of Orthopaedics, Inst. of Psychiatry, Inst. of Urol.), London Sch. of Hyg. and Trop. Med., Lister Inst. of Prev. Med.

Science. Bedford Coll. (for women), Birkbeck Coll. (for pt-time students and some full-time postgrad. students), Imperial Coll. of Sci. and Technol., King's Coll., Queen Elizabeth Coll., Queen Mary Coll., Royal Holloway Coll. (for women), Univ. Coll., Westfield Coll. (for women), London Sch. of Hyg. and Trop. Med., Battersea Coll. of Technol., Chelsea Coll. of Sci. and Technol., Northern Polytechnic, Sir John Cass Coll., West Ham Coll. of Technol., Woolwich Polytechnic.

Agriculture and horticulture. Wye Coll. Household science and nutrition Queen Elizabeth Coll.

Architecture. Univ. Coll.  
Engineering. Imperial Coll. of Sci. and Technol., King's Coll., Queen Mary Coll., Univ. Coll., Battersea Coll. of Technol., Northampton Coll. of Advanced Technol., Sir John Cass Coll. (metall. only), West Ham Coll. of Technol., Woolwich Polytechnic.

Economics. Bedford Coll. (for BSc(Soc) only), London Sch. of Econ., Univ. Coll.  
Estate management. Coll. of Estate Management.

Courses for the postgrad. cert. in educn. are held at the Inst. of Educn., King's Coll., Goldsmiths' Coll. and Maria Grey Coll.

The Table of First Degree Courses on pp. 1070-1072 shows by which schools of the univ. courses in various subs. are provided. (In addition, courses leading to certain internal degrees of the univ. are provided by certain of the Institutions with Recognized Teachers of the Univ. of London—see above and pp. 1200-1207).

The following is a brief summary of the regns. There are many exceptions and exemptions in regard to which reference should be made to the latest edition of the Regulations published by the univ. (see p. 1077).

Arts. The following first degrees are awarded: BA (gen.), BA hon., BA hon. in archt.

BA (gen.) and BA hon. Normally not less than 3 yrs. in the exam. for BA (gen.) degree 3 subs. must be taken. The BA hon. degree may be taken in any one of the following branches: classics, Greek, Latin, hist., hist. of art, geog.,

maths, philos., psychol., sociol., Dutch, Engl., French, German, Italian, Portuguese, Rumanian lang. & lit., Spanish, Scandinavian lang., Czech, and Slovak lang. & lit., Hungarian lang. & lit., Polish lang. & lit., Russian lang. & lit., Serbo-Croat lang. & lit., Slavonic and E. European regional studies, Arabic, Chinese, classical Chinese (last exam. in 1965), mod. Chinese (last exam. in 1965), Hebrew, Hebrew and Arabic, classical Japanese (last exam. in 1966), mod. Japanese (last exam. in 1966), Japanese, Malay, Pali, classical Persian (last exam. in 1966), Sanskrit, Sinhalese, Turkish, also archt. and Celtic for external students and, for internal students, African studies, anthropol., Bengali, Birmese, Gujarati, Hebrew and Assyrian, Hebrew and Egyptian, Hindi, Marathi, philos., and Greek, philos. and econ., philos. and psychol., Tamil and Urdu. Candidates for BA hon. degrees in certain subs. must also offer a subsidiary subj. The BA in archt. course under revised regns. for internal students extends over 3 yrs.

The following higher degrees are awarded: MA, MA in archt., PhD, DLit. Admission to exams. for these degrees is confined to grads. of the univ. or other univs. except DLit., which is confined to grads. of the Univ. of Lond. Exam. for the MA degree may be by written papers and/or by thesis and oral exam. Exam. for the PhD degree is by thesis and oral (examiners may require written and/or practical). Candidates for the DLit. degree must have previously obtained the BA or MA degree or PhD degree in the fac. of arts. The DLit. degree is conferred for original public work.

Diploma. Internal academic dipl. in educn., 1 yr., geog., 2 yrs.; hist. of art, 2 yrs. postgrad.; town planning, pt-time, 1 yr. Academic postgrad. dipl. in anthropol., archtol., econol., philos., phonetics, psychol., 1 yr. whole-time, 2 yrs. pt-time, archive admin., librarianship, 1 yr. whole-time, 2-5 yrs. pt-time; postgrad. cert. in educn., 1 yr.; dipl. in fine art, 4 yrs. External dipl. in geog., educn.; postgrad. cert. in educn. For dipl. in the humanities, see Extra-Mural Studies, below.

Summary. The following first degrees are awarded.

BSc (gen.). normally 3 yrs.; prelim. quals. normally 3 specified subs. of G.C.E., incl. a 1st advanced level, pt. I of final exam., taken after 1 yr., in 3 subs. selected from approved list; pt. II of final exam., taken 2 yrs. after completion of pt. I, in 2 subs. selected from biochem., bot., chem., geol., phys., physiol., zool., astron., geog., maths (pure & appl.), psychol., pure maths. and stats. BSc (spec.). normally 3 yrs.; prelim. quals., normally 3 specified subs. at G.C.E. advanced level or the equivalent. Final exam. in the principal subj. and exams. in 1 or more ancillary subs. The subs. for BSc (spec.) are anat., anthropol., astron., biochem., bot., chem., geog., geol., maths., microbiol., phys.,



physiol., psychol., stats., zool. In each of the subjs. biochem., bot., chem., geol., math., phys., physiol., stats., a student already registered for BSc (spec.) in that subj. and having completed at least 1 yr. of the course for that degree may on application be permitted to transfer to a course leading to the final exam. for the degree of BSc—without hon.—in that subj. *BSc(Agriculture) with hon.*: normally a 3-yr. course; prelim. qualifs., 2 specified subjs. at G.C.E. advanced level or the equivalent; pt. I in phys. scs. and bot., pt. II in econ. and pt. III in crop production, animal production and rural econ. *BSc(Agriculture)* normally a 3-yr. course; 1st exam. in 4 subjs. Final exam. in crop bot., agric. chem. and soil sci., animal physiol. and animal hyg., animal husbandry, animal org. *BSc(Horticulture)*: normally a 3-yr. course; first exam. in 4 subjs. Final exam., principles and practice of hort. *BSc(Agricultural Sciences)* (for students registering in and after Oct. 1963): normally a 3-yr. course. Exam. in 3 pts., pt. I in phys. scs. & bot., pt. II in design and analysis of experiments, pt. III in agric. husbandry and either bot. of crop plants or bot. of farm animals or soil sci. *BSc(Nutrition)* normally a 3-yr. course; prelim. qualifs., 4 specified subjs. at G.C.E. incl. 2 at advanced level. Final exam., pt. I in bot. and phys., pt. II in chem. and pt. III in nutrition and physiol. *BSc(Household Science)*: as for BSc(Nutrition) except that pt. II includes physiol. also and pt. III consists of household sci. and either chem. or physiol. *BSc(Architecture)* for internal students: normally a 3-yr. course.

Exemptions may be granted, under certain conditions, from ancillary subjs. exams.

The following higher degrees are awarded. MSc, PhD, DSc. The MSc is conferred in the following branches: agric., anat., anthropol., astron., biochem., biophys., bot., chem., engin., chem., crystallog., genetics, geog., geol., geophys., hist. & philol. of sci., hort., math., microbiol., nutrition, pharmacol., phys., physiol., psychol., radiation bot. and radiation phys., stats., zool. In addition, there is an MSc in archit. The MSc is obtainable by written exam., dissertation, practical and oral, or by some of these methods or by thesis and oral; the PhD by thesis and oral (Examiners may also require written and/or practical). Admission to exams. for these degrees is confined to grads. of this or other univs. DSc candidates must already have obtained a degree of this univ. in sci. (or in certain cases in arts, med. or engin.) and must submit original publ. work.

*Diploma*. Academic postgrad. dipl. in bacteriol., 1 yr.; academic postgrad. dipl. in distictes, about 1 yr.; academic dipl. in geog., 2 yrs.; academic postgrad. dipl. in math., 1 yr. whole-time, 2 yrs. pt.-time; academic postgrad. dipl. in numerical analysis, 1 yr. whole-time, 2 yrs. pt.-time; academic postgrad. dipl. in nutrition, 1 yr. whole-time; academic postgrad. dipl. in psychol., 1 yr. whole-time, 2 yrs. pt.-time, academic

postgrad. dipl. in stats., 1 yr. whole-time, 2 yrs. pt.-time; external dipl. in geog., 1-2 yrs.

*Tutorship*. Prelim. (revised reg.). subjs. for BD—new test. Greek; for BD hon.—new test Greek, old test Hebrew.

*First degree*. BD (old regu.—last exam. under these regus. to be held in 1964). Not less than 2 yrs. after inter. Final exam. covers 5 compulsory subjs. (old test, new test, biblical & hist. theol., church hist., philol. modern. to theol.) and a selected subj. BD (revised regu.). At end of 3rd yr. final exam. covers 5 compulsory subjs. (old test, new test, biblical & hist. theol., church hist., philol. of religion) and a selected subj. BD hon. At end of 3rd yr. final exam. consists of 10 written papers (old test. I and II, new test. I and II, Christian doctrine to A.D. 451, church hist., philol. of religion plus 2 ap. subjs. and an optional subj.).

*Higher degree*. MTh is open to those who have obtained BD with 1st or 2nd class (upper div.) hon. of this univ. or BD with hon. of this univ. in or before 1964. Grads. of this univ. with other degrees will be required to pass a qualifying exam. Grads. of other univs. must have equivalent qualifs., failing which they will be required to pass a qualifying exam. Candidates are examined in any one of 6 branches.

*DD*. Candidates must have obtained BD (hon.) or MTh or PhD of this univ. and must submit publ. work.

*Diploma*. Academic dipl. in theol., 2 yrs. (also for external students).

*Laws*. Inter.: course extends over 1 yr. Subjs. constitutional L., Engl. legal system, elements of L. of contract and either Roman private L. or introduction to econ. & pol. instra. (External students required to offer Roman private L.) Exemption from certain subjs. is granted on basis of passes at final exams. for certain other degrees.

*First degree*. LLB. Normally 2 yrs. after inter. The final exam. is in 2 pts. and candidates must normally pass pt. I before entering for pt. II. Pt. I consists of 4 selected papers. Pt. II consists of a paper on jurispr. and legal theory and 5 papers chosen from a list of 14 alternative subjs.

*Higher degree*. LL.M. Normally no candidate is admitted until 2 yrs. after passing the LL.B. or academic postgrad. dipl. in law or equivalent. Candidates are examined in 4 papers chosen from a list of 26, or in sp. cases may submit a dissertation and be examined in 2 papers. LL.D. Candidates must hold the LL.B. or LL.M. or the PhD in the fac. of laws and must submit publ. work.

*Diploma*. Academic postgrad. dipl. in law, not less than 1 yr.

*Medicine*. MB BS degrees: the course for the MB BS degree extends normally over 5½ yrs. The 1st exam. for med. degrees (chem., phys. and biol.) is taken after 3 terms. G.C.E. at advanced level or inter. in sci. or higher sch. cert. may carry exemption from whole or part of 1st MB. The 2nd exam. for med. degrees (human anat., physiol.

and pharmacol.) is normally taken 5 terms after passing the 1st exam. The course for the 3rd (final) exam. for med. degrees extends over 3 yrs. and is divided as follows: pt. I - pathol., pt. II - med., appl. pharmacol. and therapeutics; pt. III - surg., pt. IV - obstet. & gynaecol. Pt. I may normally be taken after 30 mos. course (in exceptional cases, after 24 mos.), but after completing the full 36 mos. clin. course a candidate must enter for all the pts. of the exam. which he has not already passed.

The univ. accepts certs. for complete course of med. educn., incl. clin. med. and surg. from the following univs. outside the U.K.: Delhi Univ., McGill, Toronto, Adelaide (with infirmary), Melbourne (with Melb. and Alfred hosp.), Sydney (with infirmary and Prince Alfred hosp.), New Zealand (with Dunedin hosp.), Ceylon, Malta and from the following Indian and Pakistan med. colls.: Grant (Bombay), Sethi Gordhandas Sunderdas (Bombay), Bengal (Calcutta), Lahore Univ. Med. Coll., Lucknow Univ., Madras Univ. Med. Coll.

Candidates holding acceptable certs. for courses of study and otherwise eligible may sit for 2nd and 3rd (MB BS) med. exams. as external students. All exams. must be taken in London, and candidates must have completed not less than 1 yr. of the course at an approved med. sch. in the U.K.

**Higher degrees in med. & surg.** PhD in med. MD, by thesis to be submitted not less than 7 yrs. after obtaining full registration with the General Med. Council (4 yrs. in certain exceptional circumstances), a candidate must hold the MB BS degrees of the Univ. of London. MS, by thesis to be submitted not less than 5 calendar yrs. after candidate has obtained MB BS degrees of the Univ. of London.

**BDS degree:** the course for the BDS degree normally extends over 5½ yrs. The following exams. are taken: 1st exam. for med. degrees after 1 yr., and exam. in dent. surg. (gen. anat., physiol. and ap. anat.), 1 yr. after passing 1st MB, 3rd exam. in dent. surg., pt. I (prosthetic dent.), 1 yr. after passing and BDS, pt. II (med., surg., pathol. and bacteriol., pharmacol. and therapeutics), 23 mos. after passing and BDS, pt. III (dent. surg. incl. ap. pathol., and orthodontics), 3 yrs. and 4 mos. after passing and BDS.

**MDS degree** is open only to persons who have obtained BDS degree of this univ. as internal students. The exam. is in a pts., of which pt. I may be taken not less than 2 calendar yrs., and pt. II not less than 5 calendar yrs. after the candidate has obtained BDS degree. Pt. I of the exam. consists of a written papers in dent. surg. and pathol., and clin., oral and practical exams. Pt. II involves submission of a thesis. A candidate may also be examined orally.

**BPharm degree.** The final exam. is in two pts. Pt. I is taken at the end of the 2nd-yr. course, and includes pharmacology, pharm. chem., pharmacognosy and pharmacol. Pt. II is taken at the end of the 3rd-yr. course, and consists

of any 2 of the following: pharm. chem., pharmacognosy, pharmacol., pharmaceuticals or pharm. engin. sci.

**MPharm degree:** a candidate must normally have obtained BPharm degree (revised regis.) of the univ. and pursue a course for not less than 2 yrs. (1 yr. for a candidate who obtained hon. at the BPharm exam. as internal student and offers for MPharm either of the subjects taken at pt. II of BPharm). MPharm is conferred on following subj., pharm. chem., pharmaceuticals, pharmacol., pharmacognosy, or pharm. engin. sci.

**BVetMed degree (internal only)** (no registrations in and after Oct. 1963): the course for the BVetMed degree extends over 5 yrs. 1 term. The vet. pre-clin. exam. pt. I is taken after 3 terms' course at the Royal Vet. Coll. and the vet. post-clin. exam. pt. II after a further 5 terms' course. The course for the final exam. for the BVetMed degree extends over 8 terms at the Royal Vet. Coll. BVetMed degree (internal only) (for students registering in and after Oct. 1964): the course will extend over 4 yrs. 2 terms. First exam. after 6 terms, and exam. after further 5 terms; 3rd & 4th exams. not less than 8 terms after passing 1st exam.

**MVetMed degree (internal only):** candidate must have obtained BVetMed of this univ. or BSc(VetSci) or some other degree of this univ. which is deemed suitable. Candidates with a degree in vet. med. or vet. sci. of another univ. may be required to pass a qualifying exam. All candidates must hold a qualif. which entitles to registration as vet. surgeon by Royal Coll. of Vet. Surgeons. Degree may be obtained either by exam. or thesis.

**Diploma Academic postgrad. dipl. in animal health, appl. parasitol. and entomol., bacteriol., clinical med. of the tropics** (for students registering in and after Oct. 1963), clin. pathol. (also for external students), occupul. hyg., pub. health, trop. med. & hyg., trop. pub. health (for students registering in and after Oct. 1963), 1 yr.; in dietetics, 2 terms and 6 mos.; practical work; psychological med. (pt. I after not less than 6 mos. course and pt. II after a course of study extending over 3 academic yrs.). For dipl. in nursing, see Extra-Mural Studies, below.

**Music.** The subj. for the inter. exam. are harmony and counterpoint, form and analysis, and hist. of mus. For the BMus exam.: harmony and counterpoint, fugue including canon writing, orchestration, hist. of music, 2 sps. selected by the candidate, oral exam. and practical test. For the DMus candidates must have obtained the BMus degree of the Univ. of London normally not less than 3 yrs. previously. There is a written and an oral exam. and a musical exercise.

**ENGINEERING.** The following degrees are conferred in the fac. of engin.: BSc(Eng), BSc(Eng) in chem. engin.; BSc(Eng) in metall.; BSc(Eng) in mining; MSc(Eng); PhD, DSc(Eng). The course of study for the final exam. for a bachelor's

(continued on p. 1074)

TABLE OF FIRST DEGREE COURSES AT SCHOOLS OF UNIVERSITY OF LONDON

(For Notes, see p. 1073)

For an explanation of the symbols used, see p. 1073.	Bedford	Bathwick	Imperial	King's	London School of Economics	Queen Elizabeth	Queen Mary	Royal Holloway	School of Oriental and African Studies	University College	Westfield	Wye	School of Science and European Studies	Courtauld Institute of Art
Anatomy <sup>1</sup>														
Anthropology														
Astronomy														
Biochemistry														
Biology														
Chemistry														
Geography														
Geology <sup>2</sup>														
Mathematics <sup>3</sup>														
Microbiology														
Physics														
Physiology <sup>4</sup>														
Psychology														
Statistics														
Zoology														
BSc(Agriculture) and BSc(Horticulture)														
BSc(Nutrition) & BSc(Household Sci)														
BSc(Architecture)														



TABLE OF FIRST DEGREE COURSES AT SCHOOLS OF UNIVERSITY OF LONDON—continued  
(For Notes, see p 1073)

For an explanation of the symbols used, see p 1073.	Bedford	Bathwick	Imperial	King's	London School of Economics	Queen Elizabeth	Queen Mary	Royal Holloway	School of Oriental and African Studies	University College	Westfield	Wye	School of Slavonic and European Studies	Courtside Institute of Art
Courses in Faculty of Sciences— BSc(Engineering)	Slavonic and E. European Languages	✓											✓	
	Sociology				✓								✓	
	Spanish*	✓	✓	✓			✓				✓			
	Theology			✓										
	War Studies			✓										
	BA in Architecture									✓				
	Aeronautical Engineering													
	Civil, Electr. & Mech. Engineering		✓	✓			✓	✓		✓				
	BSc (Chemical Engineering)		✓	✓				✓		✓				
	BSc(Metallurgy)		✓	✓				✓						
Courses in Faculty of Economics	BSc(Mining)*		✓											
	BSc(Economics)				✓					✓				
	BSc(Sociology)	✓			✓									
Courses in Faculties of Law Theology Medicine	Courses in Faculty of Law*			✓	✓					✓				
	Courses in Faculty of Theology*			✓										
	Courses in Faculty of Medicine— see notes 10-13			✓										

# NOTES TO TABLE

The symbol ✓ means that the subject mentioned may be studied for an honour or special degree. The symbol ✓ means that the subject mentioned may be studied as part of the course for a general degree.

## Faculty of Science

1. **ANATOMY** Students at King's Coll. must first enter the fac. of med. and pass the med exam. for med. degrees. Courses also available at certain med. schools under similar conditions

2. **SPECIAL REGS.** are in force at Imperial Coll. for BSc (Spec) degree in mining geol. and in the technol. of oil.

3. Courses at Queen Elizabeth Coll. will be available from Oct. 1963

4. **PSYCHOTECNICAL** Courses also available to students who have completed their pre-clin. trg at certain med. schools.

## Faculty of Arts

5. **PHILOSOPHY.** The following courses are available for BA honours degree — *Philos.* (not at London Sch. of Economics); *Philos. & Econ.* (not at Birkbeck Coll. or King's Coll.); *Philos. & Great* (not at London Sch. of Economics); *Philos. & Psychol.* (not at King's Coll. or London Sch. of Economics); *Hist. of Philos.* is available for BA (gen.) degree

6. **HUMANIOR** Courses also available at Jews' College

7. **SPANISH** available at Bedford Coll. by arrangement with King's Coll.

## Faculty of Law

8. Courses for LLB available at Sch. of Oriental and African Studies but students must register at other colls.

## Faculty of Theology

9. Courses also available at New Coll. and at Richmond Coll.

## Faculty of Medicine

10. Courses for degrees of MB BS available at the following schools — Charing Cross Hosp. Med. Sch.; Guy's Hosp. Med. Sch.; King's Coll. Hosp. Med. Sch.; London Hosp. Med. Coll.; Middlesex Hosp. Med. Sch.; Royal Free Hosp. Sch. of Med.; St. Bartholomew's Hosp. Med. Coll.; St. George's Hosp. Med. Sch.; St. Mary's Hosp. Med. Sch.; St. Thomas's Hosp. Med. Sch.; University Coll. Hosp. Med. Sch.; Westminster Med. Sch.

11. Courses for the BDS degree available at — Guy's Hosp. Dental Sch.; King's Coll. Hosp. Med. Sch.; London Hosp. Med. Coll.; Royal Dental Hosp. of London Sch. of Dental Surg.; University Coll. Hosp. Med. Sch.

12. Courses for degree of bachelor of veterinary medicine available at Royal Veterinary Coll.

13. Courses for degree of bachelor of pharmacy available at Sch. of Pharmacy.

*continued from p. 2069]*

degree extends over not less than 3 yrs.\* Before entry on a course of study for the final exam. for the BSc(Eng) degree or the BSc(Eng) degree in mining, internal and external candidates must pass at advanced level in pure maths. and appl. maths (or maths (pure and appl.)) and phys. and at ordinary level in chem. at a G.C.E. exam. or an approved equivalent, for the BSc(Eng) degree in chem. engin. and metall. chem. and phys. must be at advanced level but either pure or appl. maths., if taken as 2 subjs., may be at ordinary level. Candidates who have passed at advanced level in 3 of the 4 subjs. pure maths., appl. maths., phys. and chem., may be allowed to enter on the course and to complete the entrance qualifs. by passing at the appropriate level in the 4th subjs. before taking any part of the final exam.

The gen. internal, sp. and external final exams. in *engin. and metall.* and the external final exam. in *mining* are divided into 3 pts. The gen. internal and external final exams in *chem. engin.* are divided into 2 pts., pt. I being divided into 2 sections. There are two sp. exams. in *chem. engin.*, one divided into 2 pts., the other into 3 pts. There is a sp. exam. in *mining*. The sp. exams. are confined to internal students of certain schs. of the univ.

Internal candidates for the MSc(Eng) degree are required to have graduated as internal students in the Univ. of Lond. at least 1 yr (or in the case of other grads. at least 2 yrs.) before entry to the MSc(Eng) exam., but grads. of other univs. are admitted by statute from proceeding direct to higher degrees as external students. The exam. is by thesis or dissertation or by written papers and a report and there is an oral exam. The examiners may also require a written exam. in addition to a thesis or dissertation.

Internal and external candidates for the DSc(Eng) degree must have obtained in this univ. the BSc(Eng) degree, MSc(Eng) degree or PhD degree in the fac. of engin. The degree is awarded only for publd. work of a high standard such as would give the candidate an authoritative standing in his particular field of res.

**ECONOMICS First degree** The following are awarded: BSc(Econ). Normally 3 yrs. Prelim. qualifs.: candidates must have passed an inter., prelim. or first exam. or possess a G.C.E. with 3 subjs. at advanced level. The final exam. is in 2 pts. Under revised regns., pt. I covers 3 compulsory papers (econ., British govt. hist. [econ. hist. or pol. hist.]) and 2 alternative subjs. chosen from a list of 15. Pt. II consists of 8 papers as prescribed for each of 14 sp. subjs.

BSc(Soc). Normally 3 yrs. Prelim. qualifs.: Candidates must have passed an inter., prelim. or 1st exam. or possess a G.C.E. with 3 subjs. at advanced level. A candidate who has obtained a BA hon. degree in social, or BSc(Econ) with sp. subjs. social or soc. anthropol., will not be ad-

mitted. The final exam. consists of 9 papers from 2 groups. Candidates must also pass in econ. as a subsidiary subjs.

BSc(EstMan). Normally 3 yrs. 1st exam. in 4 subjs. No exemptions granted. Final exam. consists of 11 papers chosen from either the urban group or the rural group of subjs. Course work must be submitted for both exams.

**Higher degrees** The following are awarded: MSc(Econ), MSc(EstMan), PhD, DSc(Econ). Admission to master's degrees is normally 2 yrs. after passing the appropriate 1st degree. Candidates who have obtained the BSc(Econ) with 1st cl. and class (upper div.) hon. as internal students may be admitted after 1 yr. They will be required to take the MSc(Econ) by 4 written papers, and, at the discretion of the examiners, an oral exam. For the MSc(Econ) candidates are examined in 1 subjs. to be selected from a lengthy list (4 papers or a dissertation and a papers). The MSc(EstMan) exam. consists of 4 papers on a selected, approved general subjs. and a dissertation on an approved sp. subjs.

DSc(Econ) Candidates must hold the BSc(Econ) or MSc(Econ) or BSc(Soc) or BSc(EstMan) or BCom or MCom or PhD in the fac. of econ. and must submit publd. work.

**Diplomas** Postgrad. dipl. in pub. admin., normally 2 yrs., dipl. in soc. studies (external), normally 2 yrs., postgrad. dipl. in firm business admin., 1 yr.

**SCHEMES OF SPECIAL RELATION WITH UNIVERSITY COLLEGES OVERSEAS** These schemes originated in proposals made in the report of the Commission on Higher Education in the Colonies which was apptd. by the secretary of state in 1943, under the chairmanship of Mr Justice, later Lord, Asquith. The purpose of the schemes is to help univ. colls. during their transition to full univ. status, by enabling the colls. to enter their students for London degrees which are awarded as the result of special exams. The syllabuses of these exams. are adjusted to the geographical, linguistic and educat. conditions of the territory, but represent no relaxation in the standards of the univ.

Certain conditions are laid down limiting the admission of univ. colls. to the schemes. A coll. must satisfy the univ. that its staff, resources, equipment and machinery of govt. are appropriate to an instn. aspiring to univ. status, and in particular that it possesses an academic body charged with the duty of formulating academic policy. This policy must include the encouragement of the pursuit of a regular and liberal course of educn. and of a corporate life among its students, the promotion of res. on the part of staff and postgrad. students, and willingness to accept the responsibilities of intellectual leadership in the community it serves. The conditions for the admission of students must also be considered appropriate.

The main objects of these schemes of 'special

\* External students are required to pursue the course at an institution recognized for the purpose unless excused by reason of approved trg. and experience elsewhere.

relation' may be summarized as follows: (1) the establishment of direct and easy co-operation between the academic boards of the overseas colls and the univ.; (2) the institution of a regular system of consultation between the authorities of the univ. and the staffs of the colls on questions of syllabus and exam. requirements; (3) the promotion of personal contact between the examiners appointed by the univ. and the teachers in the colls; (4) the participation by members of the staff of the colls in the actual work of examining their own students; (5) the interchange of visits and the giving of assistance and advice by the univ. on such matters as the overseas colls may desire.

There are at present schemes with the Univ. Coll., Ibadan, in Nigeria; Makerere Coll. in Uganda, the Univ. Coll. of Rhodesia and Nyasaland (in respect of students who entered in 1961 and 1962) with the Royal College, Nairobi, in Kenya. The fee of law at the Univ. Coll., Dar es Salaam, is, for the purposes of the scheme of special relation with Makerere Coll., regarded as a fee of that coll. for a limited period, thus enabling students at Dar es Salaam to read for a London degree.

**POSTGRADUATE STUDY AND RESEARCH.** In most schs. of the univ. ap. arrangements are made for res. students, and the facilities offered are not restricted to internal grads. of the univ. External grads. and grads. of other approved univs. are allowed, under certain conditions, to enter as external students for the degree of bachelor or of PhD in the several facs., and for the degree of MTh, MA, LL.M., MSc or MSc(Eng.). Every candidate must submit evidence of graduation, etc., together with a cert. from the authorities of the sch. or institution of the univ. at which he proposes to study, stating that the student is, in their opinion, a fit person to undertake the proposed course of study and res., and that they are willing to supervise his work. An overseas student may himself submit an appln. on the prescribed form, and the univ. will, if so requested, advise on the selection of the sch. or institution at which, and teacher under whom, he should study. Applns. for such advice should be addressed to the academic registrar of the univ. Overseas students should apply for registration before coming to London, and their applns. should reach the univ. if possible 12 mos. before the commencement of their course, and at the latest by March 1, to enable them, should their applns. be successful, to enter upon their course of study in the following Oct., i.e. at the beginning of the session. Students whose applns. are approved are required to pursue a course extending over at least 2 yrs.

An internal student who is a candidate for the PhD degree must have graduated in the univ. or in another univ. An internal student is further required to pursue a course of study of not less than 2 yrs.' full-time, or 4 yrs.' pt.-time, training in res. and res. methods. Any grad. of the univ. may

become a candidate for the PhD degree in his first degree fac., as an external student on receiving the approval of the council for external students. It should be noted that only grads. of the Univ. of London may register as external students for a master's or PhD degree.

**FEES.** *Registration* (non-recurrent and incl. matric)—internal, normal 1st degree 3 gs., postgrad. 6 gs.; external: normal degree 5 gs., postgrad. 2 gs., advanced students 5 gs. *Exam. fees* (no graduation fees)—arts and sci., from £18 to £20; med., vet. med., and dent., from £33 to £47. Details of annual tuition fees are given in the sections relating to the schs., below.

**ACADEMIC YEAR** for univ. and inter-collegiate courses, 1963-64: Oct. 2-Dec. 11, Jan. 8-March 18; April 22-July 1.

Particulars of UNDERGRADUATE SCHOLARSHIPS, etc., awarded on the results of exams. held by the London Intercollegiate Scholips. Bd., may be obtained from the sec. of the bd., J. Rathborn, BA, Univ. of London, Senate House, W.C.1.

POSTGRADUATE AWARDS open to grads. of other univs., see p. 910.

**BOTANICAL SUPPLY UNIT,** Elm Lodge, Englefield Green, Surrey. The univ. botanical supply unit was establd. in 1950 to provide schs. and univ. of the univ. with bot. material. The grounds now cover an area of about 15 acres. The unit is able to produce a large variety of material in bulk for class purposes, and numerous specimen plants can be lent to schs. and univ. for class demonstration. It is also able to supply some types of material for res. Curator: J. I. H. Rees, BSc.

**COMPUTER UNIT.** The Univ. of London Computer Unit occupies premises in 44-45 Gordon Square, W.C.1, and has had the use of a Ferranti 'Mercury' computer since 1959. This machine is now housed in 5-9 University Street, whilst preparations are on hand to install a Ferranti 'Atlas' in Gordon Square. This much larger computer is expected to be in operation early in 1964. Dir. R. A. Buckingham, PhD.

**ADVISORY SERVICE FOR EXTERNAL STUDENTS.** Any external student who is duly registered for an external degree or dipl. and experiences any difficulty in connexion with the appropriate studies may apply to the external registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an adviser.

The COMMERCE DEGREE BUREAU exists to help in their studies external (especially extra-London) students proposing to take the BSc(Econ) degree (for which postal courses of study may be provided), to provide a reference and lending library for students and generally to promote the value and usefulness of the degrees. The bureau is administered by a senate officer. Prospectus and enquiry forms obtainable on appln. to the sec.,



Commerce Degree Bureau, Senate House, W.C. 1  
Tel.: Museum 2843.

**ADVISER TO OVERSEAS STUDENTS.** Students from outside the British Isles may obtain general information, advice on personal problems and in emergencies, from the Univ. of London Adviser to Overseas Students, Univ. of London Union, Malet St., W.C.1. Tel.: Langham 5035.

**THE UNIVERSITY APPOINTMENTS BOARD** exists to obtain appts for grades. Address: 49 Gordon Square, W.C.1 (tel.: Euston 7489).

**RESIDENCE.** (For wardens, see 'Admin and Other Staff', p. 1063.) Halls of residence provided by the senate: Canterbury Hall, Cartwright Gardens, W.C.1 (tel.: Euston 5526), for 218 women students (fees, £135-158 and £145-168 per session of 30 weeks); Commonwealth Hall, Cartwright Gardens, W.C.1, which should be ready to accomm. 400 men students in Jan 1965 (fees, £145 per session of 30 weeks); Connaught Hall, Tavistock Sq., W.C.1 (tel.: Euston 6181), for 196 men students (fees, £140 per session of 30 weeks); International Hall, Brunswick Sq., W.C.1 (tel.: Tottenham 0746), for 270 men students (fees, £135-£145: 58 per session of 30 weeks); and Nutford House, Brown St., W.1 (tel.: Ambassador 4431), for 190 women students (fees, £120 and £135 per session of 30 weeks). Other hall of residence recognized by the senate: College Hall, Malet St., W.C.1, for 220 women students (fees, £132-68 and £148: 18. per session).

Residence is also provided at or in connexion with the Inst. of Educn., Imperial Coll., King's Coll., London Sch. of Econ., Queen Mary Coll., Univ. Coll. and Wye Coll.; Guy's, London, Middlesex, St. Bartholomew's, St. Mary's, St. Thomas's, Univ. Coll. Hosp. med. schs. and Westminster Med. Sch.; the theol. colls. and the women's colls. (see coll. entries). London House, Guilford St., W.C.1, provides accomm. for 275 Commonwealth men students, including some from the U.K.

**LODGINGS BUREAU,** Univ. of London Union, Malet St., W.C.1 (tel.: Museum 2818). Enquiries to be addressed to the lodgings officer.

**MILITARY EDUCATION.** War studies is one of the optional subj. for the final BA (general) for internal students only.

The Univ. of London contingent of the O.T.C., authorized by the Army Council in 1909, is open to internal students, both men and women. Its main purpose is to train students for commissioned service in the army. Information from the adjutant, Univ. of London contingent, O.T.C., Yeomanry House, Handel St., W.C.1 (tel.: Tottenham 3118).

**Air Squadron.** The Univ. of London air squadron was founded in 1935 by the Air Ministry with the assistance of the univ. authorities. Its main object is to promote a serious interest in flying and its allied subj. Applicants for member-

ship should be addressed to the sec., U of L. Air Squadron, 48 Princes Gdns., S.W.7 (tel.: Kensington 2433).

**UNIVERSITY UNION** (founded 1921), Malet St., W.C.1 (tel.: Langham 9551). Most of the schs. and colls. of the univ. also have their own uncos. The univ. athletic ground is at Mootspur Park, Surrey (tel.: Malden 0661), and the univ. boat-house at Hartington Rd., Chiswick (tel.: Chiswick 5562).

**EXTRA-MURAL STUDIES.** The area of operation of the council for extra-mural studies includes the counties of London, Middlesex and Surrey, S.-W. Essex and S. Hertfordshire, and the county boroughs of Croydon, E. Ham, W. Ham and Southend-on-Sea. The work is divided into 4 sections and the chief admin. officers of the dept. are: dir. of dept.—W. Bernheimer, MA Oxon.; dep. dir. (extension)—C. P. Thomas, BA Wales; dep. dir. (tutorial classes)—F. G. Brook, BSc (Econ) PhD; hd of vocational dipls. section—R. A. S. Knowles; hd of sp. courses section—Winifred Rambotham, MA.

(a) *Univ. Extension Courses* have been carried on since 1902 (prior to that, 1876-1902, by the London Sch. for the Extension of Univ. Teaching). The sess. and terminal courses provided cover various fields of knowledge—archaeol., hist., lit., econ., sociol., bibl. studies, internat. affairs, music, visual arts, geog., transport studies, phys. and biol. sci., and allied subj. Short courses of a pioneer or illustrative kind are also arranged. An exam. is held, where reqd., at the end of a sess. course. Continuous study is encouraged by the *diphs. in the Humanities* (hist., lit., econ., sociol., hist. of art, bibl. and relig. studies, internat. affairs, visual arts, archaeol., hist. of music) awarded to students who complete approved courses of study, usually covering 4 yrs., and pass annual exams. and by 3-yr. courses for the *cert. in transport studies*. Provision is made, where required, for post-dipl. study. Vacation courses and study tours at home and abroad are arranged. More than 30 week-end courses are held each yr. Work is carried on mainly by pt-time lectrs. There is a staff lectr. in phys. sci.: H. G. Frost, BSc.

(b) *Tutorial Classes* have been provided since 1909 in close co-operation with the W.E.A. The classes extend over 3 yrs., usually with a max. membership of 24 students. Sess. classes and advanced classes lasting one session are also provided. Summer schs. and week-end courses are held each yr. There are no exams, but all students undertake to do written work arranged with the tutor to suit individual needs. The subj. include archaeol., art, econ., hist., internat. relations, lit., music, philos., pol. and psychol. Work is carried on partly by pt-time tutors but also by staff tutors: G. Bush, MA DPhil Oxon.; D. Butt, BA Oxon.; J. P. Carruthers, MA Glas.; P. J. Cronan, BA Brst.; Blati Oxon.; E. M. Eppel, MA EdB Glas.; H. Fyfe, BSc(Econ); W. J. A. Harris, BA Wales, MSc(Econ); Mrs.

Joy MacAskill, MA BLett DipEd Oxon.; Elizabeth Monkhouse, BA Oxon., DUPosters; L. Speak, MA Leeds; Louis Spencer, BA Oxon., PhD; L. G. Stone, BSc(Econ); C. G. Stutterd, MA Camb.; J. R. Williams, BA Leeds.

(c) *Vocational Dipls. and Certs.* The council for extra-mural studies also administers the following dipls. and certs. which are, broadly speaking, vocational in purpose: dipls. in dramatic art, nursing, theatre and sister-tutor's dipl., certs. of proficiency in dictation & drama, Engl. for foreign students\*, mod. foreign langs., natural hist., and religious knowledge.

Exams. are held once a yr. in London and, in certain cases, also in the provinces and overseas. An annual 4-wk residential summer course in Engl. for foreign students is held, designed to widen the student's knowledge not only of contemporary Engl. lang. and lit. but of Engl. instns. and art, by means of lectures, classes and visits.

(d) An annual residential summer school, lasting 6 wks, is held for American, Commonwealth and European students (grad. or sr. undergrad.) as part of a programme arranged jty. with other univs. The programme usually includes courses in lit., hist., art.

(Further information and copies of regns. may be obtained from the dir., dept. of extra-mural studies, Univ. of London, Senate House, W.C.1.)

**SCHOOL EXAMINATIONS.** The univ. conducts exams. for the General Cert. of Educn. for sch. and private candidates.

The exam. is held at the ordinary and the advanced levels in June and in Jan., and special papers are set in conjunction with the advanced level June exam. There are no group requirements, and candidates may offer one or more subsjs. up to certain maxima.

The univ. is prepared to hold the exam. at schs. and for private candidates overseas, provided that

from schs. in other parts of the Commonwealth, the appln. is received through the govt.; or in the case of schs. in foreign countries, through H.M. representative.

Regns. (price 1s. 6d.) are obtainable from the Univ. of London publns. dept., 1 Malet St., W.C.1.

**OFFICIAL PUBLICATIONS.** The following are obtainable from the Univ. of London publns. dept., 1 Malet St., W.C.1.

*Calendar*, 21s. incl. postage. *Gazette*, 9 issues per yr., annual sub., 10s., single no., 1s. 3d., incl. postage. *Annual Report by the Principal, Univ. of London Act, 1926, and Statutes*, 3s. 6d. *Evans. Papers*, publi. as soon as possible after the several exams.; prices vary from 6d. to 3s.

**Regulations.** The following may be obtained on appln. to the central office of the univ.: regns. for internal and for external students (publ. separately) for degrees in arts, sci., agric., etc., for the various dipls. and certs. in sp. subsjs., for PhD degree; scholrs. pamphlet; pamphlets of *General Information* for internal students and for external students.

**ATHLON PRIZE**, 2 Gower St., W.C.1: (tel.: Langham 9535-6) The press was establd. in 1950, its functions being to publish univ. lectures, the work of grads. of the univ. and of teachers of the univ. or of its schs. and central institutions, and such other works as the bd. of management may accept.

**UNIVERSITY BOOKSHOP.** In conjunction with Miss Una J. Dillon, the univ. has formed a company, trading under the name of Dillon's University Bookshop Ltd., to operate a bookshop at 1 Malet St., W.C.1: (tel.: Museum 2128) The bookshop is designed to meet in particular the needs of students and others who are sitting for the exams. of the univ.

## THE YEAR 1961

**PRINCIPAL BENEFRACTIONS.** Alexander Pagett Weir Memorial Trust, £25,000 for Inst. of Ophthalmology.

**NEW CHAIRS.** See under Schools and Institutions, below.

**HONORARY DEGREES.** DMus—Sir John Barbirolli. DSc—Prof. Sir Howard Florey, F.R.S. LL.D.—Sir Edward Hale, Sir Frances Fraser, Sir Bernard Wisley-Cohen. DSc(Engineering)—Rt Hon. Lord Nelson of Stafford.

### Statistics

**STUDENT NUMBERS.** Registered internal students for session 1960-61: 26,764 (20,361 m., 6,401 w.); 21,838 full-time, 4,924 pt-time students.

Included in this total are 3,109 postgrad. students.

Students from other countries, 4,373. (Countries from which largest numbers came: India, 760; Nigeria, 365; Pakistan, 207; U.S.A., 196; Canada, 165; South Africa, 145; Poland, 143.)

Registered external students for session 1960-61: 26,953. Prelim exams.: 6,882 Degree and dipl. exams.: tech. colls., 4843; other instns., 1411; correspondence colls., 3432; private study, 1513; students resident abroad, 3622. Colonial univ. colls. (inter and final): 3581. Higher degrees (master's and PhDs): 1869.

Number of full-time students in schs. of the univ. and senate instns. (based on U.G.C. returns)§

\* The Univ. of Cambridge Local Exams. Syndicate also awards a cert. of proficiency in Engl., see p. 374.  
§ *University Grants Committee. Returns from Universities and University Colleges in Receipt of Treasury Grant, Academic Year 1960-61.* Cmd. 2855 (H.M.S.O., 1962).

in 1960-61: 21,995 (15,781 m, 6214 w.); of these, 5120 were 1st-yr admissions (3555 m., 1565 w.)

INTERNAL DEGREES AWARDED (1960-61). Arts: *first degrees*, 977; *masters' degrees*, 67, *PhD*, 99. Econ.: 377, 40, 28. Engin.: 709, 31, 80. Laws: 192, 34, 7. Med.: 822, 4, 40. Music: 6, 0, 1. Sci.: 1373, 172, 338. Theol.: 32, 0, 1.

EXTERNAL DEGREES AWARDED (1960-61). Arts: *first degrees*, 326; *masters' degrees*, 18, *PhD*, 11. Econ.: 213, 6, 4. Engin.: 288, 4, 10. Laws:

209, 4, 0. Med.: 37, 1, 2. Music: 11, 0, 0. Sci.: 265, 23, 34. Theol.: 68, 2, 4.

HIGHER DOCTORATES AWARDED (1960-61). Arts: 1, econ., 0, engin., 1; laws, 0, med., 21. Music, 2, sci., 41; theol., 0.

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STUDENT NUMBERS (October 1961). See under Schools and Institutions, below

## UNIVERSITY INSTITUTES

[Information compiled as at 1/8/62]

## COURTAULD INSTITUTE OF ART

Founded 1932

Postal Address: 20 Portman Square, London, W 1, England

Cables and Telegrams: Courtauld Institute, 20 Portman Square, London, W.1

Telephones: Welbeck 1388-9

CHAIRMAN OF MANAGEMENT COMMITTEE—LORD ROBBINS, CB, MA Oxon., Hon DLitt Durh & Ess., Hon LHD Cdt., Hon LLD Camb., *Lect & Stes.*, Hon Dr T U Lubau, BSc(Econ), FBA

DIRECTOR—Professor Sir ANTHONY BLUNT, KCVO, PhD MA Camb., Hon DLitt Brat., FBA, FSA

DEPUTY DIRECTOR—G. ZANONCHI, MA Croton, PhD, FSA

REGISTRAR—C. CLARE

## TEACHING STAFF

<b>Art, History of</b>		Shearman, J., PhD	Asst Lectr
The Director	Prof.	Martindale, A., MA Oxon.	Asst. Lectr.
The Deputy Dir.	Reader		
Whinney, Margaret D., DLitt, FSA	Reader	<b>Technology of Art, History of</b>	
Hobler, C., MA Oxon., FSA	Lectr.		Prof.
Kinson, M., MA Camb.	Lectr.		Sen. Lectr.
Bowness, A., MA Camb.	Asst Lectr.	Rees-Jones, S., MSc, FSA	

## ADMINISTRATIVE AND OTHER STAFF

Conway Librarian: P. Kinson, PhD, FSA.	Books: Lillian Gurry, BA, FLA	Gallery
Witt Librarian: P. Murray, PhD, FSA	Curator: P. O. Troutman, BA.	
Slide Librarian: Agnes Wyatt, BA	<i>Misc</i>	

## GENERAL INFORMATION

Opened to students in 1932, as the result of a gift of £100,000 for bldgs. and partial endowment by Mr Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Other benefactions incl. a gift by the late Alderman J. G

Graves, the bequest of his estate by the late Mr. Norman Wilkinson of Four Oaks (with which a scientific dept and lab have been estab'd) and the Witt collection of drawings and Witt library of reproductions bequeathed by Sir Robert Witt.

U.K.—ENGLAND (LONDON)

The present headquarters of the inst., one of the finest examples of the work of the brothers Adam, is also a gift from Mr. Courttold, and is open to visitors during vacation and at certain other times by appt. When the headquarters of the inst. are moved to Woburn Sq. in Bloomsbury, 20 Portman Sq. will remain the official residence of the dir. and a centre for spec. studies.

The galleries of the inst., situated over the Warburg Inst. in Woburn Sq., are open to the public. They incl. important collections of paintings and drawings bequeathed by Lord Lee of Fareham, Samuel Courttold, Roger Fry and Sir Robert Witt.

The inst. is a univ. dept. concerned with teaching and res. in the hist. of art (European).

**LIBRARY** 25,978 vols and 22,319 pamphlets, slide collection and Conway library of photographs. The Witt Library of reproductions is housed in the inst. at 20 Portman Sq.

**ADMISSIONS.** See p. 1066 and Appendix III

**FIRST DEGREES** (of Univ. of London). In hist. of art—BA (hons.) (3 yrs.)

**HIGHER DEGREES** (of Univ. of London). In hist. of art—MA (2 yrs. from BA), PhD (2 yrs. from MA).

**DIPLOMAS** (of Univ. of London). In hist. of art—postgrad dipl. (2 yrs.).

**CERTIFICATES.** Inst. cert. in hist. of art (awarded on results of exam. based on lectures open to public).

**RESEARCH.** Res. students accepted and a number of lectures are given to which the gen. public are admitted.

**FEES.** For full-time undergrad. and dipl., £50 p.a., full-time postgrad., £40 p.a. Fees for pt.-time students or for public lectures on applicn. to the registrar.

**PUBLICATIONS.** *The Bibliog. of British Art; Prospectus*; in assoc. with the Warburg Inst., *Journal of the Warburg and Courttold Insts.*

## THE YEAR 1961

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	85	24
Women	72	59
Total	127	83

All students are in fac. of arts

Included in the figures above are—

Postgraduate students, 95.

New admissions, 104

Students from other countries, 69 (Countries from which largest numbers came: U.S.A., 33, Canada, 8)

**DEGREES AWARDED** (by Univ. of London) (1960-61). BA hons. hist. of art, 15, PhD, 3; MA, 2

**DIPLOMAS AWARDED** (by Univ. of London) (1960-61). Postgrad. academic dipl. in hist. of art, 6.

**CERTIFICATES AWARDED** (1960-61). Inst. cert. in hist. of art, 7

[Information compiled as at 1/8/62]

## INSTITUTE OF ADVANCED LEGAL STUDIES

Founded 1948

**Postal Address:** 25 Russell Square, London, W.C.1, England

**Cables and Telegrams.** Institute of Advanced Legal Studies, 25 Russell Square, London, W.C.1

**Telephones:** Langham 4868

**CHAIRMAN OF COMMITTEE OF MANAGEMENT**—Professor Sir DAVID HUGHES PARRY, QC, MA Camb., Hon. DCL, *McG.*, Hon. LL.D. *Bryn.*, *Br. Col.*, Camb., *Exc.*, *Hull*, *New Br.*, *Wales & W. Ont.*  
**DIRECTOR**—Professor J. N. D. ANDERSON, OBE, MA LL.D. Camb.  
**SECRETARY AND LIBRARIAN**—K. H. DRAKE, MA Camb.

## GENERAL INFORMATION

The inst. was establd. as pt. of the post-war expansion of the Univ. of London and occupies premises near the Senate House. Its aim is to act as a focal point for legal res., to provide seminar classes for students reading for higher degrees in law at a sch. of the univ., and to build up a good working res. library in law. The inst. has collated particulars of legal res. undertaken in Britain and the Commonwealth, and is in a position to pass this information on to res. workers and other enquirers. An annual list of topics in progress is prepared.

Teaching at the inst. is undertaken by members of the law teaching staffs of colls. and schs. in the univ. with a fac. of laws, in addn to the dir. of the inst.

**LIBRARY.** Nearly 70,000 items. The inst. has acquired practically all U.K. law reports and statutes and basic works, particularly those of use for seminar purposes. Through continued purchases made possible by generous gift from the Nuffield Foundation, the Nuffield library of Commonwealth law is comprehensive except for India and Pakistan. The U.S. holdings include several sets of law reports, the main treatises of academic interest and over 100 U.S. law reviews received regularly, about two-thirds of which are not known to be taken elsewhere in Britain. Earlier vols. are being acquired whenever possible.

**FIRST DEGREE.** No courses provided for first degrees.

**ADMISSION.** Admission to the inst. may be granted, without fee, to teachers of law in univs. and univ. colls., both in the U.K. and overseas, and to teachers in other law schs. who are qualified to become members of the Soc. of Public Teachers of Law; to postgrad. students engaged on approved res.; to other univ. students attending

a class or seminar at the inst., and to other persons by permission of the dir. Persons who already hold a res. degree or have publd. the results of their researches, or have had considerable trig. or practical experience in the law, may be admitted to the use of the inst. either on payment of a fee, or without fee, if duly invited and willing to assist in the work of a seminar held at the inst.

Postgrad. students, whether reading for a degree or dipl. or not, must register at a coll. or sch. of the univ. with a fac. of laws (i.e. at King's Coll., Univ. Coll., L.S.E. or the Sch. of Oriental and African Studies). When so registered, they will become eligible, on the recommendation of their teachers, for admission to the inst.

**PUBLICATIONS.** *Annual Report* presented to the senate, annual and consolidated lists of *Legal Research Topics in British and Commonwealth univs.*, *Univ. of London Legal Series*, library publications: No. 1, *A Survey of Legal Periodicals Union Catalogue of Holdings in British Libraries* (and edn, 1957, 17s. 6d.); No. 2, *Union List of Commonwealth Law Literature in Libraries in Oxford, Cambridge and London* (1952, 0/p.), No. 3, *Union List of United States Law Literature in Libraries in Oxford, Cambridge and London* (1954, 12s. 6d., 0/p.), No. 4, *Union List of Air Law Literature in Libraries in Oxford, Cambridge and London* (1956, 12s. 6d.). Jointly with the U.K. National Cttee. of Comparative Law: *A Bibliographical Guide to the Law of the U.K., the Channel Islands and the Isle of Man* (1956, 30s.; interleaved copies, 35s.). *A Manual of Legal Citation—Pt. I: The British Isles* (1959, 21s.); *Pt. II: The Commonwealth* (1960, 21s.). In co-operation with the American Assn. of Law Libraries: *Index to Foreign Legal Periodicals* (1960—3 quarterly issues with annual cumulation, annual sub. £9).

## THE YEAR 1961

## Statistics

Students admitted: 241 (all postgraduate).  
Of these, 162 came from other countries.

(Countries from which largest numbers came:  
India, 36; U.S.A., 27; Iraq, 16; Canada, 15)  
Other persons using the inst. during the year,  
156

[Information compiled as at 1/8/62]

## INSTITUTE OF ARCHÆOLOGY

Founded 1934

Postal Address: 31-34 Gordon Square, London, W.C.1, England

Telephone: Euston 6052

CHAIRMAN OF MANAGEMENT COMMITTEE—S. W. WOOLLEDGE, CBE, DSc, FRS

U.K.—ENGLAND (LONDON)

DIRECTOR—Professor W. F. GRIMES, CBE, MA Wales, FSA  
 SECRETARY AND REGISTRAR—E. PYDDOKE, FSA

## TEACHING STAFF

[†=Part-Time]

Archaeological Drawing and Surveying	Cornewill, I. W., PhD	Lectr.
Stewart, H. M., BA	Waechter, J. d'A., PhD Camb., FSA	Lectr.
Archaeology	Indian Archaeology	
Grimes, W. F., CBE, MA Wales, FSA	Codrington, K. de B., MA Camb.	†Prof.
Prof., Dir. of Inst.		
Archaeology of Roman Provinces	Prehistoric European Archaeology	
Frere, S. S., MA Camb., FSA	Evans, J. D., MA PhD Camb., FSA	Prof.
	Hodson, F. R., MA PhD	Lectr.
Conservation of Archaeological Materials	Western Asiatic Archaeology	
Gedye, Ione, BA	Lloyd, S. H. F., CBE, Hon. MA Edu., FBA, FSA	Prof.
Hodges, H. W. M.	Parker, Barbara, FSA	†Lectr.
Environmental Archaeology	Parr, P. J., MA, FSA	Lectr.
Zeuner, F. E., PhD Bres., DSc, FSA		

Lecturer in Archaeological Photography: Cookson, M. B.

## GENERAL INFORMATION

Large specimen collections provided for study of archaeol. of much of old world, incl. notably Petrie Palestinian collection.

LIBRARY Over 8000 books, some 3500 pamphlets and 8600 vols. of periodicals on archaeol. and allied subj., available to students and inst. members.

FIRST DEGREES. No courses provided for first degrees.

HIGHER DEGREES (of Univ. of London) MA, MSc and PhD in archaeol. subj.,

DIPLOMAS. Awarded by Univ. of London. Normally 2 yrs.; academic postgrad. dipl. in

European, Indian, prehistoric, Roman archaeol. and (normally 3 yrs.) western Asiatic archaeol. Awarded by inst. 2 yrs. postgrad.: conservation of historical monuments

OTHER COURSES. Tuition is also provided in archaeol. technique, incl. excavation methods, repair and preservation of archaeol. objects, craftsmanship, surveying and photography. Courses of lectures, open both to students and to the general public, are given in a wide range of archaeol. subj.,

PUBLICATIONS. *Handbook* (free); *Bulletin* (10s.); *Occasional Papers*.

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1961-62  
 (as at the beginning of the academic year)

	Full-Time	Part-Time	Occasional
Men . . .	20	15	10
Women . .	40	10	12
Total . . .	60	25	22

Included in the figures above are:—

Postgraduate students, 64.

New admissions (dipl. and higher degree), 23  
 Students from other countries, 39. (Countries from which largest numbers came: U.S.A., 8; Australia, 4)

HIGHER DEGREES AWARDED (by Univ. of London) (1960-61). PhD, 2.

DIPLOMAS AWARDED (by Univ. of London) (1960-61). Prehist. archaeol., 1; European archaeol. (prehist.), 2

*[Information compiled as at 10/7/62]*

## INSTITUTE OF CLASSICAL STUDIES

Founded 1953

Postal Address: 31-34 Gordon Square, London, W.C.1, England

Telephones: Office, Euston 7696; Library, Euston 7697

CHAIRMAN OF MANAGEMENT COMMITTEE—P. S. NOBLE, MA *Aberd.* & Camb., Hon. LL.D. *Aberd.*

DIRECTOR—Professor E. G. TURNER, MA Oxon., FBA

SECRETARY—ALSCIA M. TOTOLOS, BA Syd.

LIBRARIAN—JOYCE E. SOUTHAN, BA *Manx*

## GENERAL INFORMATION

The objects of the inst. are to promote the advancement of the study of the classics; to provide opportunities for contacts between scholars in the classical field, both within the univ. and from other centres of learning at home and abroad; and to arrange facilities for advanced study and res. and for the trg. of postgrad. students in classics and cognate subjects.

The Hellenic and Roman socs. are associated with the inst. Both are housed in the same premises, and their libraries are complementary to each other. The combined library numbers 36,000 vols. (including over 200 current periodicals) and forms a first-class tool of classical res.

**FIRST DEGREE** No courses provided for first degrees

**ADMISSION** Free admission is granted to

teachers and postgrad. students of London Univ. and of univs. and univ. colls. in the U.K. and Commonwealth, and to sr. scholars from elsewhere by invitation.

The inst. has no students except those registered in other schs. of the univ., and teaching at the seminars is done by teachers in those schs.

**FEES** For teachers and postgrad. students from outside the Commonwealth the fees are 10s. for 3 mos., £1 for 6 mos., £2 for a yr.

**POSTGRADUATE AWARDS** open to grads. of other univs. see p. 910.

**PUBLICATIONS** *Prospectus* (free); *Annual Report*; *Bulletin* (annual, July, £1) incl. a register of advanced res. in progress, *Bulletin Suppléments* (various).

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

Men . . .	29
Women . . .	16
Total . . .	45

All students are postgraduate and in fac. of arts.

*Included in the figures above are —*

New admissions, 23

Students from other countries, 13.



## INSTITUTE OF COMMONWEALTH STUDIES

Founded 1949

*Postal Address:* 27 Russell Square, London, W.C. 1, England

*Telephone:* Langham 5876

CHAIRMAN OF COMMITTEE OF MANAGEMENT—Professor C. H. PHILIPS, MA Litt, PhD

DIRECTOR—Professor K. E. ROBINSON, MA Oxon., FRHistS

SECRETARY—T. E. SMITH, OBE, MA Camb.

ASSISTANT SECRETARY—PATRICIA M. DEYONALD, BA Lond

LIBRARIAN—Mrs. VALERIE BLOOMFIELD, BA Lond

RESEARCH FELLOWS—D. AUSTIN, BA Lond, Mrs. ELIZABETH M. CHILVER, MA Oxon., W. K. JACKSON, BA Natl.; L. W. JONES, BA Camb., T. H. SILCOCK, MA DPhil Oxon., D. P. J. WOOD, MA PhD Camb.

### GENERAL INFORMATION

The inst. was estab'd in 1949 to promote advanced study of the Commonwealth. Its field of interest is primarily, but not exclusively, that of the soc. scs. It encourages collaboration at postgrad. level between workers who are employing different techniques of res. in the study of Commonwealth problems. It provides a meeting-place both for postgrad. students and members of the academic staffs of univs and res. instns. in the U.K. and overseas countries of the Commonwealth. Seminars are held for advanced students during the univ. terms. Admission to them is on recommendation by supervisors of studies or at the discretion of the dir. Meetings on sp. topics are arranged during univ. terms for members of staff and other specially invited persons.

**LIBRARY.** Approx. 35,000 vols and papers. The library does not set out to compete with the great collections but selects material of sp. value for res. and postgrad. teaching. It places particular emphasis upon primary material relating to govt., econ. and soc. devel., race relns. and demography, and with this object it acquires official publcs., stats., guides to archives, etc., of the U.K. and other Commonwealth countries. It is also acquiring a good selection of secondary

works on the devel. of the Commonwealth during the past century. It subscribes to periodicals of significance for the study of the Commonwealth.

A strong biblig. section is being built up by the acquisition of bibligs., indexes to periodical lit., guides and indexes to official publcs. and parliamentary papers of the U.K. and Commonwealth countries, and similar aids to res. A biblig. of bibligs. in the library and a register of deposited theses in London and other U.K. univs. are maintained.

**ADMISSION.** The following persons may be admitted to the inst: grad. res. workers and members of the academic and sr. admin. staff of the Univ. of London and of other univs. and univ. colls. in the U.K. and Commonwealth, other persons approved by the dir. or cttee. of management. Forms of applcn. may be obtained from the asst. secretary.

**FIRST DEGREE.** No courses provided for first degrees.

**PUBLICATIONS.** The inst. publishes an *Annual Report* and a series of *Commonwealth Papers*, and issues a series of *Reprints*; a *Guide to Resources for Commonwealth Studies* and a *Union List of Commonwealth Newspapers* have also been publd.

### THE YEAR 1961

Persons admitted to the inst: 304 (106 univ. teachers, 120 students working for higher degrees, 78 others)

Univ. teachers, students and others from other

countries, 173. (Countries from which largest numbers came: U.S.A., 39; Nigeria, 25; India, 16; W. Indies, 14).

[Information compiled at 1/8/62]

## INSTITUTE OF EDUCATION

Founded 1902

Postal Address: University of London Institute of Education,  
Malet Street, London, W.C.1, England  
Telephone and Telegrams: Museum 1500

CHAIRMAN OF COUNCIL—General Sir RONALD ADAM, GCB, DSO, OBE

DIRECTOR—H. L. ELVIN, MA Camb

DEAN—Professor W. R. NIBLITT, BA *Brist.*, BLitt *Oxon.*SECRETARY—C. W. DIXON, MA *Durb.*, BLitt *Oxon.*, PhD

DEPUTY SECRETARY—KITTY M. EGAN, BA

REGISTRAR—CLARE J. HENRY

LIBRARIAN—D. J. FORKETT, MA, FLA

ADVISER TO TEACHERS—D. J. JOHNSTON, BA

ADVISER TO OVERSEA STUDENTS—S. J. WORSLEY, DSO, MC, TD, Hon. MA *Oxon.*, Hon. LL.D. *Exc.*, BA

## CONSTITUENT DEPARTMENTS

Dept. of Education, King's College, Strand,  
W.C.2 (Hd. of Dept., Prof. A. V. JUDGES, BA  
DSc(Econ)). Training Dept., Goldsmiths' Col-

lege, New Cross, S.E.14 (Warden, Hd. of Trg.  
Dept. & Sch. of Art (teacher trg. course): D. R.  
CHESTERMAN, MSc PhD).

## CONSTITUENT COLLEGES

[together with names of Principals]

Avery Hill Training Coll., Eltham, S.E.9 (Mrs. Kathleen E. Jones, MA BLitt *Oxon.*); Battersea Trg. Coll. of Domestic Science, 58 North Side, Clapham Common, S.W.4 (Florence F. Laidler, MSc *Wales*); Borough Road Coll., Isleworth, Middx (K. E. Priestley, MA *Oxon.*); Brighton Coll. of Art & Crafts (teacher trg. course), Grand Parade, Brighton, 7 (R. T. Cowen); Brighton Trg. Coll., 3 Eastern Tce., Brighton, 7 (A. Seward, MSc *Sheff.*); Cavendish Square Trg. Coll., 11 Cavendish Sq., W.1 (Mother Mary Fidler, BA); Chelsea Coll. of Physical Education, Carlisle Rd., Eastbourne (Audrey J. Bambara); Christ Church Coll., Canterbury, Kent (Rev. F. Mason, MA Camb., Hon. LL.D. *Malaya*); Coloma Coll., Wickham Court, West Wickham, Kent (Mother Mary Benignus); Dartford Coll. of Physical Education, Dartford Heath, Kent (Margaret J. Buckenfield, MA); Digby Stuart Coll., Convent of the Sacred Heart, Southampton, S.W.15 (Mother Mary K. Richardson, BA); Eastbourne Trg. Coll., Darley Rd., Eastbourne (Florence E. Ward, MSc *Leeds*); Froebel Educational Institute, Grove House, Southampton Lane, S.W.15 (Molly Bressley, BA *Bern.*); Purzdown Coll., Welham Rd., S.W.17 (Catherine Fletcher, BA); Garnett Coll., 83 New Kent Rd., S.E.1 (C.

Jameson, MEd *Durb.*, BSc), Gipsy Hall Trg. Coll., Kenry House, Kingston Hill, Kingston, Surrey (Frances D. Batstone, BA); Hornsey Coll. of Art & Crafts (teacher trg. course), Dept. of Teacher Trg., Western Rd., Wood Green, N.22 (Hd. of Dept.—J. M. Townley); Marn Assumpta Trg. Coll., 23 Kensington Sq., W.8 (Mother Augustine May, BA); Marn Grey Coll., 300 St. Margaret's Rd., Twickenham, Middx (Beatrice E. Deyton, BA *Oxon.*, MA); National Society's Trg. Coll. of Domestic Subjects, Berridge House, Fortune Green Rd., N.W.6 (Kathleen M. Perry, MSc); Nonington Coll. of Physical Education, Nonington, nr. Dover, Kent (Elmor M. Himes); Philippa Fewett Coll., 94-100 Lougham Court Rd., S.W.16 (Ailston C. Shrubsole, BA); Rachel McMillan Coll., Creek Rd., Deptford, S.E.8 (Edith M. Fuddelphat); St. Gabriel's Coll., Cormant Rd., Camberwell, S.E.5 (Mary Atkinson, MA *Durb.*); St. Katherine's Coll., Tottenham, N.17 (Kathleen H. Nahapiet, BA *Calif.*, MA *Bern.*, PhD *Nott.*); Coll. of St. Mark & St. John, Kang's Rd., Chelsea, S.W.10 (A. A. Evans, MA *Bern.*); St. Mary's Coll., Strawberry Hill, Twickenham, Middx. (Very Rev. K. Cronan, CBE, MA); Seaford Trg. Coll. of Housecraft, Cricketfield Rd., Seaford,

U.K.—ENGLAND (LONDON)

Sussex (Mildred V. Daniel, BSc), Shorsted  
Trg. Coll., Cooper's Hill, Englefield Green,  
Egham, Surrey (E. F. Marshall, MA Camb.),  
Sadney Webb Coll., 130 Horseferry Rd., S W 1  
(Rosemary Beresford, MA Camb.), Southlands  
Coll., 65 Wimbledon Parkside, S W 19 (Myra S.

Johnson, BA Leeds), Stockwell Coll., The Old  
Palace, Bromley, Kent (Rosemary F. Carr, BSc),  
Trent Park Coll., Barnet, Herts (F. R. Thakston,  
BSc), Whitelands Coll., West Hill, Putney,  
S W 15 (Marian M. Saunders, MA Camb.)

## CENTRAL INSTITUTE TEACHING STAFF

Professors  
Lawwerys, J. A., DSc *Ghent*, DLat, FRIC  
(Compar. E.)

Lewis, L. J., BSc *Wales*  
(E. with sp. ref. to E. in tropical areas)  
Noblett, W. R., BA, *Brist.*, BLitt *Oxon.* (Educn.)  
Pattison, B., BA *Durh.*, PhD *Camb.*, MA (Educn.)  
Peters, R. S., BA *Oxon.* & *Leid.*, PhD  
(Philos. of E.)  
Vernon, P. E., MA PhD DSc (Educn. Psychol.)

Readers  
(Sociol. of E.)  
Gardner, Dorothy E. M., MA *Leeds*  
(Child Devel.)

James, H. E. O., MSc BA *Manc.* (Psychol.)  
Westman, Sophia, PhD *Manc.*, MA,  
FRHistS (Educn.)

Senior Lecturers  
Baron, G., PhD BA *MEd Leeds*  
(Contemp. Brit. Educn. Instns.)  
Batten, T. R., MA *Oxon.*, PhD  
(E. in Trop. Areas)

Britton, J. N., MA (Engl.)  
Burston, W. H., MA *Brist.* (Hist.)  
Cleugh, Mary F., PhD BA  
(Teaching of Educationally Subnormal  
Children)

Dalry, C. T., BSc (Maths.)  
Davis, Joan A. M., MA  
(on leave) (Curric. of Sec. Mod. Sch.)  
Elliott, A. V. P., MA *Camb.* (Engl.)  
Field, D. (Art & Crafts)

Henderson, J. L., MA *Oxon.*, PhD  
(Hist. & Internat. Affairs)  
Hillard, F. H., BD PhD (Relig. E.)  
Hodgson, Mrs. Frances M., MA (Mod. Langs.)  
Honeybone, R. C., MA (Geog.)

King, W. H., BSc MA PhD (Educn.)  
Lee, Doris M., MA PhD (Educn. Psychol.)  
Lowarch, W., MA *Camb.* (Phys. Sci.)  
Neuberg, K., MA *N Z* (Philos. of E.)  
Oakeshott, Mrs. Edna M., PhD BSc *Manc.*  
(Educn. of Maladjusted Children)

Penfold, Mrs. Daisy M., MSc AM *Col.* (Stats.)  
Reid, Mrs. Frances M., BSc PhD *Bern.*  
(on leave) (Biol. Sci.)  
Schiller, L. C., CBE, MC, MA *Camb.* (Jr. Sch.)  
Simpson, W. K., MusBac *Durh.*, FRCO (Music)

Warden, Winifred M., MSc *Bern.*, FLSc  
(Health E.)

Lecturers  
Andry, R. G., MA *Meth.*, PhD  
(Educn. Psychol.)  
Baggott, Mrs. Doris I. (E. in Trop. Areas)

Barnard, G. L., MA PhD (on leave) (Engl.)  
Broughton, G., BA (Engl.)  
Bryant, Margaret E., MA *Camb.* (Hist.)  
Cannon, Mrs. Charman, BSc(Soc.)  
(Educn. Sociol.)

Cass, Joan E. (Child Devel.)  
Chandler, Constance M., BSc (Phys. Sci.)  
Clarke, Mrs. Julia H., BSc MA PhD (Gen. Sci.)  
Collins, Gertrude A. (Music)

Coppen, Mrs. Helen E., BSc *Pret.* (New Media)  
Dobbs, J. P. B., BA *Wales*, MEd *Durh.* (Music)  
Emmett, Jocelyn A., MSc *Wit.*  
(Speech & Drama)

Ewins, P. C. C., MA *Wales* (E. in Trop. Areas)  
Gabriel, Olive M. (Art)  
Gilbert, M., MA *Camb.*, BA BSc(Econ.)  
(Mod. Langs.)

Gorsuch, J. J. P. W., BSc (Biol. Sci.)  
Gould, Doris (Music)  
Gray, Mrs. Sylvia M., BA *Pret.*  
(Teaching of Educationally Subnormal  
Children)

Harrison, K. M., BSc *Lea* (Audio-Visual Aids)  
Hill, N., BA *Manc.* (Mod. Langs.)  
Hirst, P. H., MA *Camb.* (Philos. of E.)  
Hodge, Barbara J., MA *Camb.* (Classics)

Holland, Louisa (Curric. of J. Sch.)  
Holmes, B., BSc PhD (Compar. E.)  
Hursey, J. G., BA *Camb.* (Music)  
Langdon, Mrs. Eleanor M. (Child Devel.)  
Long, Mrs. Iris L. M., MA (Geog.)

Loveridge, A. J., CMG, OBE, MA *Camb.*  
(E. in Trop. Areas)  
Manshak, Mildred D., BA *Calif.* & *Leid.*,  
PhD (Educn. Psychol.)

Martin, Nancy C., MA (Engl.)  
Milburn, S., MA *Oxon.*  
(on leave) (E. in Trop. Areas)

Moore, Mrs. Edith M., MA (Engl.)  
Newland, W. R. (Art & Crafts)  
Noonan, J. A., BA DPhil *Oxon.* (Engl.)  
Perry, L. R., BA PhD (Hist.)

Pratt, S. A. J., BA *Oxon.* (E. in Trop. Areas)  
Roberson, B. S., BSc(Econ.) MA (Geog.)  
Rosen, H., BA (Engl.)  
Russell, C. V., BA (Mod. Langs.)

Sharwood Smith, J. E., MA *Camb.* (Classics)  
Spicer, J. G., BA *Oxon.* (E. in Trop. Areas)  
Spencer, Ann O. (Art)

Tregear, P. S., BA (E. in Trop. Areas)  
Waddington, Mary, MA (Child Devel.)  
Williams, R. E., MA *Oxon.*, MSc *Lea* (Maths.)  
Wilson, J., MA *Glas.* (E. in Trop. Areas)

Wilson, J. M., CBE, BSc (E. in Trop. Areas)  
Woolrich, Beatrice A., BA (Engl.)

Wrigley, J, BSc MEd *Masc.*, PhD *Beif*  
(on leave) (Maths.)  
Research Staff  
Downing, J A, BA  
(Problems of Learning to Read)  
Handley, C B, BSc MB ChB *Masc.*  
(Child Devel.)  
(Child Devel.)  
Moore, T W, BA  
Assistants  
Batten, Mrs Madge, BA (E. in Trop. Areas)  
Jones, Barbara, BSc  
(Problems of Learning to Read)

Visiting Staff  
Akehurst, R D. (Bookbinding)  
Breed, Hilda A. (Weaving)  
Fennell, Mrs. Margery (Health E)  
Foster, A W A. (Music)  
Fowles, J A. (Lab. Arts)  
Honeybone, Mrs Dorothy F, BA (Geog.)  
O'Shaughnessy, Mrs. Edna, BA *Rand.*  
BPhil *Oxoe* (Child Devel.)  
Shields, R W, BA *Leeds*, PhD  
(Educn. of Maladjusted Children)  
Williams, R A. (Lab. Arts)

## GENERAL INFORMATION

London Day Training Coll. was founded by the L.C.C. in 1902 as an instn in connexion with the univ. working under the regns. of the bd of educn. for the trng. of teachers. The first principal (1902-22) was Prof. (later Sir) John Adams. From 1909 to 1932 the coll. was a sch. of the univ. in pedagogy, and as such was governed by a coll. council composed equally of reps. of the L.C.C. and of the senate. In 1932, as the result of an agreement between the bd of educn. the L.C.C. and the univ., the coll. was transferred to the educn. and financial control of the univ., and its title was changed to 'Univ. of London Institute of Education'. The inst. was administered as a 'central activity' of the univ. by a delegacy apptd. by the senate, and composed of reps. of that body, of the L.C.C. and of the teaching staff, together with certain co-opted members. In 1938 the inst. was transferred to the new bldg. on the Bloomsbury site provided by a sp. grant from the council to the univ.

In accordance with the recommendation of the McNair cttee. on the trng. of teachers and youth leaders, the Univ. of London Inst. of Educn. now comprises the 'central activity', two constituent depts. and 34 constituent colls. The inst. is the area trng. organization for the counties of E. Sussex, Essex (except Mid-Essex and N.E. Essex), Kent, London, Middlex., Surrey and the county boroughs of Brighton, Canterbury, Croydon, Eastbourne, E. Ham, Hastings, Southend and W. Ham. Its purpose is to advance the knowledge and practice of educn. by res., to encourage the univ. study of educn., and to improve, co-ordinate and extend the provision for the trng. of teachers within the area.

Students are trained under the Regns. for the Training of Teachers (H.M.S.O., Kingsway, London, W.C.2) for teaching in all types of sch. In addition to the 1-yr. initial profess. course the central inst. provides, for qualified teachers and others, a number of courses leading to dipl. and higher degrees.

Particulars of the courses provided in the constituent depts. and colls. may be obtained from the sec. of the inst.

**LIBRARY** The inst. library houses about 75,000 vols. and is an important centre of pedagogical res., with special collections on Commonwealth and comparative educn.; about 1000 periodicals are taken annually.

**FIRST DEGREE.** No courses provided for first degrees.

**HIGHER DEGREES** (of Univ. of London). At central inst. MA and PhD in educn.

**DIPLOMAS, CERTIFICATES, ASSOCIATESHIPS, ETC.** (at central inst.) 1 yr.—postgrad. cert. in educn., art teacher's cert., music teacher's cert., sp. overseas profess. cert. course, dipl. in child devel., course in educn. of children in the jr. sch., dipl. in the teaching of Engl. as a foreign lang., dipl. in the educn. of maladjusted children, dipl. in the teaching of educationally subnormal children, dipl. in religious educn., dipl. in the content & methods of health educn., dipl. in theory & practice of radio-visual aids, associateship of the inst., academic dipl. in educn. 2 yrs. (pt.-time evg. courses)—cert. in theory & practice of jr. sch., cert. in teaching of maths., cert. in teaching of sci., cert. in theory & practice of sec. sch., cert. in teaching of Engl.

**FEES** Annual tuition fees: 1-yr. courses, £75; music, £112.10s., 2-yr. evg. courses, £30 p.a.

**RESIDENCES.** College rooms: 12-15 and 35-37 Bedford Way, London, W.C.1, 16 Eadsleigh St., London, W.C.1, 35 Gower St., London, W.C.1, 25-26 Webster Square, London, W.C.1. Places available for 105 women and 69 men.

**PUBLICATIONS** *Handbook* (annual), *Annual Report*, *Yearbook of Education* (publd. by Evans Bros., Ltd., in assocn. with this inst. and Teachers Coll., Columbia Univ.) Obtainable from inst.: *Oversea Quarterly* and *African Women* (supplement), twice p.a.; *Community Development Bulletin*, once a quarter; *Studies & Reports*, Nos. 1-XIV; *Studies in Education*, Nos. 1-X; *Studies & Impressions*; *Handbook for Geography Teachers*, *Handbook for History Teachers*, *External Exams. in Secondary Schs.*

## THE YEAR 1961

## Statistics (Central Institute)

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	508	317
Women	529	148
Total	1037	465

Included in the figures above are —

Postgraduate students, 1350 (approx.).

New admissions, 1200 (approx.).

Students from other countries, 435. (Countries from which largest numbers came: India, 59; Nigeria, 42; Canada, 20; Hong Kong, 18).

DEGREES AWARDED (by Univ. of London) (1960-61). *Educ.*: PhD, 6; MA, 10.

DIPLOMAS AWARDED (1960-61). *By Univ. of London*: academic dipl. in educn., 76. *By Inst.*: educn. of maladjusted children, 28; teaching of educationally subnormal children, 21; Engl. educn. thought & practice, 11; health educn., 25; teaching of Engl. as a foreign lang., 26; religious educn., 5.

CERTIFICATES AWARDED (1960-61). *By Univ. of London*: postgrad. cert. in educn., 350. *By Inst.*: art teacher's, 56; music teacher's, 57; professional cert., 33; Royal Soc. cert. health visitors, 38; teaching of sci., 27; association of inst., 25; religious educn., 13; theory & practice of yr sch., 26; teaching of maths., 21; teaching of Engl., 10.

[Information compiled as at 1/8/62]

## INSTITUTE OF GERMANIC LANGUAGES AND LITERATURES

Founded 1950

Postal Address: 29 Russell Square, London, W.C.1, England

Cables and Telegrams: Germanic Institute, Russell Square, London

Telephone: Langham 2711

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor ELIZABETH M. WILKINSON, PhD

DIRECTOR—Professor F. NORMAN, OBE, MA, FSA

SECRETARY/LIBRARIAN—K. G. KNIGHT, MA PhD Cand.

### GENERAL INFORMATION

The objects of the inst. are to promote the advancement of the study of Germanic langs. and lit., to provide opportunities for contacts between scholars in the Germanic field, both within the univ. and from other centres of learning at home and abroad, and to arrange facilities for advanced study and res. in the relevant subjects.

LIBRARY. A reference library (more than 18,000 vols.) provides bibliographical and lexicographical material indispensable for res. and critical edns. of German, Dutch and Scandinavian authors; 62 periodicals are taken. Sp. collections: (1) Pischel collection of 2212 vols. of lit. and early edns. of German classical and romantic writers,

and of translations from German; (2) library of the English Goethe soc., consisting of 373 vols. of Goetheana; (3) Gundolf collection of MS. material.

FIRST DEGREE. No courses provided for first degrees.

ADMISSION. Membership is granted, without fee, to full-time teachers in depts. of Germanic langs. and lit. of the univ., postgrad. students engaged on res. in any of these depts., sr. scholars from other univs., and other persons approved by the dir. or the cttee of management, no under-grads are admitted except for spec. purposes.

## INSTITUTE OF GERMANIC LANGUAGES AND LITERATURES 1089

such as attendance at seminars or courses held at the inst.

There are no registered students, or teaching staff.

PUBLICATIONS *Annual Report*; *Union List of*

*Periodicals dealing with Germanic Langs. & Ltrs.* (comprises holdings of the inst. of the univ. library and of the schs. and insts. of the Univ. of London); *Schiller Bicentenary Lectures*; *Schiller in England 1787-1960*; a *Bibliography*; *Theses in Germanic Studies*

### THE YEAR 1961

The inst. continued to act as a centre of postgrad studies and as a meeting-place for scholars in the Germanic field. 10 colloquia were held

during the yr., of which a number were opened by scholars from abroad

[Information compiled as at 10/7/62]

## INSTITUTE OF HISTORICAL RESEARCH

Founded 1921

Postal Address: Senate House, London, W.C.1, England

Telephone: Museum 0272-3

DIRECTOR—Professor F. WORMALD, LittD MA Camb., FBA, FSA

SECRETARY AND LIBRARIAN—A. T. MILNE, MA

### GENERAL INFORMATION

The Inst. of Historical Research is one of the central instns. of the univ. administered by a cttee apptd annually by the senate. The inst. is primarily designed for trg. of postgrad students in the methods of historical res., and for the use of visiting scholars while working in London. It consists of a systematically planned series of seminar libraries, equipped with printed sources of British and foreign hist., guides to archives, bibliogs and other essential works of reference. The cttee. may admit to use of the inst. any teacher of hist. in the univ. and his res. students; also teachers and res. students from other univs. Instrcn. is undertaken by the dir. and members of the hist. cttee. of the schs. of the univ. It is normally carried on in (1) a series of prelim. courses dealing with the sources of British, Imperial and foreign hist., introductions to work in archives and paleography classes; (2) a series of seminars dealing with sp. historical subjects. In

addn. the inst. is active in promoting the organization of historical studies in general, in undertaking bibliographical and other investigations, some results of which are publd in its *Bulletin*, and in arranging conferences. Besides res. projects of its own, the inst. accommodates several associated enterprises, the largest being the Hist. of Parliament.

LIBRARY. 38,435 vols of books, periodicals and pamphlets; also maps, prints and drawings, facsimiles and microfilms

PUBLICATIONS. *Annual Report*; *Bulletin* (twice a yr., sub. 25s.) with annual supplements recording historical res. for univ. degrees in the U.K., and occasional sp. supplements. *Victoria Hist. of the Counties of England* (general edtor: R. B. Pugh, MA Oxon., FSA), price 5 6s. or more per vol. The univ. publicn., *Sch. of Hist. & Inst. of Historical Res.*, serves as a handbook to the inst.

### THE YEAR 1961

ADMISSIONS AND COURSES. The no. of persons admitted to use of the inst. was 1162, incl. 408 students reading for higher degrees. 48 postgrad courses and seminars in hist. were offered.

CONFERENCES. In addn. to the annual Anglo-American conference of historians, there were several evg. meetings addressed by visiting scholars.

[Information compiled as at 1/8/62]

## SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES

Founded 1915 as a department of King's College, London; since 1932 a  
'Central Activity' of the University

*Postal Address:* University of London, School of Slavonic and  
East European Studies, London, W C.1, England

*Cables and Telegrams:* University London Slavonic

*Telephone:* Museum 9782-3

CHAIRMAN OF COUNCIL—Professor F. NORMAN, OBE, MA, FSA

DIRECTOR—G. H. BOLSOVER, OBE, MA *Litt.*, PhD

SECRETARY—R. G. H. WHITWORTH, BA

LIBRARIAN—H. SCHUBERT, PhD *Leip.*, FLA

### TEACHING STAFF

<b>Bulgarian</b>		<b>Polish</b>	
Pinto, V. de S., Jr, MA <i>Oxon.</i> , PhD	Lectr.	Pietrkiewicz, J., MA <i>St. And.</i> , PhD	Lectr.
<b>Czech and Albanian</b>		<b>Roumanian</b>	
Mann, S. E., MA <i>Brist.</i>	Reader	Teppe, E. D., MA <i>Oxon.</i>	Lectr.
<b>History, Central European</b>		<b>Russian</b>	
Carsten, F. L., DPhil <i>Oxon.</i>	Masaryk Prof.	Hare, Hon. R., MA <i>Oxon.</i>	(R.Lit.) Prof.
Skwarczyński, P., LL.D. <i>Lwow</i> , PhD	Lectr.	Malnick, Beitha, BA <i>Cambr.</i> , PhD	Reader
<b>History, Economic and Social</b>		Stokes, A. D., MA PhD <i>Cambr.</i>	Lectr.
Watimer, Doreen, OBE, BA <i>Oxon.</i> , PhD	(Eastern Europe) Reader	Norman, A., BA <i>Oxon.</i> , MA	Lectr.
Nove, A., BSc(Econ)	(Jointly with L.S.E.) (Russian) Reader	Swoboda, V., MA (R. & Ukrainian)	Lectr.
		Dunham, Mrs. Geragette, BA PhD	Asst. Lectr.
		Drage, C. L., BA <i>Oxon.</i> , MA	Asst. Lectr.
		Ericsson, Mrs. Kyrr, DPhil <i>Berl.</i>	Lectr.
<b>History of Danubian Lands</b>		<b>Russian Economic History</b>	
Auty, Phyllis, MA <i>Blatt Oxon.</i>	Lectr.	Crisp, Mrs. Olga, BA PhD	Lectr.
<b>History, Russian</b>		<b>Serbo-Croat</b>	
Seton-Watson, G. H. N., MA <i>Oxon.</i>	Prof., Hd. of Dept	Javarek, Miss Vera, BA PhD	Lectr.
Kepp, J. L. H., BA PhD	Lectr.	<b>Slavonic Philology, Comparative</b>	
<b>Hungarian</b>		Auty, R., MA <i>Cambr.</i> , DrPhil <i>Mün.</i>	Prof.
Cushing, G. E., MA <i>Cambr.</i> , PhD	Lectr.	Loesung, H., BA <i>Manc. &amp; Lond.</i> , PhD	Lectr.

### GENERAL INFORMATION

Established at King's Coll., 1915. Since Aug. 1932 a dept. of the univ. in arts.

**LIBRARY.** 75,000 vols.

**ADMISSION.** See p. 1066 and Appendix III. A student entering the sch. as an undergrad. will

normally be required to have passed in a G.C.E. exam. at advanced level in the slavonic lang. of his choice, and 1 or 2 other subj.

**FIRST DEGREE** (of Univ. of London). The sch. provides 3-yr. courses for BA (gen. and hon.)

# SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES 1091

degrees of the Univ of London in Bulgarian (BA (hon)), Czechoslovak, Hungarian, Polish, Roumanian, Russian and Serbo-Croat lang and lit; for BA (hons.) in Russian, central European and south-eastern European regional studies; and in hist., branch VI (mediev & mod. hist., with spec reference to eastern Europe)

HIGHER DEGREES (of Univ of London). MA in all the above langs, and lits, and in regional studies of the countries concerned; also in hist. PhD in hist and in slavonic and E. European subjts

RESEARCH. Candidates with appropriate qualifs. accepted for res. not leading to degrees of Univ. of London.

Fees £6 to £21 for occas students of lang Undergrada. (incl union membership), £35 p a; postgrad, £40 p.a.

PUBLICATIONS. *Slavonic & East European Review* (twice p.a.). *Prospectus* (each session). *Director's Report* (each session).

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	86	33
Women . . .	35	40
Total . . .	121	73

Included in the figures above are:—

Students registered for univ. degrees, 120 full-time (85 m, 35 w.), 29 pt-time (21 m, 8 w)

Postgraduate students, 30

New admissions, 30.

Students from other countries, 10 (Country from which largest number came: Canada, 5).

DEGREES AWARDED (by Univ of London) (1960-61) Arts: BA hons, 36.

[Information compiled as at 1/8/62]

## WARBURG INSTITUTE

Incorporated 1944

Postal Address: Woburn Square, London, W.C.1, England

Cables and Telegrams: Warburg Institute, London, W.C.1

Telephone: Langham 9663-8

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor EDNA FURDGE, MA Lit., DLit

DIRECTOR—Professor E. H. J. GOMBRICH, MA Oxon., PhD Vienna, FBA, FSA

SECRETARY—ANNE M. MEYER

LIBRARIAN—O. KURZ, PhD Vienna

CURATOR OF PHOTOGRAPHIC COLLECTION—Mrs. ENRIQUETA E. FRANKFORT, PhD

## TEACHING STAFF

[†=Part-Time]

**History of Art**  
Buchthal, H, PhD Hamburg, FBA  
Ertinger, L. D., PhD Halle  
Swarzenski, P. T. J., PhD Bonn

**History of the Philosophy of Science**  
Prof. Bartley, W. W., AM Harv., PhD Lectr.

**History of the Renaissance**  
Yates, Frances A., MA Reader

**History of the Classical Tradition**  
The Director

**Renaissance Studies**  
Prof. Walker, D. F., DPhil Oxon. Reader

U.K.—ENGLAND (LONDON)



## GENERAL INFORMATION

The Inst. is concerned with the hist. of the classical tradition. It provides facilities for res. on the symbolism of the religions, arts and lit. of the Mediterranean civilizations (No courses provided for first degrees). The Library contains about 140,000 vols and offprints, and 1000 runs of periodicals. The Photographic Collection (about

230,000) covers the hist. and iconography of classical art in post-classical times.

PUBLICATIONS. *Annual Report*, *Studies of the Warburg Inst.*, *Corpus Platonicum Medii Aevi*, *Journal of the Warburg and Courtauld Insts.*, *Medieval & Renaissance Studies*.

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	6	1
Women	8	1
Total	14	2

Included in the figures above are:—

Postgraduate students, 16  
New admissions, 5  
Students from other countries, 6.

## NON-MEDICAL SCHOOLS

[Information compiled as at 1/8/62]

## BEDFORD COLLEGE\*

Founded 1849, incorporated 1909

Postal Address: Inner Circle, Regent's Park, London, N.W.1, England

Cables and Telegrams: Edforcoll, Northwest, London

Telephone: Welbeck 5743

PATRON—H. M. QUEEN ELIZABETH THE QUEEN MOTHER

VISITOR—The Rt. Hon. LORD ADRIAN, OM, Hon. DSc *Pace, Ovon, Harv, Lyon, Manc., Darh., John H. Belf., Wales, N. Y., Sheff., Hull, Brand, Bologna, Freib., Paris, Leic. & Lond.*, Hon. LLD *McG., St. And., Glas., Linc., Dal. & Edin.*, Hon. MD *Brussels, Louvain & Idrotr.*, MA MD Camb., FRSc, FRCP

CHAIRMAN OF COUNCIL—SIR COLIN PEARSON, CBE

PRINCIPAL—NORAH L. PINTON, BA DPhil Oxon

SECRETARY—IRENE G. SHEPPARD, BA

REGISTRAR—JEAN M. HOGGSON, BA

LIBRARIAN—DORIS BAINS, BA, FLA

BURSAR—DOROTHY G. L. WYNN CORRISS

## TEACHING STAFF

[† = Part-Time]

Botany		Chemistry	
Andus, L. J., MA PhD Camb	Hildred Carlie Prof.	De La Mare, F. B. D., MSc N.Z., PhD DSc, FRIC	Prof. Reader
Spanner, D. C., BSc PhD	Reader	Hall, D. Muriel, DSc	Reader
Sharman, B. C., PhD Leeds	Lectr.	Smith, J. W., PhD DSc, FRIC	
Rose, F., BSc PhD	Lectr.	Lesslie, Mary S., MA BSc PhD St. And., DSc	Sr. Lectr.
Bentley, Lenna R., BSc Manc., PhD	Lectr.	Trew, Violet C. G., PhD DSc	Sr. Lectr.
Turnbull, L. P., MSc N.Z.	Lectr.	Harris, Mrs. Margaret M., PhD DSc	Lectr.
Bull, A. T., PhD Nott.	Asst. Lectr.	Howlett, K. E., DSc PhD	Lectr.
Pauliner, B. M., BSc Bern.	Asst. Lectr.		

\* For women. (Men are admitted for postgraduate work).

U.K.—ENGLAND (LONDON)

Tillett, J. G., BSc PhD	Lectr.	Mountjoy, A. B., MC, MA <i>Rdg.</i>	Lectr.
Farago, Mrs Margaret E., BSc PhD	Lectr.	Vollans, Eleanor C., MA BLitt Oxon	Lectr.
	Asst Lectr.	Embleton, C., MA PhD Camb	Lectr.
Bolton, R., BSc W. Aust.	Asst Lectr.	Chisholm, M., MA Camb	Lectr.

**Classics**

Stevens, P. T., MA Oxon, PhD <i>Aberd.</i>	(Greek) Prof.	Geology	
Onions, R. B., MA Lit., PhD Camb	(Latin) Hildred Carlile Prof.	King, B. C., MSc <i>Darb.</i> , DSc Glas., PhD	Prof.
Staveley, E. S., MA DPhil Oxon.	(Anc. Hist.) Reader	Holland, C. H., BSc <i>Manc.</i> , PhD	Lectr.
	(Greek) Reader	Dunlop, Grace M., PhD Glas.	Lectr.
Healy, J. F., MA PhD Camb		Sturt, E., BSc PhD <i>Wales</i>	Lectr.
Wilkinson, Mrs Gillian A., MA Camb		Banham, P. H., BSc <i>Nott</i>	Asst Lectr.
Eden, P. T., MA Oxon.	(Latin) Lectr.		Asst Lectr.
Coldstream, N., MA Camb.	(Greek) Lectr.	German	
Lowe, J. C. B., BA Oxon.	(Latin) Lectr.	Pescoc, R., MA <i>Manc.</i> , LittD <i>Leeds</i> ,	
Baron, J. P., MA Oxon	(Latin) Lectr.	DrPhil <i>Maring</i>	Prof.
Atchison, Jean M., BA Camb	(Greek) Asst Lectr.	Walsh, M. O'C., MA	Reader
Hall, J. B., BA Camb	(Latin) Asst. Lectr.	Atkinson, Margaret E., MA	Lectr.
Littlewood, Rosemary B.	(Latin) Temp. Asst. Lectr.	Reich, Mrs Dorothy, MA	Lectr.
Quinn, T. J., BA <i>Manc.</i>	(Greek) Asst Lectr.	Ostberg, K., MA	Lectr.
		Ockendon, R. C., BA Oxon	Lectr.
		History, Medieval and Modern	
		Gieves, R. W., MA DPhil Oxon.	

**Dutch**

Wevers, T., LittD <i>Ley.</i>	(Lang & Lit) Prof.	Du Boulay, F. R. H., MA Oxon.	(Med. H.) Prof.
Hayenga, Aleta, LitDoxon <i>Aust.</i>	Lectr.		(Medic. H.) Prof.
McClure, Tams M., BA	Asst. Lectr.	Burton, I. F., BA <i>Belf.</i> , PhD	Lectr.

**Economics, see Soc. Studies****English**

Tillotson, Mrs Kathleen M., MA	BLitt Oxon. (E. Lit.) Hildred Carlile Prof.	Italian	
Hodgson, Phyllis, MA Camb., BLitt	DPhil Oxon., BA (E. Lang.) Prof.	Dionisotti, C., MA Oxon., DPhil <i>Turn</i>	Prof.
Latham, Agnes M. C., MA BLitt Oxon.	(E. Lit.) Reader	Thorne, Mrs Elizabeth, PhD	Lectr.
Ridley, M. R., MA Oxon.	†Lectr.	McNair, P. M. J., MA Oxon	Lectr.
Bruton, G. C., MA PhD <i>Birm.</i>	Lectr.	Mathematics	
Hill, D. M., BA <i>Leeds</i>	Lectr.	Eggleston, H. G., MA PhD ScD Camb.	Prof.
Martin, C. G., BSc <i>St. And.</i> , MA Oxon.	Lectr.	Clark, G. L., MA PhD Camb.	Reader
Salmon, Mrs Vivian G., MA	Lectr.	Sargent, Winifred L. C., MA	
Curgenven, J. P., MA Oxon	Sp. Temp. Lectr.	ScD Camb., PhD	Reader

**French Language and Literature**

Spink, J. S., MA <i>Leeds</i> , DUParis	Prof.	Philosophy	
Lyons, Marianne F., MA Oxon,	Reader	Acton, H. B., MA DPhil Oxon.	Prof.
DUParis	Reader	Lacey, A. R., MA PhD Camb.	Lectr.
Mayer, C. A., BA PhD	Reader	Magner, Ruby L., MA BPhil Oxon.	Lectr.
Le Breton, Mrs. Eileen, L&L <i>Lille</i> ,		Tulloch, Doreen, MA PhD <i>St. And.</i>	Lectr.
DUParis, MA	Lectr.	Kolnai, A. T., PhD <i>Vienne</i>	Visiting Lectr.
Duckworth, C. R., MA <i>Birm.</i> ,	†Lectr.	Physics	
PhD Camb	Lectr.	Richardson, H. O. W., PhD Camb.,	
Jacobs, Mrs. Eva, DUParis	†Asst. Lectr.	DSc <i>Edin.</i>	Hildred Carlile Prof.
Laycock, Mrs Blanche E., L&L <i>Paris</i>			

**Geography**

Manley, G., MA Camb., DSc <i>Manc.</i>	Prof.		
Smet, Dora K., MA PhD	Sr. Lectr.		
Timberlake, Eamon M., BSc	Lectr.		

Pancharis, L., Dott. *Filosofia Bologna*  
 Lettore, V. I., BSc PhD  
 Mansfield, R., BSc PhD  
 Hill, Nora E., BSc PhD  
 Rice-Evans, P., BSc *Notr.*, PhD  
 Barnes, J. F., BSc *Wales*  
 Thomas, R. N., BSc

Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

Stevenson, W. A. H., TD, MA BM  
 BCh Oxon. Visiting Lectr.  
 Hitchcock, Mrs. Shirley, MA *Camb.*  
 (Stats.) Asst. Lectr.

#### Social Studies and Economics

Williams, Lady Gertrude, BA *Manch.*  
 (Soc. Econ.) Prof.

McGregor, O. R., BSc(Econ)  
 (Soc. Instn.) Reader  
 Fletcher, R., BA *Brit.*, PhD (on leave) Lectr.  
 Bessie, A. R., BCom MSc (Soc. Stats) Lectr.  
 Keefe, Madeline M., BA Lectr.  
 McIntosh, Mrs. Maylene, BA *Oxon.* Lectr.  
 Shenfield, Mrs. Barbara E., BA *Brit.* Lectr.  
 Thompson, Bernice, BA Asst. Lectr.

#### Zoology

Millett, N., DSc *Sheff.*, PhD *Camb.* Prof.  
 Hesley, E. G., DPhil *Manch.*, BSc PhD Reader  
 Ince, Frances E., MSc Sc Lectr.  
 Colchrist, Barbara M., BSc PhD Lectr.  
 Dales, R. P., BSc PhD Lectr.  
 Green, J., BSc PhD Lectr.  
 Poston, A. J., MA DPhil *Oxon.* Asst. Lectr.  
 Poston, Mrs. Rosalind, BSc Asst. Lectr.

#### Physiology

Widdas, W. F., MB BS *Durham*, PhD DSc Prof.  
 Cheesman, D. F., PhD (Biochem.) Reader  
 Hilton, Mrs. Elizabeth L., MSc *Med.* Lectr.  
 Darlow, G., BSc PhD Lectr.  
 Bond, Audrey M., BSc PhD Lectr.  
 Prebble, J., PhD Lectr.  
 Wright, G. H., BSc Lectr.  
 Zingalesky, P. F., BA *Camb.* Asst. Lectr.

#### Psychology

Harding, D. W., MA *Camb.* Prof.  
 Wynn Reeves, Joan, PhD Reader  
 Lectr.  
 Lawlor, Monica, PhD Lectr.  
 Chown, Mrs. Sheila, PhD *Lev.*, BSc Lectr.  
 Brown, W. P., PhD *Aberd.* Lectr.

### ADMINISTRATIVE AND OTHER STAFF

Maintenance Officer - I. S. Sutton.  
 Radiation Protection Officer The Sec. of the  
 Coll.  
 Warden of Read Hall - Margaret Lamb, BA

N.Z. Dean of Lindsell Hall: Mary S. Leslie,  
 MA BSc PhD *St. And.*, DSc. Warden of  
 Hamover Lodge: Mrs. Evelyn Stayt. College  
 Matron: Mrs. Gladys M. Guest

### GENERAL INFORMATION

A sch. of the univ. in arts, sci. and econ.  
 Founded in 1849 by Mrs. Elizabeth Jesser Reid at  
 47 Bedford Sq., W.C.1, as an undenominational  
 coll. for women, it was incorporated by royal  
 charter in 1909; men have been admitted as  
 registered postgrad. students since 1946; moved  
 to Baker St. in 1874 and to its present site in  
 Regent's Park in 1913. From 1878 students were  
 prepared for the exams. of the Univ. of London,  
 which had just opened its degrees to women. In  
 1900 the coll. was recog. by the Univ. of London  
 in the facs. of arts and sci. and in 1912 the first  
 univ. chair tenable at the coll. was instituted in  
 maths. Further bldgs. were added after the  
 1914-18 war to accomm. increased nos. of  
 students, and in 1931 the Tuks bldg. designed  
 for several of the arts depts. and providing labs.  
 for the depts. of chem. and phys., was opened.  
 Academic devel. continued steadily, and by 1939  
 15 of the depts., and by 1948 all depts., were  
 under the headship of profs. of the univ. From  
 1939 to 1944 the coll. was evacuated to Cambridge,  
 and during this period the bldgs. in London were  
 seriously damaged by enemy action. The recon-  
 struction of the war-damaged bldgs. started in  
 1947 and was completed in April 1952.

CONSTITUTION Governed by governors and  
 council which includes reps. of the univ., the  
 L.C.C. and the coll. staff

FACULTIES AND DEANS Arts, Prof. F. R. H.  
 Du Boulay (mediev. hist.); sci., Prof. W. F.  
 Widdas (physiol.)

LIBRARY 130,000 vols. (not incl. pamphlets).

LABORATORIES Bot., chem., geog., geol., phys.,  
 physiol., psychol. and zool.

OBSERVATORY. Grub 7-in. telescope, equa-  
 torially mounted.

ADMISSION Min. age for admission, 18. In  
 addn. to satisfying the univ. entrance requirements  
 (see p. 1066 and Appendix II) candidates other  
 than grads. must also pass the coll. entrance exam.

FIRST DEGREES (of Univ. of London) The coll.  
 provides courses for degrees of the Univ.  
 of London as listed below. 3 yrs.—BA (gen.);  
 BSc (gen.), BA (hons.) in classics, Dutch, Engl.,  
 French, geog., German, Greek (with Latin), hist.,  
 Italian, Latin (with Greek), maths., philos., philol.,  
 & econ., philos. & psychol., psychol., sociol.;

BSc(Soc); BSc (spec) in biochem., bot., chem., geog., geol., maths, phys., physiol., psychol., zool.

HIGHER DEGREES (of Univ. of London). MA, MSc, PhD in classics, Dutch, Engl., French, geog., German, Greek, hist., Italian, Latin, maths., philos., psychol., social.; biochem., bot., chem., geog., geol., maths, phys., physiol., psychol., zool. MSc(Econ) and PhD(Econ) in social.

DIPLOMAS. Awarded by Univ. of London univ. academic dipl. in psychol., 1 yr. postgrad. Awarded by the coll. coll. dipl. in soc. studies and in nuclear phys., 1 yr. postgrad. each

RESEARCH Facilities in all depts

FEES (inclusive annual) for tuition: BA, £55; MA and PhD (arts), £55; BSc, £70; MSc and PhD (sci.), £70; soc. studies dipl., £60; nuclear phys. dipl., £70; unison soc. & athletic union, £3.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 010.

GRADUATES' ASSOCIATION. Bedford Coll. old students' assocn.

STUDENT RESIDENCES. Rad Hall, Regent's Park, N.W.1 (tel. Welbeck 3743), £163:13s. p.a., 145 students. Lindsell Hall, 25-35 Adamson Rd., N.W.3 (tel. Primrose 2770), £147:7s. 6d. p.a.; 87 students. Hanover Lodge, 150 Park Rd., N.W.8 (tel. Ambassador 5163), £163:13s. p.a.; 9 students. All residences for women only. Fees liable to alteration at any time

STUDENTS' UNIONS. Students' union soc. and athletic union.

PUBLICATIONS. *Calendar* every 2 yrs., post free, 3s. 6d.; *Prospectus*, free; *History of Bedford Coll. for Women, 1849-1937*, by M. J. Tuke (O.U.P., 1939; obtainable from the coll., 3s. 6d., post free)

## THE YEAR 1961

RESIGNATIONS. A. W. H. Adkins (Greek), apptd. lectr. & fellow in Greek lang. & lit., Exeter Coll., Oxford

DEATHS. W. N. Bailey, formerly prof. of maths.

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . . . .	32	9
Women . . . . .	941	19
" Total . . . . .	973	28

Distribution by Faculties. Arts, 506; sci., 380, soc. studies, 115. Total 1001.

Included in the figures above are —

Postgraduate students, 114

New admissions, 322.

Students from other countries, 95 (Countries from which largest numbers came: Hong Kong, 7; Canada, 7; India, 7)

DEGREES AWARDED (by Univ. of London) (1960-61). Arts. BA, 7; BA hon., 134; MA, 3. Sci. BSc, 8; BSc hon., 88; MSc, 1, DSc, 1. Soc. studies. BA hon., 18; BSc(Soc), 17. PhD (all facs.): 10. Total number of first degrees awarded, 272

DIPLOMAS AWARDED (1960-61). Coll. postgrad. dipl. in soc. studies, 10

[Information compiled as at 1/8/62]

## BIRKBECK COLLEGE

Incorporated 1926; previously established as the London Mechanics' Institute, 1823

Postal Address: Malet Street, London, W.C.1, England

Cables and Telegrams: Birkbeck College, London

Telephone: Langham 6622

PATRON—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

PRESIDENT OF THE COLLEGE—The Rt Hon LORD DENNING OF WHITCHURCH

CHAIRMAN OF THE GOVERNORS—W. R. WOOLDRIDGE, PhD *Chem.*, Hon. DVSoc *Law*, MSc, FRIC, FRCVS

MASTER—SIR JOHN LOCKWOOD, MA *Oxon.*, Hon. LLD *Law*, & *W. Oxon.*, PhD

CLERK TO THE GOVERNORS—A. J. CARANT, BSc

SENIOR TUTOR—D. DAKIN, MA *Cambr.*, PhD, FRHistS

REGISTRAR—ELIZABETH M. ROBERTSON

LIBRARIAN—A. P. HOWSE, MA, FLA

## TEACHING STAFF

[†=Part-Time]

Art, see Hist. of Art

## Botany

Ingold, C. T., DSc *Belf.*, FLS  
Prof., Hd. of Dept.  
Wilson, K., MSc PhD  
Reader  
Plunkett, B. E., BSc PhD  
Lectr.  
Dixon, P. A., BSc  
Lectr.  
Morton, J. K., BSc PhD *Durb.*  
Lectr.  
Cassleton, P. J., BSc PhD  
Lectr.  
Dodge, J. D., BSc PhD  
Lectr.

## Chemistry

Overend, W. G., DSc *Birm.*, FRIC  
Prof., Hd. of Dept.  
Ives, D. J. G., DSc PhD, FRIC  
(Electrochem.) Prof.  
Williams, G. H., PhD  
Reader  
Pittman, R. W., BSc PhD  
Sr Lectr.  
Shaw, R. A., BSc PhD, FRIC  
Lectr.  
Feakins, D., BSc PhD  
Lectr.  
Williams, N. R., MA PhD *Cambr.*  
Lectr.  
Capon, B., BSc PhD *Stou.*  
Lectr.  
Hedgley, E. J., BSc PhD *Birm.* (on leave) Lectr.  
Ferrier, R. J., BSc PhD *Edin.*  
Lectr.  
Smith, B. C., MA *Cambr.*, PhD *Nott.*  
Lectr.  
Fitzmaurice, B. W., BA *Durb.*  
Asst. Lectr.  
Collins, P. M., MSc  
Asst. Lectr.  
McNally, Shirley, PhD  
Asst. Lectr.

## Classics and Ancient History

Warmington, E. H., MA *Cambr.*, FRHistS  
Prof., Hd. of Dept.  
Webster, Mrs. A. Marycic, MA *Oxon.*,  
FBA  
Prof.  
Way, A. G., MA  
Sr. Lectr.  
Cavan, B. McM., MA *Cambr.*  
Lectr.

## Dutch

Weavers, T., LittD *Lev.* †Prof., Hd. of Dept.  
Huysema, Aletta, LittD *Amst.* †Lectr.  
McClure, Tams M., BA †Asst. Lectr.

## English Language and Literature

Tillotson, G., BLitt *Oxon.*  
(Lit.) Prof., Hd. of Dept.  
Brooks, H. F., MA BLitt DPhil *Oxon.* Reader  
Freeman, Rosemary, MA PhD *Cambr.* Lectr.

Evson, Vera I., BA, FSA Lectr.  
Hardy, Mrs. Barbara G., MA Lectr.  
Johnston, A., MA DPhil *Oxon.* Lectr.  
Russell-Smith, Joy D. M., MA *Oxon.* Lectr.  
Botely, Janet M., MA *Oxon.* Lectr.  
Allen, Deena V., BA *Oxon.* Lectr.  
Dodsworth, J. M., MA *Oxon.* Asst. Lectr.

## French Language and Literature

Taylor, A. C., BA *Syd.*, DU DPhil *Paris*  
Prof., Hd. of Dept.  
Ross, D. J. A., BA *Cambr.*, MA PhD Reader  
Barber, W. H., MA DPhil *Oxon.* Reader  
Fearn, Mrs. Marguerite-Liliane,  
LittL *Neschâtel*, BA PhD Lectr.  
Bailey, Mrs. Rose N. N., LittL *Dijon*, BA  
PhD Lectr.  
Blanc, M. H. A., LittL *Lyon*, BA PhD Lectr.  
Polsk, Lucie L. G., PhD Lectr.  
Curra, Mrs. Henriette, MA *St. And.*, BA  
Assistante

## Geography

East, W. G., MA *Cambr.* Prof., Hd. of Dept.  
Henderson, H. C. K., MA BSc *Glas.*,  
PhD Reader  
Campbell, Eula M. J., MA, FSA Lectr.  
Davis, J. F., BA PhD Lectr.  
Hall, P. G., MA PhD *Cambr.* Lectr.  
Bunting, B. T., MA *Sheff.* Lectr.  
Catchpole, A. J. W., BSc *Durb.* Asst. Lectr.

## Geology

Dollar, A. T. J., PhD *Cambr.*, BSc, FGS  
Reader, Hd. of Dept.  
Seager, A. F., BSc PhD, FGS Lectr.  
Simpson, A., BSc *Glas.*, PhD, FGS Lectr.  
Temple, J. T., MA PhD *Cambr.*, FGS Lectr.  
Fitch, F. J., BSc, FGS Lectr.  
Roberts, B., BSc Asst. Lectr.

## German

McClellan, R. J., DrPhil *Königsberg*, MA  
Prof., Hd. of Dept.  
Robson-Scott, W. D., MA *Oxon.*,  
DrPhil *Vienne* Reader  
Jolliffe, Charlotte, DrPhil *Berl.*, MA Lectr.  
Brady, P. V., MA *Cambr.* Lectr.

<b>History</b>		Shellenock, D. J., BA	Lectr.
Darlington, R. R., PhD <i>Edg.</i> , BA,		Blott, R. K., MA <i>Oxon.</i> , BA	Lectr.
FRHistS, FSA	Prof, Hd of Dept		
Ruddock, Alwyn A., BA PhD, FRHistS	Reader		
Hobsbawm, E. J., MA PhD <i>Cambr.</i>	Reader		
Dalton, D., MA <i>Cambr.</i> , PhD, FRHistS	Reader		
McGurk, P. M., BA PhD	Lectr.		
Gibbs, G. C., MA <i>Liv.</i>	Lectr.		
Cumpton, Mirry, MA <i>Syd.</i> , DPhil <i>Oxon.</i>	Lectr.		
Wilks, M. J., MA PhD <i>Cambr.</i>	Lectr.		
<b>History of Art</b>			
Pewner, N. B. L., CBE, MA <i>Cambr.</i> ,			
PhD <i>Lep.</i> , FSA	Prof, Hd of Dept		
Summerson, Sir John, CBE, BA, FRA,			
FSA	†Lectr.		
Murray, P., BA PhD, FSA	†Lectr.		
Zamecka, G., MA <i>Cracow</i> , PhD, FSA	†Lectr.		
<b>Italian</b>			
Duncan, D. S., BA	Lectr., Hd. of Dept		
Giosetti, G. F., Dott <i>Lett. Pisa</i>	Lectr.		
<b>Mathematics, Pure and Applied</b>			
Offord, A. C., PhD <i>Leeds</i> & <i>Cambr.</i> , DSc,			
FRS	Prof., Hd. of Dept		
Dowker, C. H., BA <i>W. Oxon.</i> , MA <i>Tor.</i> ,			
PhD <i>Prin.</i>	Prof.		
Tiffin, R. W., MSc PhD, FIP	Reader		
Vermes, P., DSc	Reader		
Edge, J., BA <i>Cambr.</i> , BSc	Lectr.		
Kronheimer, E. H., MA <i>Cambr.</i> ,			
PhD <i>Ston.</i>	Lectr.		
Mehda, M. R., MSc PhD	Lectr.		
Herzberg, J., MSc PhD	Lectr.		
Papert, Dona, PhD <i>Cambr.</i>	Lectr.		
Cohen, D. E., MA DPhil <i>Oxon.</i>	Lectr.		
...	Lectr.		
...	Lectr.		
Buxton, L. G., BSc	†Asst		
<b>Numerical Automation</b>			
...	Hd. of Dept		
Levison, M., BSc	Lectr.		
<b>Occupational Psychology</b>			
Rodger, A., MA <i>Cambr.</i>	Prof		
Cavanagh, P., MA <i>Cambr.</i>	Lectr.		
Randell, G. A., BSc <i>Not.</i> , MSc	Lectr.		
Pym, D. L. A., BA <i>Melb.</i> , MA	Asst. Lectr.		
<b>Philosophy, Logic and Ethics</b>			
Saw, Ruth L., BA PhD			
(Aesthetics) Prof, Hd. of Dept.			
Hamlyn, D. W., MA <i>Oxon.</i>	Lectr.		
Griffiths, A. P., BA <i>Wales</i> , BPhil <i>Oxon.</i>	Lectr.		
<b>Physics</b>			
Bernal, J. D., MA <i>Cambr.</i> , FRS	Prof., Hd. of Dept		
Bohm, D. J., BS <i>Penn.</i> , PhD <i>Calif.</i>	(Theoret. P.) Prof.		
Ehrenberg, W., PhD <i>Heidel.</i> , DSc, FIP	(Exper. P.) Prof		
Callale, C. H., MSc <i>Lach.</i> , DPhil <i>Oxon.</i> ,	FIP (Crystalline) Reader		
Jeffery, J. W., BA <i>Cambr.</i> , PhD, FIP	St. Lectr.		
Cusack, N. E., BSc PhD	Lectr.		
Trent, P., BSc PhD	Lectr.		
Jennings, J. C. E., BSc PhD	Lectr.		
Butt, D. K., PhD <i>Edin.</i> , BSc	Lectr.		
Madany, A. L., MA <i>Cambr.</i> , BSc PhD	Lectr.		
Hersch, J., BSc PhD	Lectr.		
Bullen, G. J., BSc PhD	Lectr.		
Hiley, B. J., BSc	Asst. Lectr.		
Cotney, A. A., BSc <i>Brist.</i>	Asst. Lectr.		
<b>Psychology</b>			
Summerfield, A., BSc <i>Manch. &amp; Lond.</i>	Prof., Hd. of Dept.		
Foss, B., MA <i>Oxon.</i> & <i>Cambr.</i>	Lectr.		
Venosa, Thelma, BA	Lectr.		
Hurwitz, H. M. B., BA <i>Rand.</i>	Lectr.		
Brown, J., MA PhD <i>Cambr.</i>	Lectr.		
Ward, Barbara, MA <i>Cambr. &amp; Lond.</i>	(Anthropol.) Lectr.		
Millar, Susanna, BA PhD	†Lectr.		
Gould, S. J., MA <i>Oxon.</i>	†Lectr.		
Krtapil Taylor, F., MD <i>Prague</i> , DPM	†Lectr.		
Kernan, C. C., BA <i>Not.</i>	Asst. Lectr.		
<b>Spanish</b>			
Watson, A. I., BA PhD	Lectr., Hd. of Dept		
Dutton, B., MA	Lectr.		
Truman, R. W., MA <i>Oxon.</i>	Lectr.		
Johnson, R., BA <i>Cambr.</i>	Asst. Lectr.		
Salazar, A. M., <i>LoenHst Seville</i>	†Asst		
<b>Statistics</b>			
Cox, D. R., MA <i>Cambr.</i> , PhD <i>Leeds</i>	Prof.		
Wetherill, G. B., BSc PhD	Lectr.		
Müller, H. D., BSc <i>Rand.</i> , MA <i>Cambr.</i>	Lectr.		
<b>Zoology</b>			
Bullough, W. S., DSc <i>Leeds</i>	Prof., Hd. of Dept.		
Hughes, T. E., MA <i>Oxon.</i>	Reader		
Griffiths, L., MSc <i>Wales</i> , PhD	Lectr.		
Attridge, J., MA <i>MS Calif.</i> , BSc	Lectr.		
Weidmann, U., DPhil <i>Zür.</i>	Lectr.		
Chapman, R. F., BSc PhD	Lectr.		
Cruickshank, W. J., BSc <i>Aberd.</i>	Asst. Lectr.		
Wells, J. B. J., BSc PhD <i>Exc.</i>	Asst. Lectr.		

## ADMINISTRATIVE AND OTHER STAFF

Bursar: J. W. Spethcott, FCA Asst Sec.	M. Withers, Technical Adviser (Radiation):
P. B. Rowley, MA <i>Oxon.</i> Dep. Librarian North	D. K. Butt, PhD <i>Edin.</i> , BSc.
H. Evans, BA, FLA Asst to Registrar, Joyce	

## GENERAL INFORMATION

Founded by Dr George Birkbeck in 1823 'for the purpose of giving educs to students in the principles of the arts they practise, and in the various branches of sci. and useful knowledge'. The principal aim of the coll., which was admitted as a sch. of the Univ. in 1920 and incorporated by royal charter in 1926, is to enable men and women engaged in full-time occupations during the day to employ their leisure in reading for first degrees in arts and pure sci. or to engage in res. with a view to taking higher degrees in these facs. While the coll. is primarily intended for evg. and pt-time students, undergrads may in their final yr. be admitted to full-time study and postgrad. students wishing to devote the whole of their time to their res. are also accepted.

INCOME (1960-61). £534,000 (govt. grants, 83.2 per cent.; grants for res., 11.3 per cent.; fees, 4.6 per cent.; endowments & donations, 0.3 per cent.; misc., 0.6 per cent.)

FACULTIES AND DEANS (1962-63) *Arts*, Dr D. J. A. Ross (French), *sci.*, Prof. W. G. Overend (chem.)

LIBRARY 80,000 vols

ADMISSION. See p. 1066 and Appendix III.

FIRST DEGREES (of Univ. of London) The coll. provides courses for degrees of the Univ. of London as listed below 3 yrs.—BA (gen.), BSc (gen.); 3 or 4 yrs.—BA (hons) in classics, Dutch, Engl., French, geog., German, Greek (with Latin), hist., Latin (with Greek), maths, philos., philos. & psychol., psychol., or Spanish.

4 yrs.—BSc (spec.) with, as main subj., bot., chem., geog., geol., maths., phys., psychol., or zool.

HIGHER DEGREES (of Univ. of London) MA and PhD in classics, Engl., French, German, geog., hist., maths., philos., psychol., Spanish; MSc and PhD in bot., chem., crystallog., geog., geol., maths., phys., psychol., zool. Lecture courses for MSc in crystallog., and MA and MSc in occupat. psychol.

DIPLOMAS Awarded by Univ. of London. Postgrad. — numerical analysis, psychol., stats., each 1 yr. full-time or 2 yrs. pt-time.

ADVANCED STUDIES. Res. facilities are offered to full-time and pt-time students in all depts. Enquiries should be directed to the hd. of the dept. concerned or to the registrar.

FEES Annual composition fees (incl. union membership). arts (incl. maths. in both facs.), £24, sci. (incl. geog. and psychol. in both facs.), £30. Postgrad. work: arts, pt-time £18, whole-time £55, sci., pt-time £24, whole-time £70.

PUBLICATIONS. *Prospectus* (post free); *Calendar*, 2s. 6d.; *Report* (annual), *Haldane Memorial Lectures*, 2s. 6d. each, *Lectures* (students); Delisle Burns, *History of Birkbeck Coll.*, Univ. of London Press, 1922; E. H. Warrington, *A History of Birkbeck Coll. during the Second World War 1939-45*, Birkbeck Coll., 1954. Copies of all publica. may be obtained from the coll.

## THE YEAR 1961

REFRESHMENTS R. Furth (phys.); Prof. C. A. Meese (psychol.)

RESIGNATIONS A. W. Coppel (maths.), apptd. fellow, Inst. of Advanced Studies, A.N.U.; G. J. Cunliffe (bot.), apptd. lectr., Westfield Coll., Lond.; A. W. Ingleton (maths.), apptd. fellow, New Coll., Oxford; S. M. McCue-Russell (zool.), apptd. to res. post, Med. Res. Council; M. N. Moore (phys.), apptd. asst. prof., Calif.

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	134	999
Women	47	363
Total	179	1362

Distribution by Faculties. *Arts*, 774; *sci.*, 767. Total, 1541.

Included in the figures above are:—

Postgraduate students, 559

New admissions, 418

Students (full-time and pt-time) from other countries, 181 (Country from which largest number came: India, 39)

DEGREES AWARDED (by Univ. of London) (1960-61) *Arts*: BA, 9; BA hons, 97; MA, 13, PhD, 11. *Sci*: BSc, 16; BSc spec., 39; MSc, 20, PhD, 16.



[Information compiled as at 1/8/62]

# IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Founded 1907

Postal Address: Prince Consort Road, S. Kensington, London, S.W.7, England

Cables and Telegrams: Imperial College, London, S.W.7

Telephone: Kensington 5111

VISITOR—H. M. THE QUEEN

CHAIRMAN OF THE GOVERNING BODY—SIR ROGER MARSH, GCB, GCMG

RECTOR—SIR PATRICK LANEHEAD, CBE, DSc, DIC, FRS

PRO RECTOR—Professor P. M. S. BLACKETT, MA Camb, Hon LLD St And., FRS

DEAN OF THE ROYAL COLLEGE OF SCIENCE—Professor H. JONES, PhD Leab &amp; Camb, FRS

DEAN OF THE CITY AND GUILDS COLLEGE—Professor O. A. SAUNDERS, MA Camb., DSc(Eng), MIMechE, FRAeS, FIP, FRS

DEAN OF THE ROYAL SCHOOL OF MINES—Professor J. G. BALL, BSc, FIM

SECRETARY AND CLERK TO THE GOVERNORS—M. J. DAVIES, CMG, OBE, MA Oxon

REGISTRAR—E. F. CUTCLIFFE, MBE, MA Oxon

FINANCIAL SECRETARY—A. E. SAVAGE, MA Oxon

DEVELOPMENT OFFICER—E. FAIRHURST, MA Oxon

DOMESTIC BURSAR—C. C. SEAFORD, MC, BA Camb

LIBRARIAN—C. W. H. CURRIE, MA Camb., LLB, FLA

## TEACHING STAFF

[†=Part-Time]

### Aeronautics

Owen, P. R., MSc Zeharoff Prof

Argyris, J. H., DE Munich, DSc(Eng)

FRAeS (Aeronaut. Structures) †Prof

..... (Aeronaut. Structures) Reader

Stollery, J. H., MSc, DIC Reader

Irving, F. G., MEng Lib., DIC Sr Lectr.

Jackson, G., MA Camb., DIC Sr Lectr.

Harvey, J. K., BSc(Eng) PhD, DIC Lectr

Throsby, P. W., BEng Syd.

(Aeronaut. Structures) Lectr

Taylor-Russell, A. J., BSc(Eng) PhD, DIC Lectr.

Belcher, B. J., BSc(Eng) Lectr.

Slane, P. A. Lectr.

Thomas, K., BSc(Eng) PhD

(Aeronaut. Structures) Lectr

Kelsey, S., BSc(Eng)

(Aeronaut. Structures) Lectr

Chan, A. S. L., BSc Chiao-Tung, MSc,

DIC Lectr.

a Demers.

### Bacteriology, see Bot

### Biochemistry, see Bot.

### Biology, see Bot. and Zool.

### Botany and Plant Technology

James, W. O., MA DPhil Oxon., FRS

Prof., Hd. of Dept

Porter, Mrs. Helen K., DSc, DIC, FRS

(Plant Physiol.) Prof.

Cham, E. B., DrPhil Berol., MA DPhil Oxon.

PhD Camb., FRS (Biochem.) †Prof

Buxton, H. W., DSc, DIC (Biochem.) Reader

Jacobs, S. E., DSc PhD (Bacteriol.) Reader

Wood, R. K. S., BSc PhD, DIC

(Plant Pathol.) Reader

Rutten, A. J., BSc PhD (Ecol.) Reader

Edelman, J., PhD BSc (Enzymol.) Reader

Whitehead, F. H., MA DPhil Oxon.

(Exper. Taxonomy) Reader

(Plant Physiol.) Reader

Greenwood, A. D., BSc Sr Lectr.

Levy, J. F., BSc, FLB (Timber Technol.) Lectr

Wheeler, B. E. J., BSc PhD

(Plant Pathol.) Lectr.

Russell, J., BSc PhD (Biochem.) Lectr.

Deverall, B. J., BSc Edin., PhD, DIC

(Mycol.) Lectr.

Kershaw, K. A., BSc PhD (Ecol.) Lectr  
 Alvin, K. L., PhD, FLS (Palcobot) Lectr.  
 Gay, J. L., BSc Leeds, PhD Nott.  
 (Bacteriol) Lectr.  
 Hanway, J. W., PhD BSc Manc  
 (Plant Physiol) Lectr.  
 Threlfall, R. J., BSc PhD (Genetics) Lectr.  
 Dadd, A. H., PhD BSc (Bacteriol) Lectr.  
 Dalby, D. H., BSc PhD, FLS  
 (Taxonomy) Lectr  
 Dickerson, A. G., MSc Asst. Lectr.  
 Gordon, J. F., BSc Asst. Lectr.  
 4 Dema.

# Chemistry

Barrer, R. M., PhD BSc Camb, DSc N.Z.,  
 FRIC, FRS (Phys. C) Prof, Hd of Dept.  
 Wilkinson, G., PhD, DIC (Inorg. C) Prof.  
 Barton, D. H. R., DSc PhD, FRS (Org. C) Prof.  
 Tompkins, F. C., DSc PhD Brst., FRS  
 (Phys. C) Prof.  
 Owen, L. N., DSc PhD, FRIC (Org. C) Prof.  
 Theobald, L. S., MSc, FRIC (Analyt. C) Reader  
 Welch, A. J. E., PhD, DIC (Inorg. C) Reader, Asst. Dir.  
 Elvidge, J. A., DSc PhD, DIC (Org. C) Reader  
 Rogers, D., BSc PhD (Chem. Crystalllog) Reader  
 Gordon, M., PhD DSc, FRIC (Phys. C) Reader  
 Roberts, E. R., JP, PhD, DIC (Inorg. C) Sr Lectr.  
 Jacobs, P. W. M., MSc PhD (Phys. C) Sr Lectr.  
 Heringshaw, J. F., PhD, DIC, FRIC (Inorg. C) Lectr.  
 Atkinson, B., PhD BSc, DIC, FRIC (Phys. C) Sr Lectr.  
 Cornfield, A. H., MSc PhD, DIC, FRIC (Agric. C) Lectr.  
 Rees, L. V. C., BSc PhD (Phys. C) Lectr.  
 Levitt, B. P., MA PhD (Phys. C) Lectr.  
 Barrie, J. A., PhD BSc (Phys. C) Lectr.  
 Evans, D. F., BA DPhil Oxon.  
 (Inorg. C) Lectr  
 Waught, E. S., PhD, DIC (Org. C) Lectr.  
 Poe, A. J., MA BSc PhD (Inorg. C) Lectr.  
 Goodgame, Mia Margaret, MA  
 DPhil Oxon (Inorg. C) Lectr.  
 Turner, D. W., BSc PhD, DIC (Org. C) Lectr.  
 Sutherland, J. K., BSc PhD (Org. C) Lectr.  
 Pratt, L., BA DPhil Oxon. (Inorg. C) Lectr.  
 Spore, M., DPhil Oxon, MSc N.Z.  
 (Phys. C) Lectr  
 Wood, J. L., MA Camb., PhD (Phys. C) Lectr  
 Parsonage, N. G., MA Camb., DPhil Oxon  
 (Phys. C) Lectr  
 Mason, R., BSc Wafer, PhD, FIP  
 (Inorg. C) Lectr  
 Goodgame, D. M. L., MA BSc DPhil Oxon  
 (Inorg. C) Lectr.  
 Walkley, J., BSc PhD (Phys. C) Lectr  
 Hayward, D. O., PhD (Phys. C) Asst. Lectr.

Kirby, G. W., MA PhD (Org. C) Lectr  
 Griffith, W. P., BSc PhD, DIC (Inorg. C) Lectr  
 Gillard, R. D., BA Oxon., BSc (Inorg. C) Asst. Lectr  
 Lock, C. J. L., BSc (Inorg. C) Asst. Lectr.  
 Sklarz, B., PhD MA Camb. (Org. C) Asst. Lectr.  
 Kerr, I. S., BSc PhD (Phys. C) Res Asst. (Lectr.)  
 Ash, R., MSc Lond. (Phys. C) Res Asst. (Lectr.)

# Engineering, Chemical and Technology, Chemical

Ubbelohde, A. R. J. P., CBE, MA DSc Oxon.,  
 FRS (Thermodynamics) Prof., Hd. of Dept  
 Denbigh, K. G., MA PhD DSc, FRIC (Chem. E.) Courtisals Prof.  
 Rowlinson, J. S., BSc MA DPhil Oxon.,  
 FRIC (Chem. Technol.) Prof.  
 Sargent, R. W. H., BSc PhD (Chem. E.) Prof.  
 Gaydon, A. G., DSc PhD, DIC, FRS (Molecular Spectroscopy) Prof.  
 Burgoyne, J. H., DSc PhD, DIC, FRIC (Chem. E.) Reader  
 Hall, G. R., BSc, FRIC (Nuclear Technol.) Reader  
 Wilman, H., PhD DSc, DIC, FIP (Appl. Chem. Phys.) Reader  
 Strickland-Constable, R., MA DPhil Oxon. (Chem. E.) Reader  
 Wilson, M. J. G., PhD BSc, DIC (Fuel Technol.) Sr Lectr.  
 Cullis, C. F., MA DPhil Oxon., BSc, FRIC (Combustion) Sr Lectr.  
 Wemberg, F. J., PhD, DIC (Combustion) Sr Lectr.  
 Sawatowski, H., BSc PhD, DIC (Chem. E.) Sr Lectr.  
 Eisenklam, P., MEngSc MSc, PhD, DIC, FRS (Fluid Kinetics) Sr Lectr.  
 Weale, K. E., PhD, DIC (High Pressure Technol.) Sr Lectr.  
 Barrett, L. R., MA BSc Oxon., MS Ill. (Silicate & Ceramics Technol.) Lectr.  
 Anderson, G. H., BSc (Chem. E.) Lectr  
 Batt, K. E., BSc PhD (High Pressure Technol.) Lectr.  
 Heare, M. R., PhD Camb., BSc Lectr.  
 Parry, G. S., PhD, DIC (Chem. Phys. of Solids) Lectr  
 Long, V. D., BSc PhD, DIC (Fuel Technol.) Lectr.  
 Matthews, H. L., OBE, MC, BSc, FLS (Electron Microscopy) Sp. Lectr.  
 McLaughlin, E., MSc PhD, DIC (Chem. Phys. of Liquids) Lectr.  
 Evans, H. D., BSc PhD (Radiation Hazards) Lectr.  
 Munday, G., BSc Lectr.  
 Young, D. A., PhD (Chem. Phys. of Solids) Lectr.  
 Rippin, D. W. T., MA PhD Camb. (Chem. E.) Lectr.  
 Cloete, F. L. D., MSc (Nuclear Technol.) Lectr.

Counish, A. R. H., PhD III	Lectr	DrScTech Zür, Hon. LLD <i>Aberd.</i>
Cragg, C. B., BA Tw., MSc PhD <i>MCM</i>		DPhil Oxon, MIEE, FIP, FRSE
		Prof, Hd of Dept.
Miles, J. E. P., BSc(Eng)	Asst Lectr	Tustin, A., MSc, MIEE
Pash, A., MA Camb., PhD, DIC	Asst Lectr	(Heavy Electr. Engin.) Prof.
Anolik, C., BSc Cope T	Asst Lectr	Gabor, D., DrIng <i>Berl.</i> , MIEE, FRSE
Westerberg, A. W., BSc	Asst Lectr	(Appl. Electron. Phys.) Prof.
Stroat, M., BSc <i>Manc.</i> , PhD, DIC	Asst Lectr	Cherry, E. C., DSc(Eng) (Telecommns.) Prof.
Gagan, K., BSc(Eng)	Asst Lectr	Westcott, J. H., BSc PhD, DIC
Shahbenderian, A. P., MA Camb., PhD		Prof
	†Sp Lectr	Adams, B., MA Camb., DSc(Eng), MIEE

**Engineering, Civil**

Skempton, A. W., DSc(Eng), DIC, MICE, FRS	Prof, Hd of Dept	Morris, D. G. O., DSc <i>Wales</i>	Reader
Baker, A. L. L., DSc(Eng), MICE		Boothroyd, A. R., BSc PhD, DIC	Reader
(Concrete Structures & Technol.) Prof.		(Electronics) Reader	
White, C. M., DSc(Eng) PhD		Anderson, J. C., PhD MSc	(Electronics) Reader
(Fluid Mechanics & Hydraulic Engin.) Prof		Uwinn, C. R.	(Measurements) Sr. Lectr.
Sparkes, S. R., MSc <i>Brist.</i> , PhD, DIC, MICE	(Engin. Struct.) Prof.	Hancock, M., BSc	(Electr. Traction) Sr. Lectr.
Stephenson, A., OBE, MA Camb.	(Surveying) Reader	Sparkes, J. J., BSc	Sr. Lectr.
Flint, A. R., BSc(Eng) PhD		Kayser, H. D., BSc	Lectr.
(Struct. Steelwork) †Reader		Rutenborg, D., BSc	Lectr.
Bruce, F. E., SM <i>Harc.</i> , MSc(Eng), DIC		Prigmore, B. J., MA Camb., MSc, DIC	Lectr.
(Pub. Health Engin.) Reader		Barker, J. R., PhD	Lectr.
Ashby, R. J., MSc(Eng), DIC	Reader	Carpenter, C. J., MSc(Eng)	(on leave) Lectr.
Wolf, P. O., BSc(Eng), MICE		Roberts, J., BSc(Eng)	Lectr.
(Engin. Hydrol.) Reader		Blackman, P. F., BSc PhD MEng	Lectr.
Bishop, A. W., MA Camb., DSc(Eng)		Hessell, E., BSc	Lectr.
PhD		Burs, R. R., PhD <i>Nott.</i>	Lectr.
(Soil Mech.) Reader		Mayne, D. Q., MSc <i>S. A.</i>	Lectr.
.....		Sayers, B. M., MSc PhD, DIC	Lectr.
Brown, E. H., BSc PhD, DIC		King, R. A., MA	Lectr.
(Struct. Analysis) Reader		Cory, B. J., BSc(Eng)	Lectr.
Henderson, J. C. de C., DIC		Jones, D., MA PhD	Lectr.
(Reinf. Concrete Structures) Reader		Allen, P. H. G., BSc(Eng)	Lectr.
Chapman, J. C., PhD, DIC	Reader	Gundry, P. M., BSc PhD	Lectr.
Henkel, D. J., BSc PhD	Sr. Lectr.	Frans, L. L., MSc(Eng), DIC	Lectr.
Ainsworth, H., MA Camb.	Sr. Lectr.	Gale, H. M., BSc(Eng), MIEE	Lectr.
Makowski, Z. S., DipEng <i>Warsaw</i> , PhD, DIC	Sr. Lectr.	Bates, J. J., BSc PhD	Lectr.
Kenn, M. J., MASE Tw., BSc(Eng)	Sr. Lectr.	Goodlad, J. S. R., BA Camb.	Lectr.
Newman, K., BSc(Eng)	Lectr.	Salmon, J. W., MSc	Lectr.
Jowitt-Fox, G. T., BE <i>Sheff.</i>	Lectr.	Spence, R., PhD BSc(Eng), DIC	Lectr.
Edwards, A., BSc(Eng), DIC	Lectr.	Howl, J. M., MA Camb.	Lectr.
Gent, A. R., BSc PhD	Lectr.	Kitai, R., MSc <i>Rend.</i>	Lectr.
O'Donnell, T., MA Camb.	Lectr.		
Dowley, A. L.	Lectr.		

**Engineering, Mechanical**

Ambroseys, N. N., DipIng <i>Athens</i> , PhD, DIC	Lectr.	Saunders, O. A., MA Camb., DSc(Eng), MIMechE, FRAES, FIP, FRSE	Prof, Hd. of Dept.
Munro, J., BSc, DIC	Lectr.	Ford, H., DSc(Eng) PhD, MIMechE	(Appl. Mech.) Prof.
Cassell, A. C., BSc(Eng), DIC	Lectr.	Nash, B. G., MA PhD Camb., MICE	(Appl. Sci. with sp. ref. to Engin.) Prof.
Minton, P., BSc(Eng)	Lectr.	.....	(Nuclear Power) Prof.
Gibson, R. E., BSc(Eng) PhD, DIC	Lectr.	Spalding, D. B., MA Oxon., PhD Camb.	(Heat Transfer) Prof.
Morgenstern, N., BAsC Tw.	Lectr.	Glaister, E. E., PhD MSc(Eng), DIC	Reader
Hardwick, J. D., BAsC Tw.	Lectr.	Grant, P. J., PhD Camb., MA, FIP	(Engin. Sci.) Reader
Manton, B. G., BSc(Eng), DIC	Sp Lectr.	Martin, B. W., PhD <i>Durk.</i> , MSc <i>Brist.</i>	(Appl. Thermodyn.) Reader
Szwajkajzer, Z. M., DIC	Asst Lectr.	Moore, N. P. W., BSc(Eng), DIC	(on leave) Reader

**Engineering, Electrical**

Jackson, Sir Willis, DSc *Manc.*, Hon. DSc (Eng) *Brist.*, Hon. DEng *Sheff.*, Hon.

Esken, S., *Dipling Hayfa*, PhD, DIC,  
MIMechE (Prod. Engin.) Reader  
Alexander, J. M., PhD, DIC, MIMechE  
(Plastics) Reader

Hoyle, R. D., BA Camb., PhD  
Groenouhuys, P., BSc(Eng) PhD, DIC  
Cameron, A., PhD Reader

Chalk, J. T., MSc, DIC 8r Lectr.  
James, J. W., PhD, DIC 8r Lectr.

De Mailherbe, M. C., PhD, DIC 8r Lectr.  
Turner, C. E., BSc(Eng) PhD 8r Lectr.

Trobarnet, T. L. G., BSc(Eng) 8r Lectr.  
Woodward, Joan, MA DScPA Oxon. 8r Lectr.

Cole, E. H., BSc(Eng) Lectr.  
Sheilston, A., BSc(Eng) PhD, DIC Lectr.

Karim, G. A., BSc Durb., PhD, DIC Lectr.  
Singham, J. R., PhD BSc(Eng) Lectr.

Brewer, R. C., BSc(Eng) Lectr.  
Lewis, J. C., BSc(Eng) Lectr.

Taylor, R. G., BSc PhD Lectr.  
Wood, W. G., BSc PhD Lectr.

Ogcockiewicz, R. M., MSc(Eng), DIC Lectr.  
Swanson, S. A. V., BSc(Eng) PhD, DIC Lectr.

Strickland, R. E., MA Lectr.  
Braham, P., MSc Belf., PhD Lectr.

Peckles, S. J., BSc(Eng) Lectr.  
Ellis, F., BSc(Eng) PhD Lectr.

Solomon, P. J. B., BSc(Eng), DIC Lectr.  
Hall, B. J., MSc Lectr.

Culver, L. R., BSc(Eng) Lectr.  
James, C. G., PhD MA Lectr.

Martin, D. G., BSc MAsE W Ont Lectr.  
Smith, R. T., BSc Lectr.

Hall, R. I., BSc, DIC Lectr.  
Kang, J. R., BSc, DIC Lectr.

Evans, H. L., PhD MSc, DIC Lectr.  
McConnaghy, D. J., BA BSc Lectr.

Marek, P. V., BSc(Eng) Lectr.  
Nicoll, W. B., SM Stew Lectr.

Jain, V. K., PhD MSc Temp Lectr.  
Ma, A. S. C., PhD MSc Temp Lectr.

Thieme, H. C. A., BSc(Eng) †Sp Lectr.  
Jacobs, B. E. A., BSc(Eng) Asst. Lectr.

Baker, F. J., BSc Asst. Lectr.  
Williams, J. G., BSc Asst. Lectr.

#### Geochemistry, Applied

Webb, J. S., BSc PhD, DIC Prof.  
Tooms, J. S., BSc PhD, DIC Reader  
Stanton, R. E., DIC Res. Fellow

#### Geology

Williams, D., DSc PhD BEng Lit., DIC, FGS (Mining G.) Prof., Hd. of Dept.  
Sutton, J., BSc PhD, DIC Prof.  
Gill, W. D., MA Dab., DSc Leeds (Oil Technol.) Prof.

Wilson, G., MSc PhD, DIC, FGS (Struct. G.) Reader  
Butler, J. R., BA PhD (Pure Geochem.) Reader

Hobson, G. D., PhD, DIC (Oil Technol.) Reader  
(Oil Technol.) Reader

Blyth, F. G. H., PhD, DIC, FGS (Engin. G.) Reader  
Millman, A. P., BSc PhD, DIC (Mining G.) Reader

Ager, D. V., BSc PhD, DIC Reader  
Cosmber, S. E., BSc, DIC (Oil Technol.) Sr. Lectr.

Thomas, G., BSc PhD, DIC (Palaeontol. & Stratigraphy) Lectr.  
Carter, D. J., DFC, BSc (Palaeontol. & Stratigraphy) Lectr.

Shatman, D. J., BSc, FGS (Petrol.) Lectr.  
Walker, G. P. L., MSc PhD (Mineral.) Lectr.

Slake, W., BSc PhD (Petrol.) Lectr.  
Fothergill, C. A., BSc PhD, DIC (Oil Technol.) Lectr.

Ramsay, J. G., PhD BSc, DIC Lectr.  
Carmichael, I. S. E., MA Camb. Lectr.

Holwell, F. W., BSc Lectr.  
Knill, J. L., BSc PhD (Engin. G.) Lectr.

Dixon, C. J., BSc (Mining G.) Lectr.  
Evans, G., BSc BSc, PhD (Stratigraphy) Lectr.

James, T. C., BSc (Mining G.) Lectr.  
Kerney, M. P., PhD BSc, DIC Lectr.

Toms, H. M. K., BSc BSc, Asst. Lectr.

#### Geophysics, Applied

Bruckshaw, J. M., MSc PhD, DIC Prof.  
Mason, R. G., MSc PhD, DIC Lectr.

Hall, S. H., MSc PhD, DIC Lectr.  
Taylor-Smith, D., BSc PhD, DIC Lectr.

#### Mathematics

Jones, H., PhD Leeds & Camb., FRS Prof., Hd. of Dept.  
Barnard, G. A., MA Camb. (Stats.) Prof.

Hayman, W. K., MA ScD Camb., ARCS, FRS (Pure M.) Prof.  
Jones, C. W., PhD Camb., MSc Lit. (Appl. M.) Prof.

Roth, L., MA Camb. (Pure M.) Reader  
Whitrow, G. J., MA DPhil Oxon. (Appl. M.) Reader

Secker, R. S., MA Camb., PhD (Appl. M.) Reader  
Wohlfarth, E. P., DSc PhD, FIP (Appl. M.) Reader

Jaswon, M. A., MA Dab., PhD Buss. Reader  
Winstan, C. B., MA Camb. & Oxon. (Stats.) Reader

Rames, S., PhD DSc, DIC Reader  
Chant, J. G., PhD BSc St. And. (Analysis) Reader

Fraenkel, L. E., MSc (Theoret. Aerodynam.) Reader  
Lloyd, E. H., BSc PhD, DIC Sr. Lectr.

Gordon, A. N., MSc PhD Sr. Lectr.  
Talbot, A., MA Camb., PhD (on leave) Sr. Lectr.

Frenzel, E. E., MSc, DIC Lectr.  
Moutner, A. J., BSc Lectr.

Hepner, W. A., PhD Edin. Lectr.  
Fairbrother, H., MSc Lectr.

Wagner, A., MA Oxon, PhD MSc  
 Osborne, M. R., BA MPhil, PhD  
 Jenkins, G. M., BSc PhD  
 Kovari, T., PhD  
 Michaelson, S., BSc  
 Tanner, Mrs Rosalind C. H., PhD  
 Austin, M. C., BSc  
 Thompson, R. S. H. G., BSc  
 Dowker, Mrs Yasu N., MA, Johns H.,  
 PhD Harv.  
 Stephenson, G., PhD BSc, DIC  
 Hochberg, S., PhD BSc  
 Penrose, O., PhD BSc (on leave)  
 .....  
 Adler, J., MSc PhD  
 Hunt, D. M., PhD BSc, DIC  
 Baker, I. N., MSc Adel.  
 Warren, F. W. G., BSc PhD  
 Farlie, D. J., BSc

### Metallurgy

Ball, J. G., BSc, FIM  
 (Phys. M.) Prof., Hd of Dept  
 Richardson, F. D., DSc PhD, FIM  
 (Extraction M.) Prof  
 Johnson, A. A., MA BSc Reader  
 Pritt, P. L., BSc PhD Comb. (Phys. M.) Reader  
 Bradshaw, A. V., BSc, FIM  
 (Extraction M.) Reader  
 Alcock, C. B., BSc PhD, DIC  
 (Chem. M.) Reader  
 Harris, R. H., BSc(Eng) Sr Lectr.  
 Tweeddale, J. G., FIM Lectr.  
 Thomas, D. L., BSc Water, PhD, DIC Lectr.  
 Bell, R. L., BSc PhD Lectr.  
 Bailey, A. R., MSc PhD, DIC  
 (Engn. M.) Lectr.  
 West, D. R. F., PhD BSc, DIC Lectr.  
 Pantony, D. A., PhD BSc, FRIC Lectr.  
 Sawyer, H. D., BSc Lectr.  
 Burkin, A. R., PhD MSc, FRIC Lectr.  
 Crane, F. A. A., BSc(Eng) Lectr.  
 Lench, J. S. L., BSc PhD Lectr.  
 Hills, A. W. D., MA Comb. Lectr.  
 Newby, C. W. A., BSc PhD Bim. Lectr.  
 Kolbuss, P., DiplIng Aud. Lectr.  
 Steele, B. C. H., BSc Brns. Lectr.  
 Szecely, J., PhD BSc, DIC Lectr.  
 Tomlinson, J. W., PhD, DIC Res. Fellow

### Meteorology

Sheppard, P. A., BSc, FIP Prof., Hd of Dept.  
 Eady, E. T., BA Comb., PhD  
 (Phys. Climatol.) Reader  
 Ludlam, F. H., DSc, DIC Reader  
 Hunt, J. N., PhD, DIC (Phys. Oceanog.) Reader  
 Green, J. S. A., BSc PhD Lectr.  
 Czupka, U. H., DrRerNat Hamburg Lectr.  
 Probert-Jones, J. R., BA Comb. Lectr.  
 Rignell, K. J., BSc Asst. Lectr.

### Mining and Mineral Technology

Mitcheson, J. C., CBE, BSc Brns., FGS  
 Prof., Hd of Dept.

Fleming, M. G., BSc PhD Lectr.  
 (Mineral Technol.) Prof  
 Sheppard, J. S., OBE, BSc(Eng) Lectr.  
 (Mine Surveying) Reader  
 Kitchener, J. A., DSc PhD Lectr.  
 (Sci. of Mineral Processing) Reader  
 Thomas, T. L., MBE, BSc PhD Sr. Lectr.  
 Jennings, H., BSc(Eng) Lectr.  
 Blyth, H. N., BA, FRIC Lectr.  
 Bray, J. W., MSc PhD Lectr.  
 Otley, D. J., BSc(Eng) Lectr.  
 Stepec, W. A., DiplEng(Min) Lectr.  
 Mellgren, O., ScD M.I.T., DipTech T.H.  
 Trautman Lectr.  
 Grierson, A., BSc(Eng) Lectr.  
 Cohen, E., MSc PhD Lectr.  
 Dallender, J. A., BSc(Eng) Lectr.  
 Sutton, D., BSc(Eng) Lectr.  
 Prosser, A. P., BSc PhD, DIC Lectr.  
 Moncreff, A. G., BA Comb., BSc Lectr.  
 Jones, M. P., BSc, DIC Lectr.

### Physics

Blackett, P. M. S., MA Comb., Hon. LLD  
 St. And. FRS Prof., Hd of Dept.  
 Wight, W. D., DSc, DIC (Tech. Optics) Prof.  
 McGee, J. D., OBE, MSc Syd., PhD Comb.,  
 FIP (Instrument Technol.) Prof.  
 Butler, C. C., PhD BSc, FRF Prof.  
 (Solid State P.) Prof.  
 Blackman, M., MSc S.A., PhD GM. &  
 Lond. DIC, FRF Prof.  
 Salam, A., MA PhD, FRF (Theoret. P.) Prof.  
 Elliot, H., PhD MSc Manc. Prof.  
 Mason, B. J., DSc (Cloud P.) Prof.  
 Matthews, P. T., MA PhD Prof.  
 Wynne-Williams, C. E., PhD Comb.,  
 MSc Wales, DSc Reader  
 Pearse, R. W. B., DSc PhD, DIC, FIP  
 (Spectroscopy) Reader  
 Klemperer, O., PhD Berl. Reader  
 Johnson, B. K., DIC (Tech. Optics) Reader  
 Stephens, R. W. B., PhD, DIC, FIP  
 (Acoustics) Reader  
 Wilcock, W. L., BSc PhD Manc. Lectr.  
 (Instrument Technol.) Reader  
 Clegg, J. A., PhD BSc Manc., FIP  
 (on leave) Reader  
 Latham, R., MA Comb., PhD  
 (High Temp. P.) Reader  
 Garton, W. R. S., BSc (Spectroscopy) Reader  
 Hopkins, H. H., PhD, DIC, FIP  
 (Optics) Reader  
 Welford, W., PhD BSc Reader  
 Allan, H. R., MA Comb., PhD Sr. Lectr.  
 Barford, N. C., MA Comb., BSc Sr. Lectr.  
 Newth, J. A., BA BSc Sr. Lectr.  
 Coles, R. R., DPhil Oxon, BSc Wales Sr. Lectr.  
 Goldsch, S. J., BSc PhD Sr. Lectr.  
 Astbury, J. P., MA MSc PhD Sr. Lectr.  
 Mandel, L., PhD  
 (Instrument Technol.) Sr. Lectr.  
 Kellner, Miss Charlotte, PhD Lectr.  
 Aharoni, J., PhD Berl. Lectr.  
 Butterworth, I., BSc PhD Lectr.

Leggerton, N. D., BSc PhD, DIC	Lectr.	Page, A. B. P., PhD	(Appl. E.) Reader
Twiddy, N. D., BSc PhD		Way, M. J., MA	(Appl. E.) Reader
(Instrument Technol.) Lectr.		Brown, Mrs. Lilie E., PhD BSc	Lectr.
Wheeler, C. B., BSc	(High Temp. P.) Lectr.	Murray, D. R. P., MA PhD Cawb.	Lectr.
Penn, H. J., MSc	(High Temp. P.) Lectr.	Gorvett, H., PhD BSc	Lectr.
Follininski, A., PhD	(High Temp. P.) Lectr.	Waloff, Nadejda, PhD	Lectr.
Thorne, Lady Anne, MA DPhil Oxon.		Davies, R. G., MSc, DIC	Lectr.
(Spectroscopy) Lectr.		Higgins, A. E. H., DIC	Lectr.
Parfitt, G. G., BSc PhD, DIC	Lectr.	Kernack, Doris M., BSc PhD, DIC	Lectr.
Wilson, R. L., BSc W. Ont., MSc McGill, PhD, DIC	Lectr.	Borystynski, K., PhD Passau, DIC	Lectr.
Loveless, C.	Lectr.	Goto, H. E., BSc	Lectr.
Quenby, J., PhD, DIC	Lectr.	Southwood, T. R. E., BSc PhD	Lectr.
Binnie, D. M., BSc PhD	Lectr.	Blackith, R. E., BSc PhD	Lectr.
Haines, M. G., PhD BSc	Lectr.	Siddons, J. W., BSc	Lectr.
Bradley, D. J., BSc PhD		Wilson, Mrs. Elizabeth, BSc PhD, DIC	Lectr.
(Instrument Technol.) Lectr.		Lewis, C. T., MA PhD	Lectr.
Kibble, T. W. B., MA BSc PhD Edin.		Call, F., PhD BSc	Lectr.
(Theoret. P.) Lectr.		Hague, N. G., BSc PhD	Lectr.
Streeter, R. F., BSc PhD, DIC	Lectr.	Dempster, J. P., BSc PhD, DIC	Lectr.
Davison, M., MA DPhil Oxon.	Lectr.		
Park, J. G., MA DPhil Oxon.			
(Solid State P.) Lectr.			
Skillicorn, I. O., PhD, DIC	Lectr.		
Haigh, G., BSc PhD, DIC	Lectr.		
Hallett, J.	Lectr.		

**Zoology and Applied Entomology**

Richards, O. W., MA DSc Oxon., FRS	Prof., Hd. of Dept.
Peters, B. G., MSc BSc, PhD (Parasitol.)	Prof.
Hewer, H. R., OBE, MSc, DIC (Zool.)	Reader

**AGRICULTURAL RESEARCH COUNCIL  
UNIT OF PLANT PHYSIOLOGY**

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Research Staff	
Keys, A. J., PhD	
Martin, R. V.	
Mer, C. L., PhD	
Bird, I. F., MSc	
Hurd, R. G., PhD	
Brighouse, H. M., BSc	

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**MEDICAL OFFICER.** C. Grey, MB BCh Oxon  
**SENIOR TUTOR (women students)** Lady Anne Thorne, MA DPhil Oxon  
**SENIOR WARDEN.** A. Stephenson, OBE, MA Camb.  
**WARDENS.** Best Hall, F. G. Irving, MEng Lse., DIC, Falmouth Hall, K. E. Weale, PhD, DIC; Garden Hall, P. Minton, BSc(Eng); Keogh Hall, J. R. Butler, MA PhD; Selkirk Hall, C. C. Sanford, MC, BA Camb; Tizard Hall, A. Cameron, PhD; Weeks Hall, J. F. Levy, BSc

**GENERAL INFORMATION**

The coll. was founded by royal charter in 1907 'to give the highest specialized instruction and to provide the fullest equipment for the most advanced eng. and res. in various branches of sci., especially in its applicn. to industry'. It is a federation of 3 instns. of earlier origin—the Royal Coll. of Science, the Royal Sch. of Mines and the City and Guilds Coll. The coll. was admitted as a sch. of the Univ. of London in 1908.

The three constituent colls. have kept their

identity, and, closely linked within the Imperial Coll. framework, they divide the work of the Imperial Coll. between them. The Royal Coll. of Science conducts the work in pure sci., chem., phys., maths., bot., zool., geol. and meteorol.; the Royal Sch. of Mines concentrates on mining, mineral technol., metall., mining geol., oil technol., geochem. and appl. geophys.; the City and Guilds Coll. is concerned with the main branches of engin., aeronaut., chem., civil, elect., and mech.

**U.K.—ENGLAND (LONDON)**

The coll. was selected in 1953 to be the spearhead of the national attack on the problem of providing more univ.-trained scientists and engineers. The coll. agreed to double its size, to provide for 3000 students and to carry out this operation in 10 yrs. By the beginning of the session 1961-62 student numbers had risen to a total of 2725 and over 44 new posts as prof. or reader in the Univ. of London had been establd. and filled at the coll.

**COLLEGE PREMISES.** The main academic devel. is taking place on the 16-acre site bounded by Queen's Gate, Prince Consort Rd., Exhibition Rd. and Imperial Institute Rd. The expansion plan involves major new bldgs. and many alterations and adaptations in those existing. The first new bldg., to house the depts. of aeronautics and chem. engin., was opened in 1957, while 2 further projects, a new bldg. for phys. and the first section of a large new mech. engin. block, were completed and occupied during the session 1959-60. The 2nd stage of the mech. engin. block, and new bldgs. for electr. engin. and civil engin. will be brought into use during the session 1962-63. An extension bldg. to the R. Sch. of Mines is under constn. and work has also started on a new bldg. for biochem., in aid of which a benefaction has been made by the Wolfson Foundation. A large scheme for new halls of residence was made possible by the acquisition in 1956 of the neighbouring Prince's Gdns. The first new hall, provided through the generosity of Messrs Vickers Ltd., was opened in Sept. 1959, and, on the south side of Prince's Gdns., work is in progress on 4 more halls and gen. refectory facilities which are due for completion in 1962.

**CONSTITUTION.** The edmus. of the Imperial Coll. is vested in a governing body of 52 members representing the crown, the self-governing countries of the Commonwealth, the Minister of Educn., the Univ. of London, the London County Council, the City and Guilds of London Inst., the Royal Commissioners for the Exhibition of 1851, the Royal Society, the teaching staff of the Imperial Coll., and professional socs. The rector of the Imperial Coll. and the deans of the 3 constituent colls. are members *ex officio*. The bd. of studies is responsible to the governing body for the academic work of the coll. and consists of the rector (chairman), all the profs. of the coll. and 6 non-professional members.

**INCOME (1959-60).** Total income: £2,366,801 (govt. grants, 75 per cent.; self-balancing res. contracts, 14 per cent.; fees, 6 per cent.; other sources, 5 per cent.).

**LIBRARIES.** Each dept. has its own library for reference and loan. Central library services are provided in the Lynn Playfair library (95,000 vols.). The Haldane library (11,000 vols.) is the non-sci. library. In addn. the library of the Science Museum is available for the use of students.

**Large FIELD STATION** at Silwood park nr. Ascot; **MINE** at Tywarthale nr. Truro.

**ADMISSION.** See p. 1056 and Appendix III.

The min. age for admission is 17. Women are admitted on the same terms as men.

**FIRST DEGREES (of Univ. of London) AND DIPLOMAS.** The same courses and exams serve for the coll. associateship and for the BSc (spec.) or BSc(Eng) degree of the Univ. of London. Courses for degrees with hon. (each 3 yrs.) are as follows: BSc (spec.) and ARCS in bot., chem., geol., maths., phys., zool.; BSc (spec.) and ARSM in mining geol. or technol.; BSc(Eng) and ARSM in metall., mining, mineral technol., BSc(Eng) and ACGI in aeronaut. engin., chem. engin., civil engin., electr. engin., mech. engin.

**HIGHER DEGREES (of Univ. of London) AND DIPLOMAS.** Courses of res. and advanced study open to grade of other univs. and leading to the PhD in a min. of a calendar yrs. from BSc, to the MSc and also to the DIC, are given in the following depts. and sub-depts. of the coll.: aeronautics (aerodynamics & aeronaut. structures); biochem., bot. & plant technol. (analyt. cytol. & bacteriol. & microbiol., ecol., genetics, paleobot., plant pathol. & mycol., plant physiol., taxonomy, timber technol.); chem. engin. & chem. technol. (chem. engin., combustion, fuel, high pressure, ceramic & nuclear technol., chem. phys.), chem. (phys., org., inorg., analyt.); civil engin. (concrete structures & technol., engin. hydrol., highways, hydraulic engin. & fluid mechanics, hydro-power, pub. health, soil mechanics, struct. engin.); electr. engin. (appl. electron phys., automatic control systems, communens & electronics, electr. machines & power systems, electr. traction, applns. of engin. in med. & biol., materials in electr. engin.), geol. (appl. geophys., engin. geol., geochem., micropaleontol. & palaeo-eool., mining geol., ore microscopy, mineral exploration, oil technol., petroleum reservoir engin.), maths. (mathl. phys., pure maths., appl. maths., stats, numerical analysis, mathl. techniques of operational res.), mech. engin. (appl. mechanics, thermal power & process engin., nuclear power, production engin., operational res. & management studies), metall. (extraction metall., phys. metall.), meteorol., mining & mineral technol. (mining, mineral technol.), phys. (high energy phys., theoret. phys., cosmic ray phys., electron phys., technical optics, instrument technol., cloud phys., high temperature phys., spectroscopy, acoustics, rock magnetism), zool. & appl. entomol. (zool., entomol., appl. entomol., parasitol., nematol.).

Postgrad. courses open to grads. of other univs. and leading to the DIC normally in 1 yr. from BSc and in some cases to the MSc are given in: aeronautics, bot. & plant technol. (microbiol., plant pathol.); chem. engin. & chem. technol. (chem. engin., chem. technol., indust. safety, nuclear technol. (chem.)); chem. (analytical chem.); civil engin. (struct. engin., concrete structures & technol., hydro-power engin., engin. hydrol., soil mechanics, pub. health engin., highway engin.); electr. engin. (electr. machines &

power systems, communica., & electronics, automatic control systems, appl. electron phys., elect. traction, materials in elect. engin., appl. of engin. in med. & biol.), geol. (engin. geol., micropaleontology & palaeo-eol., mineral exploration, ore microscopy, petroleum reservoir engin., appl. geophysics); maths. (pure maths., appl. maths., math. phys., stats., mathl. techniques of operational res., numerical analysis); mech. engin. (appl. mechanics, thermal power & process engin., prodn. engin., operational res. & management studies, nuclear power); meteorol., mining & mineral technol. (mining); phys. (tech. optics, photo-electronics, phys.); zool. & appl. entomol. (appl. entomol., nematol.).

In collaboration with L.S.E. the coll. arranges postgrad. studies in technol., econ. and admin. The courses in pub. health engin. are run in conjunction with the London School of Hygiene.

**ASSOCIATIONS WITH OTHER INSTIT.** An arrangement has been made for the exchange of staff and students with the Swiss Federal Inst. of Technol., Zurich; and for exchange studentships with the Techn. Hochschule Aachen, and with a German inst. The Massachusetts Inst. of Technol. also stands in special relationship to the coll.

**FEEs.** Registration (undergrad. and postgrad.), £21; tuition, undergrad. and postgrad. res. and courses (incl. union membership) sci. and engin., £75 p.a. (postgrad. course in nuclear power, £124 p.a.).

**Note.** from Oct. 1963, sessional fee for undergrads, £85 p.a. incl. registration and exam fees. Postgrad. students working for the DSc only will pay a dipl. fee of £5, in addition to tuition fee of £75.

**ACADEMIC YEAR.** Oct. to June; 3 terms of 10 wks. each.

**SCHOLARSHIPS.** Royal scholsps., entrance scholsps. and exhibitions for undergrad. courses awarded on an exam. held at schs.; sp. scholsps. available in mining.

**POSTGRADUATE AWARDS** open to grads. of other univs. See p. 910.

**APPOINTMENTS BOARD.** The coll. appts. bd. assists associates and members of the coll. to find employment on the completion of their coll. courses.

**GRADUATES' ASSOCIATIONS.** Each constituent coll. has its own old students' assocn., namely, the Royal Coll. of Science Assocn., the Royal Sch. of Mines Assocn. and the Old Centralians Assocn. The latter perpetuates the original name of the

City and Guilds Coll. and has branches in many parts of the world.

**STUDENT RESIDENCES.** Beit Hall, Prince Consort Rd., S.W. 7 (93 m., 17 w.), fees £66-£68 p.a.; Garden Hall, 12 Prince's Gdns., S.W. 7 (38 m.), fees, £58-£68 p.a.; Weeks Hall, Prince's Gdns., S.W. 7 (56 m.), fees £74 p.a. On the S. side of Prince's Gdns., 4 new halls (Palmouth Hall, Keogh Hall, Selkirk Hall and Tizard Hall) will be occupied in 1964-65, there will be accomm. for 384 men, fees £74 p.a. Catering available in coll. refectories at cost of about 10s. a day. All enquiries, except from prospective undergrad. students, to clerk to halls of residence, Imperial Coll., Prince Consort Rd., S.W. 7 (tel.: Kensington 5111). Prospective undergrad. freshmen should contact the dept. they hope to enter.

**STUDENT HEALTH SERVICE.** The coll. health room at 13 Prince's Gdns. has 3 full-time nurses and a doctor attends during certain hours each day. Overseas students are required to undergo a med. exam. on entry to the coll.

**STUDENTS' UNION.** The Imperial Coll. union bldg. on Prince Consort Rd. is the home of various students' orgns. incl. the Imperial Coll. union, the Royal Coll. of Science union, the Royal Sch. of Mines union and the City and Guilds Coll. union. Accomm. includes refectories, reading rooms, office rooms, a concert hall and a gymnasium. The coll. bookstall is in the Beit bldg., adjoining the union.

The Imperial Coll. union, guided by the union council, whose members are mainly present students, looks after the leisure side of the student's life and controls and encourages the clubs and socs., about 100 in all, which among them cover all sides of athletic and soc. activities.

**PUBLICATIONS.** *Calendar* (58.), *Prospectus*, *Postgrad. Courses and Res. Booklet*; individual dept. pamphlets on postgrad. courses and res.; *Shorter Postgraduate Courses* (each term); *Careers Pamphlets*; *Annual Reports*; *Res. Reports* of the three constituent colls., the Royal Coll. of Science, the Royal Sch. of Mines and the City & Guilds Coll. (publ. by the colls. in turn, each coll. issuing a report every 3rd yr.); *Inaugural Lectures* (bound vols. on appln. to registrar; individual lectures, 1957 to date (on sale through Modern Book Co. Ltd., 19 Princes St., W2); *Code of Practice against Radiation Hazards* (28.); *Annual Report of vacation try. comm.*; *A Short History of the Coll. 1845-1945* (publ. on the occasion of the centenary of the Royal Coll. of Chemistry); *The Royal Charter of the Imperial Coll. of Sci. and Technol.* (publ. on the occasion of the charter jubilee, 1957).

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** See p. 1106.

**NEW DEPARTMENTS AND CHAIRS.** New chairs: oil technol.; mineral technol.; appl. geochem.; cloud phys.; hist. of sci. and technol. Title of

prof. of org. chem. conferred on L. N. Owen, of prof. of theoret. phys. on P. T. Matthews, of prof. of molecular spectroscopy on A. G. Gaydon.

**RETIREMENTS.** Prof. D. M. Newitt (chem.



engn.), A. G. Pollard (chem.), A. J. Hatley (maths.), E. J. Pryor (mining)

**RESEARCHERS.** Prof. J. M. Kay (nuclear power, mech. engn.) to industry, J. Lamb (electr. engn.) to James Watt chair of electr. engn., Glas.; Mrs. H. M. Morrison (development sec.), owing to ill-health.

**DEATHS.** Prof. Emer. C. W. Dannatt, Prof. Emer. H. V. A. Briscoe, Prof. Emer. F. G. Gregory, Prof. H. B. Square; J. M. Corin (sec. of Imperial Coll. and clerk to the governors).

#### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2602	141
Women	123	4
Total	2725	145

**Distribution by Faculties.** Engn., 1502, sci., 1223 Total 2725

Included in the full-time student numbers above are —

Postgraduate students, 992.

New admissions, 1039

Students from other countries, 624 (Countries from which largest numbers came: India, 81; Canada, 81; Pakistan, 60; S. Africa, 30).

**DEGREES AWARDED (by Univ. of London)**  
(1960-61) Engn.: BSc(Eng), 260; MSc(Eng), 17, PhD, 37. Sci.: BSc, 215; MSc, 19, PhD, 108, DSc, 8. Total number of first degrees awarded, 475

**DIPLOMAS, ETC., AWARDED (1960-61).** Engn.: ARSM, 42; ACGI, 216, DIC, 214. Sci.: ARSM, 17, ARCS, 184; DIC, 173.

[Information compiled as at 1/8/62]

## KING'S COLLEGE

Founded 1829

Postal Address: Strand, London, W.C.2, England

Telephone: Temple Bar 5454

**CHAIRMAN OF THE DELEGACY**—The Hon. Sir ARTHUR J. P. HOWARD, KBE, CVO

**TREASURER**—Sir ANGUS GILLAN, KBE, CMG, MA Oxon

**PRINCIPAL**—P. S. NOBLE, MA *Aberd.* & Camb., Hon. LLD *Aberd.*

**DEAN**—Rev. Canon S. H. EVANS, MA BD *Dorh.*

**SECRETARY**—I. P. SEAW, MA Oxon

**LIBRARIAN**—K. GARRICK, MA *Leeds*

**REGISTRAR**—A. DAVIES, MA *Wales*

## TEACHING STAFF

[†=Part-Time]

<b>Anatomy, Descriptive and Surgical</b>		Cassell, P. G., MB BS	Lectr.
Nicol, T., DSc Glas. & Lond., MD Glas., FRCS, FRCSEd	Prof.	Quantock, D. C., MB BS	Lectr.
Wakeley, Sir Cecil, BSc, KBE, Hon LLD Glas., DSc, FRCS, FRCSEd	†Lectr.	Willson-Pepper, C. R., MB BS	Lectr.
Bilbey, D. L. J., TD, MB BS PhD	Reader	Vernon-Roberts, B., MB BS	Lectr.
McMinn, R. M. H., MD Glas., PhD <i>Sheff.</i>	Reader	Carson, I., BDS	
Charles, L. M., BSc MB BCH <i>Wales</i>	Sc. Lectr.	Kennedy, J. A., MB BS (Sp. Dental Anat. & Histol.)	†Lectr.
Cordingley, J. L., MB BS <i>Syd.</i>	Lectr.		
Dummer, W. F.	Lectr.	<b>Biochemistry</b>	
		Harris, H., MA MD Camb	Prof.

Bell, E. A., BSc *Durb.*, MA PhD *Dub.*,  
FRIC  
Darbre, A., BSc PhD *Bur.*  
Bliss, K. H. F., BSc PhD  
Whittaker, Mary, MSc PhD  
Spencer, N., BSc *Leeds*, PhD

Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Biology**, see Bot., also Zool.

### Biophysics

Randall, Sir John, DSc *Manc.*, FRS,  
FIP Prof.  
Wilkins, M. H. F., MA *Cambr.*, PhD *Bur.*,  
FRS Hon. Lectr.  
Burge, R. E., BSc PhD Lectr.  
Silvester, N. R., BSc PhD Asst. Lectr.

### Botany

Sutcliffe, J. F., PhD *Leeds*, DSc Prof.  
..... (Plant Biochem.) Reader  
Metcalfe, G., MA PhD *Cambr.* Lectr.  
Carpenter, J., BA *Cambr.* Lectr.  
Symonds, Kathleen V., BSc PhD Lectr.  
Wilkins, M. B., BSc PhD Lectr.  
Barton, R., MSc PhD Lectr.  
Keya, Mrs. Jessie E., BSc *Durb.*, PhD Asst. Lectr.  
Cresswell, C. F., BSc *Rhodes*, MSc  
PhD *Bur.* Asst. Lectr.

### Chemistry

Hay, D. H., MSc *Wales*, DSc *Manc.*,  
PhD, FRIC, FRS Daniell Prof.  
Style, D. W. G., BSc PhD Prof.  
Robertson, A. J. B., MA PhD *Cambr.*  
(Phys. C.) Reader  
Gold, V., DSc (Phys.-Org. C) Reader  
Crombie, L., DSc, FRIC (Org. C.) Reader  
Beattie, I. R., BSc PhD Reader  
Hulme, R., BSc MA *Oxon.*, FRIC Lectr.  
Cudgoin, J. I. G., BSc PhD, FRIC Lectr.  
Rae, C. W., BSc PhD Lectr.  
Satchell, D. P. N., BSc PhD Lectr.  
Cox, J. S., MSc PhD Lectr.  
Peacock, T. E., BSc PhD *Durb.* Asst. Lectr.  
Perkins, M. J., BSc PhD Asst. Lectr.

### Classics, see also Hist., Anc.

Magness, W. S., MA *Dub.* (Latin) Prof.  
Winington-Ington, R. P., MA *Cambr.*,  
FBA (Greek) Prof.  
Handford, S. A., MA *Oxon.* Reader  
Gossage, A. J., MA *Oxon.*, PhD Sr. Lectr.  
Hansworth, J. B., MA *Oxon.* Lectr.  
Courtney, E., BA *Dub.*, MA *Oxon.* Lectr.  
Linnott, A. W., MA *Oxon.* Asst. Lectr.  
McNelly, Mary, BA *Oxon.* Asst. Lectr.

### Divinity

Nischan, D. E., MA *Oxon.* Prof.  
Hooker, Morna D., MA *Bur.* Lectr.

### Ecclesiastical History

Dugmore, C. W., MA DD *Oxon.* Prof.  
Collinson, P., MA *Cambr.*, PhD Lectr.

### Education

Judges, A. V., BA DSc (Econ.) (Hist. of E.) Prof.  
Beshe, A. C. F., MA Reader  
Kang, E. J., MA *Manc.*, PhD (Compar. E.) Reader  
Blackwell, Mrs. Anne M., BSc MA  
Sr. Lectr., Dir. of Postgrad. Tg.  
Brown, P. P., BA *Oxon.* Sr. Lectr.  
Wakford, Mrs. Dorothy A., BA Lectr.  
Murray, Mrs. Freda M., BSc Lectr.  
Parish, E., Laura, MA Lectr.  
Muir, J. V., BA *Oxon.* Lectr.

### Engineering, Chemical

Watkins, S. B., MSc *Wales*, FRIC Reader, Dir. of Studies  
Morris, D. R., BSc *Bur.*, PhD Lectr.

### Engineering, Civil

Ross, A. D., BSc PhD *Edin.*, MICE Prof.  
Nash, J. K. T. L., MA MA *Dub.* Prof.  
Zarek, J. M., BSc *St. And.*, PhD (Engin. Sci.) Reader  
Jenkins, W. McL., BSc PhD *Glar.* Lectr.  
Dixon, R. K., MSc (Eng) Lectr.  
Hilton, J. M., BSc (Eng) Lectr.  
Chickson, J. A., MSc *Bur.* Lectr.  
England, G. L., BSc (Eng) PhD Asst. Lectr.

### Engineering, Electrical

Gregg, J., PhD *Bur.*, MSc (Eng), MICE  
Arnold, A. H. M., PhD *Deng. Loo*, MICE Prof.  
Fraser, W., MSc (Eng), MICE Sr. Lectr.  
Platt, G. H., MScTech *Manc.* Sr. Lectr.  
Doeley, E. M. S., BSc PhD Lectr.  
Burt, R. B., MScTech *Manc.*, PhD *Liv.* Lectr.  
Freeman, E. M., BSc (Eng) Lectr.

### Engineering, Mechanical

Kastner, L. J., MA *Cambr.*, MSc *Manc.*,  
MIMechE Prof.  
Rose, H. E., PhD *Manc.*, DSc (Eng),  
MIMechE (Powder Technol.) Prof.  
Williams, T. J., MSc *Bur.*, BSc PhD Reader  
Pattison, R., BSc (Eng), MIMechE Sr. Lectr.  
Gosney, W. B., BSc (Eng) Lectr.  
Powell, E. J., BSc (Eng) Lectr.  
Smith, A. A., MA PhD *Cambr.* (Metall.) Lectr.  
Tindal, M. J., BScTech *Manc.* Lectr.

### English Language and Literature

Bulough, G., MA *Manc.* Prof.  
Garnonsbury, G. N., MA *Cambr.*, FSA  
(S. Lang.) Prof.  
Armstrong, W. A., MA *Sheff.*, PhD *Yale* Reader  
Crow, J. W., MA *Oxon.* Reader  
Sheard, J. A., BA PhD (Philol.) Lectr.

Yarker, P. M., MA  
 Hill, R. F., BLitt Oxon., BA  
 Waldron, R. A., MA  
 Mottram, E. N. W., MA Camb.  
 (American Lit.) Lectr.  
 Pearson, D. A., MA Burn.  
 Pison, J. P., MA Oxon. Asst. Lectr.  
 Seymour, M. C., BA DPhil Oxon. Asst. Lectr.  
 Vernon, P. F., MA Asst. Lectr.

### French

Cocking, J. M., MA Prof.  
 Hackett, W. Mary, MA Oxon. & Manc.,  
 DPhil Oxon. (Romance Philol.) Reader  
 Landers, W. M., TD, BA PhD Sr. Lectr.  
 Weightman, J. G., BA Dark,  
 L&L Poitiers, PhD Lectr.  
 Barron, Jean D., BA PhD Lectr.  
 Smith, F. R., MA Oxon. Lectr.  
 Johnson, A. H., MA Wales Lectr.  
 Stables, E., MA Asst. Lectr.  
 Clarke, D. R., BA Camb. Asst. Lectr.  
 Howells, B. P., BA Asst. Lectr.  
 2 Assts

### Geography

(In conjunction with staff of London School of Economics)

Woodbridge, S. W., CBE, DSc, FRs Prof.  
 Pugh, J. C., MA Camb., PhD Reader  
 Coleman, Alice M., MA Lectr.  
 Yates, E. M., MSc PhD Lectr.  
 Bird, J. H., BA PhD Lectr.  
 Brunson, D., BSc Asst. Lectr.  
 Lawrence, G. R. P., MSc Asst. Lectr.

### Geology

Taylor, J. H., AM Harv., BSc PhD,  
 FGS, FRs Prof.  
 Prentice, J. E., BSc PhD Reader  
 Howie, R. A., MA PhD Camb. Reader  
 Elwell, R. W. D., MSc PhD Lectr.  
 Hancock, J. M., MA PhD Camb. Lectr.  
 Jones, D. G., MSc Wales Lectr.  
 Richardson, J. B., BSc PhD Sheff. Lectr.  
 Hall, A., BSc Asst. Lectr.

### German

Noeman, F., OBE, MA, FSA Prof.  
 Gilbert, Mary E. C. M., DrPhil Berl. Reader  
 Thoma, H. H. K., DrPhil Munich Sr. Lectr.  
 Middleton, J. C., MA DPhil Oxon. Lectr.  
 Graham, Mrs. Ilse, BA PhD Lectr.  
 Buckley, R. J., BA Asst. Lectr.  
 2 Lektors Asst. Lectr.

### Greek, Modern, and Byzantine History, Language and Literature

..... Korais Prof.

History, see also Greek, and Eccles. Hist.

Dickens, A. G., MA Oxon Prof.  
 Graham, G. S., MA Qw., AM Harv.,  
 PhD Camb. (Imperial H.) Rhodes Prof.  
 Howard, C. H. D., MA Oxon Reader  
 Hodgson, G. A. J., MA Reader  
 Duggan, C., PhD Camb., BA Lectr.  
 Flint, J. E., MA Camb., PhD Lectr.  
 Rosevear, H. G., BA Camb. Lectr.  
 Brown, R. A., MA DPhil Oxon., FSA Lectr.  
 Marshall, P. J., BA Oxon Lectr.  
 Roy, I., MA St. And. Lectr.

Wagner, Sir Anthony, KCVO, DLitt Oxon.,  
 FSA (Heraldic Studies) Hon. Adviser

### History, Ancient

Seallard, H. H., MA Camb., PhD, FBA, FSA Prof.

### History and Philosophy of Religion

Lewis, H. D., MA Wales, BLitt Oxon. Prof.  
 Parrander, E. G., MA DD  
 Owen, H. P., MA Oxon. (Compar. Study) Reader  
 Lectr.

### Law

Graveson, R. H., SJD Harv., LL.D. Sheff. Prof.  
 & Lond., PhD (English L.) Prof.  
 Crane, F. R., LLB Prof.  
 Nokes, G. D., LL.D. Prof.  
 Kraljic, A. K. R., LL.M. PhD Reader  
 James, T. E., MA BCL Oxon., PhD Reader  
 Davies, C. E. P., MA BCL Oxon. Sr. Lectr.  
 Wellwood, J. W., MA Dub. † Lectr.  
 Bland, A. J., MA BCL Oxon. Lectr.  
 Morrison, C. A., MA Abad., BA Oxon. Lectr.  
 Draper, G. I. A. D., LL.M. Lectr.  
 Chloose, A. G., MA Oxon. Lectr.  
 Hughes, A. D., MA BCL Oxon. Lectr.  
 Hacking, M. A., LL.B. PhD Lectr.  
 Farrand, J. T., LL.B. Lectr.  
 Michaels, Mrs. Naomi E., LL.B. Asst. Lectr.  
 Cockram, Gail-Maryse G. E., LL.M. Asst. Lectr.

### Mathematics, Pure and Applied

Samuel, J. G., MA Belf., PhD Camb. Prof.  
 Bonda, H., MA Camb., FRs Prof.  
 Frohlich, A., BSc PhD Brst Prof.  
 Kilminster, C. W., MSc PhD Reader  
 Seifman, P. G., MA PhD Reader  
 Pines, F. A. E., BSc W. Ox., MA Tor.,  
 DSc Göttingen Tech., PhD Camb. Reader  
 Huggins, P. J., MA PhD Camb. Reader  
 Edwards, B. A., CBE, MSc Wales Sr. Lectr.  
 Tams, S. R., PhD Camb., MSc Sr. Lectr.  
 Reeve, J. E., MSc Lectr.  
 Rosenblatt, S., MSc PhD Syd Lectr.  
 Tyrrell, J. A., BSc PhD Lectr.  
 Ashton, Winifred D., BSc MA Leeds Asst. Lectr.  
 Lee, A. S. -T., BSc Asst. Lectr.

### New Testament Studies

Evans, C. F., MA Camb. Prof.

# KING'S COLLEGE

1111

## Old Testament Studies

Ackroyd, P. R., MA PhD Camb, MTh  
*Semuel Davidson Prof.*

## Palmography

Brown, T. J., MA Oxon., FSA *Prof*

## Pharmacology

Brownlee, G., DSc Glas., PhD *Prof.*  
 Paterson, G., BSc Glas., MSc PhD *Lectr.*  
 Wilson, A. B., BSc PhD MB BS *Lectr.*  
 Birmingham, A. T., BSc MB BS *Lectr.*

## Philology, see English, and French

## Philosophy

Findlay, J. N., MA Oxon. & S.A.,  
 PhD Glas., FRA *Prof.*  
 Vesey, G. N. A., MA MLitt Camb. *Lectr.*  
 Pole, D. L. S., BA Oxon. & Lond., PhD *Lectr.*  
 Ashby, R. W., BA PhD *Asst. Lectr.*

## Physics

Price, W. C., ScD Camb., FIP, FRS  
*Whitstone Prof.*  
 Domb, C., MA Camb. & Oxon., PhD Camb.  
 (Theoret. P.) *Prof.*  
 Champion, F. C., MA PhD Camb., FIP  
 (Exper. P.) *Prof.*

Burge, E. J., BSc PhD Brist., MA Oxon.,  
 FIP *Reader*

Fisher, M. E., BSc PhD *Reader*

Chapman, F. W., MSc PhD *Sr. Lectr.*

McEwen, Marjorie B., PhD St. And., BSc *Sr. Lectr.*

Stokes, A. R., MA PhD Camb. *Sr. Lectr.*

Curling, C. D., MA Camb. *Lectr.*

Wilkinson, G. R., BSc PhD *Lectr.*

Dean, P. J., BSc PhD *Lectr.*

Danielian, A., BSc PhD Nott. *Lectr.*

Giles, R. A., BSc *Asst. Lectr.*

Jones, D. L., BSc *Asst. Lectr.*

4 Demrs.

## Physiology

D'Silva, J. L., MB BS DSc, MRCP *Prof.*

Buller, A. J., BSc MB BS *Reader*  
 Mendel, D., MD, MRCP *Lectr.*  
 Speira, R. L., BSc PhD Durh. *Lectr.*  
 Taylor, A., BSc MB BS *Lectr.*  
 Lewis, D. M., BA MB BChir Camb. *Lectr.*  
 Winterton, M. C., MB BS *Lectr.*  
 Ridge, R. M. A. F., BSc St'ton *Lectr.*  
 Newrick, C. W., BA MB BChir Camb. *Lectr.*

## Portuguese

Boxer, C. R., Hon. DLitt & Phil Utrecht &  
 Lisbon, FBA *Camões Prof.*  
 Rebelo, L. de S., Licent. Let. Lisbon,  
 MA Coimbra *Lectr.*

## Romance Philology, see French

## Spanish Studies

Parker, A. A., MA Camb. *Cervantes Prof.*  
 Hamilton, Miss. Rita, LL.B. Lalla, BA *Sr. Lectr.*  
 Nadal, R. M., Licent. Law Madrid *Lectr.*  
 Sage, J. W., MA *Lectr.*  
 Cummins, J. S., BA PhD *Lectr.*  
 Thompson, Jennifer, BA *Asst. Lectr.*

## Theology, see p. 1151

## War Studies

Howard, M. E., MC, MA Oxon. *Reader, Dir. of Studies*

## Zoology and Animal Biology

Daves, B., DSc *Prof.*  
 Arthur, D. R., MSc Wales, DSc *Reader*  
 Bell, L. G. E., BSc PhD, FRIC *Lectr.*  
 Cox, C. B., MA Oxon., PhD Camb. *Lectr.*  
 Barnard, E. A., BSc PhD *Lectr.*  
 Wolpert, L., BSc(Eng) Read, PhD *Lectr.*  
 Cox, F. E., BSc Ewe. *Lectr.*  
 Hawkins, Shirley E., BSc PhD *Lectr.*  
 Eltringham, S. K., BSc PhD St'ton *Asst. Lectr.*  
 . . . *Asst. Lectr.*

## ADMINISTRATIVE AND OTHER STAFF

Accountant R. A. Chappell, Bursar W. B. E. Euden, BA, Chaplain Rev P. E. Coleman, LL.B. Tutor to Women Students Helen M. Hudson, MA Durh., DUDgen.

Warden King's Coll. Hall, E. Courtney, MA;  
 Halliday Hall, J. B. Hainsworth, MA Radiation  
 Protection Officer K. D. Outerbridge, MA.

## GENERAL INFORMATION

Founded by royal charter in 1839 for 'instruction in the various branches of literature and sci. and the doctrines and duties of Christianity', King's Coll. consisted at first of a sch. and depts. of general lit., sci. and med., to which were added successively engin., theol. and oriental depts. The hosp. was built in 1839; the evg. classes were started in 1836, and a women's dept. in 1881. In 1910 the coll. sch. became a separate corpora-

tion, the hosp. and advanced med. sch. were made indep., the other depts. (except the theol.) doing work of univ. standard were incorporated in the Univ. of London with the name of Univ. of London King's Coll., while the council remained the governing body of the theol. dept., which became a sch. of the univ. The coll. as a whole retained the name of King's Coll., London. In 1915 the arts and sci. depts. of King's Coll. for

Women, previously housed in Kensington, were transferred to the Strand bldg. of King's Coll., and the household & acc. dept. to new bldgs. on Campden Hill. The dept. of household & acc. became a separate instn. in 1938 under the title of King's Coll. of Household and Soc. Sci., now Queen Elizabeth Coll. In 1917 the oriental dept. was transferred to the new Sch. of Oriental Studies. The Sch. of Slavonic and East European Studies, founded in 1915, was constituted a separate dept. of the univ. in 1932.

**CONSTITUTION.** Univ. of London King's Coll., consisting of the five faces named below, is incorporated in the Univ. of London, and is governed by a delegation of the senate. It is also, with King's Coll. Theol. Dept. (see p. 1151), an integral part of King's Coll., London. The principal of King's Coll., London is apptd. by the crown, the dean of King's Coll. Theol. Dept., elected by the council, is equally dean of the whole coll. The sec. and librarian and registrar also serve the whole coll. and are apptd. by the governing bodies jointly. The fac. of arts includes profs. of div. and eccl. hist.

**FACULTIES AND DEANS.** *Arts*, Prof. C. R. Bover (Portuguese); *engin.*, Prof. A. H. M. Arnold (electr. engin.); *law*, Prof. R. H. Graveson; *med. sci.*, Prof. J. L. D'Silva (physiol.); *nat. sci.*, Prof. D. W. G. Style (chem.)

**LIBRARIES.** About 200,000 vols. In addn. to the general library there are the following sp. libraries: (1) the Maesden (philol.), (2) Wheatstone (electr. and kindred subjs.), (3) Skist and Furnivall (philol. & Engl. lit.), (4) Ronald Burrows library (mediev. & mod. Greek), (5) Frida Mond (Goethe & German lit.), (6) T. R. R. Stebbing (zool.), (7) F. D. Maurice library, (8) Box library (Semitic studies). There are also the following dept. libraries: *anat. & physiol.*, *bot.*, *chem. engin.*, *chem.*, *classics*, *educn.*, *electr. engin.*, *engin.* (civil & mech.), *French*, *geog.*, *geol.*, *German*, *hist.*, *imperial hist.*, *law*, *maths*, *war studies*, *paleog.*, *pharmacol.*, *phys.*, *Portuguese*, *Spanish*, *zool.*

**LABORATORIES AND MUSEUMS.** *Anat.* (Hughes collection), *comp. anat.*, *biol.*, *bot.*, *chem.*, *chem. engin.*, *engin.*, *geol.* & *mineral.*, *nat. med.*, *metall.*, *pharmacol.*, *phys.*, *physiol.* (incl. biochem. & histol.), *zool.*; Halley Stewart labs. of *phys. res.*, 30 Chesterford Gdns, N.W.3, *bot. out-stn.*, 68 Half Moon Lane, S.E.24, *plant physiol.* lab., Danehurst, Charnson Hill, S.E.5

**ADMISSION** (see p. 1066 and Appendix III). Applicants for admission to the French hon. sch. or for chem. are required to take an entrance test in their schs. Applicants for zool. have a practical test when called for interview. In general the coll. does not admit students who have still to comply with the univ.'s requirements for entry on their respective degree courses, but it does admit to inter. courses in fac. of law.

Applics. from Indian or Pakistan students, whether for undergrad. or for postgrad. work,

must be made through the office of the appropriate high commissioner.

owing to restrictions on space, occas. students cannot be admitted to undergrad. courses unless they are from univs. with which King's Coll. has exchange arrangements in mod. langs.

**FIRST DEGREES** (of Univ. of London). The coll. provides 3-yr. courses for degrees of the Univ. of London as listed below: BA (gen.), BSc (gen.), BA (hons.) in classics, Greek (with Latn), Latin (with Greek), Engl., French, geog., German, hist., maths, philos., Portuguese, Spanish; theol. may be taken for BA (gen.), LL.B.; BSc (spec.) in bot., chem., geog., geol., maths, phys., or zool.; psychol. for BSc (gen.) by inter-coll. arrangement, BSc(Eng).

Pre-clin. courses for MB BS (5 terms). Clin. med. try. at King's Coll. Hosp., St. George's Hosp. or Westminster med. schs.

**HIGHER DEGREES** (of Univ. of London) MA, LL.M., MSc, MSc(Eng), PhD in above 1st degree subjs.; MA in educn.; MSc and PhD also in biochem. or pharmacol.

**DIPLOMAS** Awarded by Univ. of London: academic dipl. in educn. (2 yrs. full-time or 3 yrs. pt.-time). Awarded by the coll.: coll. dipl. in chem. engin. (1 yr. full-time).

**CERTIFICATE.** Awarded by Univ. of London postgrad. cert. in educn. (1 yr.)

The ASSOCIATESHIP of King's Coll. (AKC) is open to men and women who have graduated after 3 yrs.' course and have also attended prescribed courses in divinity and passed appropriate exams.

**RESEARCH AND ADVANCED STUDY.** Special facilities in Engl. (incl. bibliog.), hist. (esp. anc., mediev., mod. and colonial, and war studies), paleog., Portuguese, Spanish, mod. Greek, educn. and several depts. of sci. All facs. accept students for postgrad. courses. A med. res. clin. unit provides res. and teaching in conjunction with the dept. of phys. and sub-dept. of biophys.

**FEES.** Undergrad. (composition fees incl. union membership) arts, £70 p.a. (£75 with geog. or maths, £85 for hon. geog. with subid. geol.), law, £70 p.a., sci., BSc (spec.) maths, £75, BSc (spec.) geog. (if geol. not taken as ancillary subj.), £75 p.a., BSc (spec.) in all other cases and BSc (gen.), £85, mod. (and MB), £150 for 5 terms; engin., £90 p.a. Postgrad. (tuition fees only): arts, MA in educn., £40, MA or PhD in geog., £65 p.a., MA or PhD in other arts subjs., £40 p.a.; law, LL.M. or PhD, £60 p.a.; sci., MSc or PhD in geog., £65 p.a., MSc or PhD in maths, £50 p.a., MSc or PhD in metall. or theoret. phys., £55 p.a., MSc or PhD in other sci. subjs., £75 p.a., med., MSc or PhD, £75 p.a., engin., MSc or PhD, £75.

**ENTRANCE SCHOLARSHIPS** in all facs.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910

**RESIDENCE.** Halliday Hall, South Side, Clapham Common, London, S.W.4 (tel. Tube Hill

5780), for 133 men; fees, £140 to £155 a session King's Coll Hall, Champion Hall, London, S.E. 5 (tel.: Brixton 2558), for 110 men, fees, £130 to £145 a session

A REGISTER OF FORMER STUDENTS is maintained. Membership of the King's Coll London Assocn enables former students to keep in touch with one another and with the coll.

STUDENTS' UNION SOCIETY has its own premises in Cheam House, Surrey St., W.C. 2.

PUBLICATIONS. Separate prospectus for each fac, post free. *Calendar*, 10s. 6d. post free; King's Coll. *Review*; union soc. *Handbook*; King's *Esquaver*; King's *Courier*; King's Coll. London Assocn. *Mag.*; F. J. C. Heathshaw, *History of King's Coll* (Harv., London, 1931, 6/p.).

## THE YEAR 1961

PRINCIPAL BENEFRACTIONS Nuffield Foundation, £16,000 to purchase classical library of Prof P. J. Bak, of Groningen; anon donor, £250,000 for men's hall of residence

NEW DEPARTMENTS AND CHAIRS Dept. of chair of biophys., dept. of war studies. Title of prof. conferred on J. K. T. L. Nash (civil engin.) and Dr. H. E. Ruse (powder technol.).

RETIREMENTS R. A. Jones (French and former sub-dean, fac. of arts); H. M. Clarke (electr. engin.)

RESIGNATIONS. G. H. Jones (law), apptd. fellow, Trinity Coll., Camb., and asst. lectr., Camb.; Dr. G. D. H. Leach (pharmacol.), apptd. hd. of dept. of pharmacol., Bedford Inst. of Technol.; R. N. Smart (hist. & philos. of religion), apptd. to and chair of theol., Birm.

DEATHS Prof Hilda Johnstone (reader in hist., 1914-31); Prof. W. Rose (German dept., 1920-33); Very Rev. N. Sykes (lectr. in hist., 1924-31).

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1647	124
Women	564	51
Total	2211	175

Distribution by Faculties. Arts, 930; engin., 251; law, 275; med., 284; sci., 646. Total 2386.

Included in the figures above are:—

Postgraduate students, 465 (376 full-time, 89 pt-time)

New admissions, 804.

Students from other countries, 188. (Countries from which largest numbers came: Nigeria, 19; U.S.A., 18; Canada, 14)

DEGREES AWARDED (by Univ. of London) (1960-61). Arts BA gen., 9, BA hon., 147; MA, 5, PhD, 5. Engin. BSc(Eng), 62; MSc(Eng), 5; PhD, 3. Law: LLB, 79, LLM, 7, PhD, 1. Sci.: BSc gen., 34, BSc pass., 1, BSc (spec.) hon., 111; MSc, 4, PhD, 15. Total number of first degrees awarded, 443.

DIPLOMAS AWARDED (by Univ. of London) (1960-61). Academic dipl. in educn., 3.

CERTIFICATES AWARDED (by Univ. of London) (1960-61). Postgrad. cert. in educn., 102.

[Information compiled as at 1/8/62]

## LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Founded 1895

Postal Address: Houghton Street, Aldwych, London, W.C. 2, England

Cables and Telegrams: Politeconica, Estrand, London

Telephone: Holborn 7686

CHAIRMAN OF COURT OF GOVERNORS—The Rt. Hon. LORD BRIDGES, GCB, GCVO, MC, MA Hon. DCL OMB., Hon. DLitt R&G., Hon. LLD Camb., Brit. & Lond., FRS

U.K.—ENGLAND (LONDON)

VICE-CHAIRMAN—F. E. HARMER, CMG, MA

DIRECTOR—SIR SYDNEY CAINE, KCMG, Hon. LLD *Malaya*, BSc(Econ)SECRETARY—H. KIDD, MA *Oxon.* & *Cambr.*

DEPUTY SECRETARY AND ACCOUNTANT—H. C. SCRIVEN, FCA, FCIS

DEPUTY SECRETARY AND BURSA—W. S. COLLINGS, BA

REGISTERAR—J. ALCOCK, BA *Manch.*LIBRARIAN—G. WOLIDGE, BA *Leeds*

## TEACHING STAFF

[†=Part-Time]

Accounting, see Econ.

Anthropology, Social

- Firth, R. W., MA *N.Z.*, PhD, FBA Prof.  
 Schapero, I., MA *Cape T.*, DSc, FRSSA, FBA Prof.  
 Freedman, M., MA PhD Reader  
 Masr, Lucy F., MA *Cambr.*, PhD (Appl. A) Reader  
 Benedict, B., AB *Harv.*, PhD Lectr.  
 Lancaster, Mrs. Lorraine F., BA *Syd.*, DipSocAnthrop Lectr.  
 Morris, H. S., BSc *Edin.*, DipSocAnthrop Lectr.  
 Sterling, A. P., MA DPhil *Oxon.* Lectr.  
 Porge, J. A. W., MA *Cambr.* Asst. Lectr.  
 Harré, J. N., BA *Amsh.* Asst. Lectr.

Business Administration, see Econ

Criminology

- Williams, J. E. H., LL.M. *Wales* Reader

Demography

- Carrier, N. H., MA *Cambr.* Reader  
 Hagral, J., MA *Oxon.* Reader

Economics (including Accounting and Business Administration)

- Bower, P. T., MA *Cambr.*  
 (E. of Underdeveloped Countries & E. Development) Prof.  
 Baxter, W. T., BCom *Edin.*, CA (Acctg.) Prof.  
 Devons, E., MA *Manch.* (Internat. Trade) Prof.  
 Edey, H. C., BCom (Acctg.) Prof.  
 Edwards, R. S., BCom DSc(Econ) (Indust. Org.) Prof., Hon. Lectr.  
 Lipsey, R. G., BA *Br. Col.*, MA *Tor.*, PhD Prof.  
 Pash, F. W., MSc, MA *Cambr.*  
 (Bus. Finance) Prof.  
 Phelps Brown, E. H., MBE, MA *Oxon.*, FBA (E. of Labour) Prof.  
 Phillips, A. W., MBE, BSc(Econ) PhD (E. Sci. & Stats.) Tooke Prof.  
 Plant, Sir Arnold, BSc(Econ) BCom (Bus. Admin.) Cassel Prof.  
 Robbins, Rt. Hon. Lord, CB, MA *Oxon.*, Hon. D.Litt *Darb. & Exe.*, Hon. LHD Col., Hon. LLD *Cambr.*, *Leis. & Stras.*, Hon. Dr. *T.U. Lubon*, BSc(Econ), FBA †Prof.

- Sayers, R. S., MA *Cambr.* & *Oxon.*, FBA (Money & Banking) Cassel Prof.  
 Yamey, B. S., BCom *Cape T.* Prof.  
 Day, A. C. L., BA *Cambr.* Reader  
 Foides, L. P., BCom MSc(Econ) Reader  
 Knox, A. D., BA *Tor.*  
 (E. of Underdeveloped Countries) Reader  
 Mskower, Helen, BA *Cambr.*, PhD (Internat. Trade) Reader  
 Nove, A., BSc(Econ) (Russian Soc. & Econ. Studies) Reader  
 Osga, S. A., PhD Reader  
 Pearse, Mrs. Edith T., AB *Calif.*, MA PhD John H. (Nz. & Middle East) Reader  
 Pensonby, G. J., MA *Cambr.* (Transport) Cassel Reader  
 Pressnell, L. S., BSc(Econ) PhD (Money & Banking) Reader  
 Townsend, H., BSc(Econ) Reader  
 Turvey, R., BSc(Econ) (Pub. Finance) Reader  
 Wiseman, J., BSc(Econ) Reader  
 Rose, H. B., BCom  
 Dir. of Studies, Course in Indust. Financing  
 Alford, R. F. G., BSc(Econ) Lectr.  
 Anstey, Mrs. Vera, DSc(Econ) †Lectr.  
 Archibald, G. C., MA *Cambr.*, BSc(Econ) Lectr.  
 Brooker, R. P., LL.B. (Acctg.) Lectr.  
 Carry, B. A., BSc(Econ) PhD Lectr.  
 Crossley, J. R., BSc(Econ) Lectr.  
 Gould, J. R., BSc(Econ) Lectr.  
 Joy, J. L. Lectr.  
 Kennedy, M. H. (Acctg.) Lectr.  
 Kerrigan, Mrs. Jean, BSc(Econ) †Lectr.  
 Klappholz, K., BSc(Econ)  
 Tutor, Course in Econ. & Soc. Admin., Lectr.  
 Mahan, E. J., BA *Manch.*, PhD *Calif.*, MSc(Econ) Lectr.  
 Peston, M. H., BSc(Econ) Lectr.  
 Prys Williams, G., MBE, BCom (Admin., Org., & Cognate Bus. Studies) Lectr.  
 Stewer, M. D., BS MA *Cal.* Lectr.  
 Woods, J. H., BSc(Econ) (Acctg.) Lectr.  
 Ayre, P. C. I., BSc(Econ) Asst. Lectr.  
 Banerjee, D., BSc(Econ) Asst. Lectr.  
 Casson, R. H., BA *Oxon.* Asst. Lectr.  
 Gervasa, S. D., BA *Oxon.* Asst. Lectr.  
 Grant, J. A. G., BA *Tor.* Asst. Lectr.

Kennedy, M. H., BA Ter., CA	Asst. Lectr.	Nish, I. H., MA Edin.	Lectr.
Kunko, E. A., BA Idals	Asst. Lectr.	Watt, D. C., MA Oxon.	Lectr.
Marquand, Mrs. Judith M., MA Oxon.		De Madariaga, Isabel, BA PhD	Asst. Lectr.
	Asst. Lectr.	Dicks, D. N., BA Oxon.	Asst. Lectr.
Oldershaw, Mrs. Diana M. T., BSc(Econ)			
Asst. Lectr., Adviser to Women Students			
Reddy, B., MA Oxon.	Asst. Lectr.		
Shaffer, J., BSc(Econ) Penn	Asst. Lectr.		
Thomas, J. J., BSc(Econ)	Asst. Lectr.		

**English (as a foreign language)**

Chapman, R., MA Oxon. & Lond.	Lectr.
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**French, see Mod. Langs****Geography**

Buchanan, R. O., MA N.Z., BSc(Econ)	
PhD	†Prof. Emer.
Jones, E., MSc PhD Wales	(Soc. G.) Prof.
Wise, M. J., MC, BA PhD Burw	
Prof., Chairman of Admissions Ctee.	
Stamp, L. D., CBE, Hon. LLD Clerk, BA	
DSc DLat	Prof. Emer., Hon. Lectr.
Harrison-Church, R. J., BSc(Econ) PhD	Reader
Sealy, K. R., MSc(Econ) PhD	Reader
Rawson, R. R., BSc Wales	Sr. Lectr.
Clayton, K. M., MSc Stuffs, PhD	Lectr.
Estlin, R. C., BSc(Econ)	Lectr.
Lambert, Audrey M., BA PhD	Lectr.
Martin, J. E., BSc(Econ) PhD	Lectr.
Odell, P. R., BA PhD Burw., AM Tyfts	Lectr.
Sanclair, D. J., MA Edin.	Lectr.
Hamilton, F. E. L., BSc(Econ)	Asst. Lectr.
Jackson, C. I., PhD McG., BA	Asst. Lectr.

**German, see Mod. Langs****History, Economic**

Carus-Wilson, Eleanora M., MA	Prof.
Fisher, F. J., MA	Prof.
Coleman, D. C., BSc(Econ) PhD	Reader
John, A. H., PhD Camb., BSc(Econ)	Reader
Waley, D. F., MA PhD Camb.	Reader
Barker, T. C., MA Oxon., PhD Manc.	Lectr.
Bradbury, A. R., BSc(Econ) PhD	Lectr.
Brown, Lucy M., MA Camb., PhD	Lectr.
Carter, Mrs. Alice M. C., MA	Lectr.
Erickson, Charlotte J., MA PhD Corn.	Lectr.
Mingey, G. E., BA PhD Nott	Lectr.
Potter, J., MA(Econ) Manc.	Lectr.
Steen, W. M., BSc(Econ)	Lectr.

**History, International**

Medlicott, W. N., MA DLat, FRHist	
Stevenson Prof.	
Anderson, M. S., MA PhD Edin.	Reader
Hiscox, Mrs. Ragnald M., CandMag Onto,	
PhD, FRHist	Reader
Bourne, K., BA PhD	Lectr.
Gron, G. A., MA Camb.	Lectr.
Haardest, H., BA PhD	Lectr.
Lee, Hilda I., MA	Lectr.

Nish, I. H., MA Edin.	Lectr.
Watt, D. C., MA Oxon.	Lectr.
De Madariaga, Isabel, BA PhD	Asst. Lectr.
Dicks, D. N., BA Oxon.	Asst. Lectr.

**Industrial Relations**

Roberts, B. C., MA Oxon	Prof.
-------------------------	-------

**International Relations**

Montagu Barton Prof	
Goodwin, G. L., BSc(Econ)	
(Internat. Instn.) Reader	
Northedge, F. S., BSc(Econ) PhD	Reader
Tunstall, W. C. B., MA Camb., FRHist	
Chambers, F. F., MA Camb	Sr. Lectr.
Bull, H. N., BA Syd., BPhil Oxon.	Sr. Lectr.
James, A. M., BSc(Econ)	Lectr.
Sanis, M. H., BSc(Econ) MA Lehigh	Lectr.
Stern, G. H., BSc(Econ)	Asst. Lectr.
	Asst. Lectr.

**Law, see also Criminology**

(Comm. L.) Cassel Prof	
Griffith, J. A. G., LL.M.	(Engl. L.) Prof.
Johnson, D. H. N., MA LLB Camb.	
(Internat. & Air L.) Prof.	
Kahn-Freund, O., D.Jur. Franc., LL.M.	Prof.
Plucknett, T. F. T., LL.B. Hon. Litt.D. Camb.,	
Hon. LLD Glas., MA, FBA	
(Legal Hist.) Prof.	
de Smith, S. A., MA Camb., PhD (Pub. L.) Prof.	
Wheatcroft, G. S. A., JP, MA Oxon.	
(Engl. L.) Prof.	
Grunfeld, C., MA LLB Camb	Reader
Williams, J. E. H., LL.M. Wales	
(Crimin.) Reader	
Charley, Rt. Hon. Lord, MA	†Lectr.
Diamond, A. L., LL.M.	Lectr.
Downey, B. W. M., LL.B.	Lectr.
Dworkin, G., LL.B. Nott	Lectr.
Munn, M., LL.B. PhD	Lectr.
Stone, Olive M., LL.B. BSc(Econ)	Lectr.
Tepper, C. F. H., BA BCL Oxon.	Lectr.
Valentine, D. G., MA LLB Camb.	
D.Jur. Utrecht	
Aikin, Mrs. Olga L., LL.B.	Asst. Lectr.
Cornish, W. R., LL.B. Addl.	Asst. Lectr.
Evans, D. M. E., LL.B. Wales, BCL Oxon.	Oxon.
	Asst. Lectr.
Park, A. E. W., BA Oxon.	Asst. Lectr.
Thomas, D. A., BA LLB Camb	Asst. Lectr.
Thornberry, C. H. R., MA LLB Camb	Asst. Lectr.

**Modern Languages**

...	Prof.
Scott-James, Mrs. Paula H. J.,	
BLitt Oxon.	
(French) Sr. Lectr.	
Guercio, F. M., BA Liv.	(Italian) Lectr.
Schatsky, Brigitte E., MA	(German) Lectr.
Tint, H., BA PhD	(French) Lectr.



Gottlieb, Mrs. Eleanor (Russian) Asst. Lectr.  
 Orda, Mrs. Mary G., MA *Glas*  
 (French) Asst. Lectr.  
 Smieja, F. L., MA N.U.L., PhD  
 (Spanish) Asst. Lectr.

#### Philosophy, Logic and Scientific Method

Gellner, E. A., MA Oxon.  
 (Philos. with ref. to Sociol.) Prof.  
 Popper, K. R., MA N.Z., PhD Vienna,  
 D.Lit. FBA Prof.  
 Watkins, J. W. N., DSC, MA Yale,  
 BSc(Econ) (Hist. of Philos.) Reader  
 Wiseman, J. O., PhD Dub Reader  
 Bartley, W. W., AM Harv Lectr.  
 Lakatos, I., DPhil *Delvent*, PhD Camb. Lectr.

#### Politics and Public Administration

Graves, H. R. G., BSc(Econ) Prof.  
 Oakshott, M. J., MA Camb Prof.  
 Smellie, K. B. S., BA Camb. Prof.  
 Kedourie, E., BSc(Econ) (Middle East) Reader  
 Pear, R. H., BSc(Econ)  
 (Govt. & Pol. of U.S.A.) Reader  
 Schapiro, L. B., LL.B.  
 (Russian Govt. & Pol.) Reader  
 Self, P. J. O., MA Oxon.  
 Tutor, Course in Econ. & Soc. Admin.,  
 Reader

Pickles, W., MA Leeds Sr. Lectr.  
 Sharp, Dorothea E., MA Tw., DPhil Oxon.  
 Sr. Lectr.  
 Cranston, M., MA BLitt Oxon., FRSL Lectr.  
 Crick, B. R., BSc(Econ) PhD Lectr.  
 Mahband, R., BSc(Econ) PhD Lectr.  
 Manogue, K. R., BA Syd., BSc(Econ) Lectr.  
 Morrall, J. B., MA BLitt Oxon.,  
 PhD N.U.I. Lectr.  
 Panter-Bruck, S. K., BA BPhil Oxon.  
 Lectr., Dep. Chairman of Admissions Cttee.  
 Beattie, A. J., BSc(Econ) Asst. Lectr.  
 Derry, J. W., MA PhD Camb Asst. Lectr.  
 Thorp, E., BSc(Econ) Asst. Lectr.  
 Wolf-Phillips, L. A., BSc(Econ) Asst. Lectr.

#### Psychology, Social and Industrial

Hammelwest, Mrs. Hilde, MA Camb.,  
 PhD Reader  
 Holmes, R., BA Ede. & Lond. Lectr.  
 Hotopf, W. H. N., MA Camb Lectr.  
 Oppenheim, A. N., BA Melb., PhD Lectr.  
 Price-Williams, D. R., BA Lectr.

#### Social Science and Administration

Donnison, D. V., BA Oxon. (Soc. Admin.) Prof.  
 Timmons, R. M., Hon. DSc Wales,  
 LL.D. Ede. (Soc. Admin.) Prof.  
 Abel-Smith, B., MA PhD Camb. Reader  
 Kydd, Jessie A., MBE, MA  
 BCom Ede. Sr. Lectr.

McDonnell, Mrs. Kate F.  
 (Mental Health) Sr. Lectr.  
 Sear, Beatrice N., BA Camb. Sr. Lectr.  
 Bell, Leslie H., MA Lectr.  
 Batrym, Zofia T., (Soc. Casework) Lectr.  
 Cockburn, Mrs. Christine, MA Aberd. Lectr.  
 Elkan, Irma J. M., (Mental Health) Lectr.  
 Hodge, P., DipSocStud Natl  
 Tutor, Course in Econ. & Soc. Admin.,  
 Lectr.  
 Judd, Mrs. Helen O., JP, MA Ede. Lectr.  
 Myers, E. S. Lectr.  
 Shack, Kathleen M., DipSocial Lectr.  
 Smith, J. H., BA  
 (on leave) Tutor, Course in Econ. &  
 Soc. Admin., Lectr.

Russell, Mrs. Katherine F.  
 Organizer of Practical Trg.  
 Thurlay, K. E., BSc(Econ) (Soc. Admin.) Lectr.  
 Townsend, P. B., BA Camb.  
 (Soc. Admin.) Lectr.

Winnicott, Mrs. Clare Lectr.  
 Wright, R. C., BA Mowc. (Mental Health) Lectr.  
 Forder, R. A. D., BA Camb. Asst. Lectr.  
 Greve, A. J., BSc(Econ) Asst. Lectr.  
 Parker, R. A., BSc(Econ) Asst. Lectr.  
 Spence, Terence M., MBE, DipSocAnthrop  
 Asst. Lectr.

#### Sociology

Ginsberg, M., Hon. LL.D. Glas. & Notl.,  
 MA D.Lit. FBA Prof.  
 Glass, D. V., BSc(Econ) PhD Martin White Prof.  
 MacRae, D. G., MA Glas. & Oxon. Prof.  
 Bottomore, T. B., MSc(Econ) Reader  
 Dore, R. P., BA (Far East) Reader  
 Gould, S. J., MA Oxon. (Soc. Instrns.) Reader  
 McKenna, R. T., BA Br. Col., PhD Reader  
 Tropp, A., BSc(Econ) PhD Reader  
 Little, A. N., BSc(Soc) PhD Lectr.  
 Morris, T. P., BSc(Soc) PhD Lectr.  
 Newfield, J. G. H., BSc(Soc) Lectr.  
 Westergaard, J. H., BSc(Econ) Lectr.  
 Clifford-Vaughan, Mrs. Michaela E. F.,  
 DenDroit Paris, Dipl. Inst. d'Et. Pol., Paris  
 Asst. Lectr.  
 de Kadt, E. J., BSc(Soc) MA Col. Asst. Lectr.  
 Martin, D. A., BSc(Soc) Asst. Lectr.

#### Statistics

Allen, R. G. D., CBE, MA Camb.,  
 DSc(Econ), FBA Prof.  
 Durbin, J., MA Camb. Prof.  
 Moser, C. A., BSc(Econ) (Soc. Stats.) Prof.  
 Foster, F. G., BA Ede., DPhil Oxon.  
 (Stat. Computing) Reader  
 Morton, G., BSc(Econ) PhD  
 (Operational Res.) Reader  
 Quenouille, M. H., MA SciD Camb. Reader  
 Stuart, A., BSc(Econ) Reader  
 Doug, Alison, BA BSc Melb. Lectr.  
 Giles, Kathleen E., BA Camb., MA Ohio Lectr.

# LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE 1117

Land, Mrs. Ailsa H., BSc(Econ) PhD (Operational Res.) Lectr.	Smith, T. M. F., BSc(Econ)	Asst. Lectr
Wegner, P., BSc MA <i>Pew</i> Kiloon, G. G. W., MSc(Econ)		Lectr.
(Soc Stats) Asst Lectr	Transport, see also Economics	
In addition to the above, a large number of occasional appts is made from year to year.	Pomsonby, G. J., MA Camb.	Casual Reader

## ADMINISTRATIVE AND OTHER STAFF

Careers Adviser. Commander D. Warren-	ant. W H S Spikesman. Asst. Maintenance
Evans Psychiatric Adviser J. C Read. Adv-	Officer J A G Deans, MBE
viser to Women Students: Mrs Diana M. T	LIBRARY Dep. Librarian: Marjorie Plant,
Oldershaw, BSc(Econ). Maintenance Officer.	DSc(Econ) Sub-Librarians Martha E. Daw-
S. A. Godfrey, BSc(Econ) Asst Sec; Mrs	son, MA (Chief Cataloguer), Mrs Maria
Marion Horn, BA Leeds Sec of Graduate	Nowicki, LL.M (Acquisitions Officer), C G.
School Anne M. Bohm, PhD <i>Berl</i> Sr Asst.	Allen, MA (Supt. of Reading Rooms). Sr. Asst.
Registrar Evelyn M. Myatt-Price, MA. Asst.	Lahmans, Margaret N Blount, BA; Una M.
Registrars. Ila T. Boas, BSc(Econ), R Butler,	Notage, BSc(Econ) Asst Librarians. B G.
BA Comb. Asst. Accountants B. T. Parkin,	Awty, BA, E C Blake, BA; B C. Bloomfield,
FCA; Phyllis M. Shumpton. Asst to Account-	MA; B. R. Hunter, BA.

## GENERAL INFORMATION

Founded in 1895 for the study of the soc. sci., initially econ., econ. hist. and statistics. Recog. as a sch. of the univ. in 1900 for the BSc(Econ) degree course. In 1904 social. was added to the curriculum, and in 1912 the dept. of soc. sci. & admin. was establd. In 1921 recog. as a sch. of the univ. in the fac. of laws, in 1922 in the fac. of arts (geog. and sociol.), in 1924 for hist. and anthropol., and in 1928 for philos. and econ.

Income (1960-61). Total income. £888,742 (govt. grants, 72.2 per cent., endowments, 2.8 per cent.; fees, 13.4 per cent.; donations, 10.3 per cent.; misc. sources, 1.3 per cent.)

LIBRARY. The British Library of Pol & Econ. Sci. (400,000 vols. and over 400,000 pamphlets) is attached to the sch. and includes the Edward Fry library of internat. law, the Schuster library of compar. legislation, and a number of sp. collections. The library is open not only to those who are taking courses at the sch., but, by permission of the librarian, also to other persons desiring to use it for res. or consultation.

ADMISSION. See p. 1066 and Appendix III. The sch. is open on the same terms to men and to women. The sch. reserves the right to call any student for personal interview, and may also specify conditions, over and above the requirements of the univ. regns., with which a student must comply before admission. Persons seeking admission to the sch. for a first degree or dipl. course may be required to sit for an entrance exam., which consists of a 3-hr. paper, containing questions of a general nature and questions on the use of English.

FIRST DEGREES (of Univ. of London). The sch. provides courses for degrees of the Univ. of London as listed below. 3 yrs.—BSc(Econ),

BSc(Soc), LL.B., BA in anthropol., geog., hist., philos. & econ. sociol.

Courses are given both in the day and in the evg. for BSc(Econ), LL.B. and higher degrees.

HIGHER DEGREES (of Univ. of London). MSc (Econ), MA and PhD in all subjs. for which first degrees are awarded.

DIPLOMAS. Awarded by Univ. of London. Postgrad. anthropol., pub. admin., each 2 yrs.; law, psychol., stats, each 1 yr. Awarded by the sch. Soc. admin., 1 yr. for grads., 2 yrs for others; econ. & soc. admin., soc. workers in mental health, personnel admin., appl. soc. studies, each 1 yr.; operational res., 2 yrs.

CERTIFICATES. Awarded by the sch. Internat. studies, 2 yrs.

SPECIAL COURSES. Bus. admin., trade union studies, each 1 yr.; indust. financing, 6 mos. In collaboration with Imperial Coll. the sch. arranges courses in postgrad. studies in technol. & econ. and admin.

FEES (1962-63). Annual composition fee (incl. union membership and exam. fees) for a full-time first degree course in arts, in laws or in econ., £70, for a full-time postgrad. course, £60. By students receive considerable reduction in fees. The fees incl. privileges of students' common rooms and athletic socs. The playing fields at Malden are available for members of the athletic union.

SCHOLARSHIPS. Leverhulme entrance scholrs., incl. 1 reserved in first instance for adult scholar, offered for award each yr. There are also entrance scholrs., £450 each, for intending specialists in stats and computational methods. Scholrs. are also awarded during the undergrad. course.

U.K.—ENGLAND (LONDON)

POSTGRADUATE AWARDS open to grads of other univs: see p. 910.

**RESIDENCE.** Passfield Hall, Endsleigh Place, W C 1 (tel. (warden & staff) Easton 3584, (students) Easton 7691), for at least 140 men, fees at present at rate of £153:15s, £145:10s, and £124 per session for single, double and treble study-bedrooms respectively.

**STUDENT HEALTH.** The sch. has its own psychiatric adviser and nurse. The psychiatric advisory service is in the charge of a doctor who may be consulted by students who feel the need for

psychiatric treatment. The nurse holds a daily surgery in the sch. during the session. A mass radiography unit visits the sch. each session for the exam. of students.

**PUBLICATIONS.** Official: *Calendar* (annual), *Handbook* (annual); *Diploma Pamphlets* (Learned: *New Series*, *Economica*, quarterly journal devoted to res. in econ.; econ. hist. and stats.; *The British Journal of Social*, quarterly journal devoted to res. in sociol. and cognate subjects. Library: *A London Bibliography of the Social Sciences*, vols 1-XI.

## THE YEAR 1961

**PRINCIPAL BENEFITATIONS.** D.S.I.R., approx £11,250 for study of tech. educn. and apprenticeship; various firms, £40,250 towards establ. of fellowship in econ. of Latin America.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: St Clements bldg with teachers' and lecture rooms, student common rooms and bar.

**NEW DEPARTMENTS AND CHAIRS.** Personal chairs: pol. sci. (II G R Greaves), econ. (R G Lapsley).

**RESIGNATIONS.** Rosalind Chambers (sociol.); A. Davies (hist.); S. John (med. langs.); Prof. M. J. Kendall (stats.); M. Wight (internat. relns.); Dr R. G. Opie (econ.).

**DEATHS.** Prof. W. Rose (mod. langs.); Dr. M. Smith (anthropol.); Dr W. W. Gottlieb (hist.).

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1720	433
Women	547	69
Total	2267	502

**Distribution by Faculties.** Arts, 178, 20c student, 2600. Total: 2778.

*Included in the figures above are:—*

Postgraduate students, 887.

New admissions, 1323.

Students from other countries, 1108 (Countries from which largest numbers came: U.S.A., 187; India, 117; Egypt, 90; Canada, 89).

**DEGREES AWARDED (by Univ. of London) (1960-61).** Arts BA, 53; MA, 4. Econ. BSc(Econ), 270; BSc(Soc), 37; MSc(Econ), 38. Law. LLB, 50; LL.M., 12. Sci. MSc, 1. PhD (all facs) . 37. Total number of first degrees awarded, 410.

**DIPLOMAS AWARDED (1960-61) By Univ. of London.** law, 3; pub. admin., 1. *By the Sch.* appl. soc. studies, 34; for soc. workers in mental health, 29; personnel management, 26; soc. admin., 92; econ. & soc. admin., 17; operntsmal res., 4.

**CERTIFICATES AWARDED (by the Sch.) (1960-61.)** Internat. studies, 1.

[Information compiled as at 9/7/62]

## QUEEN ELIZABETH COLLEGE

Founded 1908

Postal Address: 61-67 Campden Hill Road, London, W 8, England  
Telephones and Telegrams: Western 3704

CHAIRMAN OF COUNCIL—Sir GEORGE ALLEN, CBE, MD Belf, Hon. LLD Malaya

PRINCIPAL—M. JOAN SARGAUNT, MA BLAT Oxon.

SECRETARY—DEANA M. H. GRYLLS, BA

# TEACHING STAFF

(† = Part-Time)

<b>Bacteriology</b>		<b>Mathematics</b>	
Pert, S. J., BSc PhD <i>Burm</i>	Reader	Bonner, W. B., DSc	Prof.
Scholes, Patricia M., BSc PhD <i>R'dg</i>	Lectr.	Perry, R. L., BSc PhD	Lectr.
		Dolan, P., MSc <i>Dwb</i>	Asst. Lectr.
<b>Biology</b>		<b>Nutrition</b>	
Chapman, G., MA <i>Camb</i> , PhD	(Zool.) Prof.	Yudkin, J., MD PhD <i>Camb</i> , MRCP,	
Gardner, Phyllis, BSc	Sr. Lectr.	FRIC	Prof.
Rawson, Mrs. Dilya O., MSc <i>Wales</i>	Lectr.	Robinson, D., BSc <i>Liv</i> , PhD	Reader
Vaughan, J. G., MSc PhD	Lectr.	Copping, Alice M., MSc <i>N Z.</i>	Sr. Lectr.
Rugby, Joyce E., PhD <i>R'dg</i> , BSc	Lectr.	Wadsworth, G., MD <i>Liv</i>	Sr. Lectr.
Rogers, Stella, BSc <i>R'dg</i> , PhD	Lectr.	Morgan, T. B., MSc <i>Wales</i> , PhD	(on leave) Lectr.
Gardner, B. G., BSc PhD	Asst. Lectr.		
Black, M., BSc PhD <i>Adanc</i>	Asst. Lectr.	Brown, Ann, MSc <i>Corn</i> , BSc	Asst. Lectr.
Bradfield, A. E., BSc <i>Wales</i> , PhD	Asst. Lectr.	Price, R. G., BSc <i>Wales</i>	Asst. Lectr.
Hesle, J. B., BSc <i>Eve</i> , PhD <i>Wales</i>	Asst. Lectr.	3 Res. Fellows	
1 Res. Fellow			
<b>Chemistry</b>		<b>Physics</b>	
Burton, H., DSc, FRIC	Prof.	Dillon, Teresa J., MSc, FIP	Sr. Lectr.
Hargreaves, M. K., MA <i>Camb</i> , DSc,		McNally, M., BSc PhD <i>Edin</i> .	Lectr.
FRIC	Lectr.	Parsons, J. J., MSc	Lectr.
Prall, P. F. G., BSc PhD, FRIC	Lectr.	Brown, M. T., BSc PhD	Lectr.
Cheseman, G. W. H., BSc PhD, FRIC	Lectr.	Sprackling, M. T., BSc PhD <i>Brist</i>	Lectr.
Smith, F. Geraldine, BSc PhD <i>St. And</i>	Lectr.	Harper, Mrs. Gladys L., MA PhD <i>Edin</i>	† Lectr.
Poller, R. C., BSc PhD <i>St. Pau</i>	Lectr.		
Burd, C. W., PhD	Lectr.	<b>Physiology</b>	
Satchell, Mrs. Rosemary S., BSc PhD		Knott, J. A. C., MD <i>Glas</i>	Prof.
	Asst. Lectr.	Whaler, B. C., BSc PhD <i>Sheff</i>	Lectr.
McWhinnie, W. R., BSc PhD	Asst. Lectr.	Chesman, Mrs. Elizabeth M., BSc	Lectr.
		Prebble, Mrs. Patricia M., BSc	Lectr.
<b>Household Science</b>		Morrissey, Shalagh M., BSc PhD	Lectr.
Walley, Joan E., BSc	Sr. Lectr.		Asst. Lectr.
Urquhart, Mrs. Gweneth M., BSc PhD		De Bouse, Barbara L., BSc <i>St. And</i>	Asst. Lectr.
	Sr. Lectr.	Jackson, Gwendolyn M., BSc <i>St. And</i> .	Asst. Lectr.
Begrie, Irene C.	Lectr.		
Gardner, Mrs. Margaret, MSc	Lectr.	<b>Social Studies</b>	
Walmley, Mrs. Ruth E., BSc	Asst. Lectr.	Heasman, Mrs. Kathleen J., MA <i>Camb</i> , PhD	† Lectr.
West, Mrs. Joan L., BSc	Asst. Lectr.		
Manwaring, Megan E. A., BSc	Asst. Lectr.		
<b>Isotope Unit</b>		<b>Zoology, see Biol.</b>	
Ayre, G., BSc PhD	Res. Fellow		

## ADMINISTRATIVE AND OTHER STAFF

Bursar: Ida T. Robinson. Librarian: Mrs. Margaret Atkins, BA <i>NU I</i> . Accountant: J. A. Garlick. Asst. Secretary: Mary A. Heath, MA	Oxon Radiation Protection Officer: G. Ayrey, BSc PhD
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## GENERAL INFORMATION

Formerly a dept. of King's Coll. for Women; since 1928 an indep. sch. of the univ. in the fac. of sci. Name changed from King's Coll. of Household and Soc. Sci. to Queen Elizabeth Coll. when royal charter granted in Jan. 1953. Open to men and women students.

INCOME (1960-61) £200,713 (govt. grant, 90 per cent.; fees, 7 per cent.; endowments, a per cent.; misc. receipts, 3 per cent.).

LIBRARY. 15,000 vols., not incl. periodicals.

LABORATORIES offer facilities for res. work.

U.K.—ENGLAND (LONDON)

**ADMISSION.** See p. 1066 and Appendix III.

**FIRST DEGREES** (of Univ. of London). The coll. provides 3-yr. degree courses for BSc(Household Sci.), BSc(Nutrition), BSc(gen.) and BSc(spec.) (maths. and microbiol.).

**DIPLOMAS.** Awarded by Univ. of London: academic postgrad. dipl. in dietetics, 15 mos.; academic postgrad. dipl. in nutrition, 1 yr.; sister tutor's dipl., 2 yrs.

**FEE** (undergrad.). **Tuition** (incl. union membership). £76. 10s. p.a.

**ENTRANCE SCHOLARSHIPS.** Two of £80 p.a. and two of £40 p.a. for 3 yrs.

**POSTGRADUATE SCHOLARSHIPS.** Two of £350. £400 p.a. for 2 yrs. See also p. 910.

**RESIDENCE.** Queen Mary Hall (150 students).

**GRADUATES' ASSOCIATION.** There is an old students' assoc.

**PUBLICATIONS.** *Prospectus*; *Annual Report and Calendar*.

## THE YEAR 1961

**NEW DEPARTMENTS AND CHAIRS.** Title of prof. conferred on Dr. W. B. Bonner (maths.).

**RETIREMENTS.** Ursula Andrewes (phys.), Phyllis Walters (asst. etc.).

**RESIGNATIONS.** Jean Atkins (household sci.) and Helen R. White (microbiol.), on marriage.

### Statistics

STUDENT NUMBERS, 1961-62		
	Full-Time	Part-Time
Men . . .	78	2
Women . .	216	1
Total . .	294	3

All students are in fac. of sci.

Included in the figures above are:—

Postgraduate students, 18

New admissions, 151.

Students from other countries, 22.

**DEGREES AWARDED** (by Univ. of London) (1960-61). Sci.: BSc(HS), 4; BSc(Nutr), 5; BSc(gen.), 27.

**DIPLOMAS AWARDED** (by Univ. of London) (1960-61). Dietetics, 1; sister tutor's, 10.

**CERTIFICATES AWARDED** (1960-61). Institutional management, 20.

[Information compiled as at 1/8/62]

## QUEEN MARY COLLEGE

Founded 1915; previously established as East London College and originally founded as People's Palace Technical Schools, 1887.

**Postal Address:** Mile End Road, London, E.1, England

**Telephone.** Advance 4811

**PATRON—H.M. THE QUEEN**

**CHAIRMAN OF THE GOVERNORS—Sir ALBERT STUART, KBE, CMG, MA**

**PRINCIPAL—Sir THOMAS F. CHURCH, KBE, MC, QC, MA Oxon.**

**REGISTERED AND SECRETARY—R. P. TONG, OBE, JP, MA Camb.**

**LIBRARIAN—A. WHITWORTH, MA Leeds**

## TEACHING STAFF

**Botany**  
Whittingham, C. P., BA PhD Camb.  
Godward, Maud B. E., MSc PhD

**Prof** Newby, H. V., BSc(Agric) BSc  
**Reader** Wanstall, P. J., BSc  
Walker, D. A., BSc PhD Durh.

**Sr. Lect.**  
**Lect.**  
**Lectr.**

Bone, D. H., BSc PhD  
Jones, B. M. G., BA Camb.  
Frankland, B., BSc Manc

Lectr.  
Asst. Lectr.  
Asst. Lectr.

**Chemistry**

Sykes, K. W., MA BSc DPhil Oxon.  
Hickinbottom, W. J., PhD DSc Burw.,  
FRIC

Prof.  
Prof.

Weedon, B. C. L., DSc PhD, FRIC  
Stona, F. G. A., MA PhD Camb.  
French, Cecile M., DSc PhD, FRIC  
Garwood, R. F., BSc PhD  
Grove, Dorothea M., MA BSc Oxon., PhD  
Ansell, M. F., DSc PhD  
Hart, F. A., MA PhD  
Pritchard, J., BSc PhD  
Urch, D. S., BSc PhD  
Randall, E. W., BA DPhil Oxon.  
Bonnett, R., BSc PhD Camb., ARCS  
Massey, A. G., BSc Lond., PhD

Prof.  
Reader  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Classics**

Lairlaw, W. A., MA LittD Dub.  
Balme, D. M., CMG, DSO, DFC,  
MA Camb  
Denny, G. A. W., TD, MA Camb  
Staley, B. R. I., MA Oxon  
Currie, H. MacL., MA Glas.  
Black, D. W., BA Durh

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

**Engineering, Aeronautical**

Young, A. D., MA Camb., FRAeS  
Whitehead, L. G., BSc(Eng) PhD  
McQuillan, L. A., MA Oxon.  
Hancock, G. J., BSc PhD Sheff.  
Milne, R. D., BSc(Eng) Aberd.  
Bernstein, L., BSc(Eng) PhD

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Engineering, Civil**

King, J. W. H., MSc Manc, MICE  
Daniel, A. W. T., MA Camb., PhD Lond.  
Gudd, D., MSc(Eng)  
Allen, J., MSc PhD Manc.  
Burley, E., BSc(Eng)

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

**Engineering, Electrical**

Humphrey Davies, M. W., BSc(Eng) Wales,  
MSc MIT, MIRE  
Stoner, C. R., BSc(Eng), MIRE  
Troppe, H., Dip Ing Psewa, PhD  
Lewis, T. J., BSc(Eng) MSc PhD  
Thunwood, R. F., BSc(Eng) PhD  
Ellison, A. J., BSc(Eng)  
Redwood, M., BSc PhD  
Sealey, J. S., BSc(Eng) PhD  
Macfarlane, A. G. J., BSc Glas.  
Selva, R. F., BSc(Eng) PhD  
Sedger, P. E., BSc(Eng) PhD  
3 Res. Fellows, 2 Res. Assts

Prof.  
Reader  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Engineering, Mechanical**

Giffen, E., MSc Belf., DSc(Eng) PhD,  
MIMechE  
Le Pevre, E. J., BSc(Eng), MIMechE  
Webb, C. R., BSc(Eng) PhD  
Earles, S. W. E., BSc(Eng) PhD  
Kotas, T. J., MSc(Eng)  
Cheesewright, R., BEng Liv.  
Davies, W. R., BSc(Eng)  
Langer, G., MSc Rand  
Rose, J. W., BSc(Eng)  
Janetz, M. S., MSc(Eng)  
Mudge, D. R. J., BSc  
Soliman, J. I., MSc Alexandria, PhD

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Engineering, Nuclear**

Murgatroyd, W., MA PhD Camb.  
Saxe, R. F., BSc PhD Lond.  
Mansfield, W. K., BSc PhD  
Kerny, L. G., BE Syd  
1 Sr Res. Fellow, 3 Res. Fellows

Prof.  
Reader  
Lectr.  
Lectr.

**English Language and Literature**

Isaacs, J., MA Oxon  
Collan, N. R., MA Camb  
Thompson, Miss. Marjorie, MA  
Thomson, Patricia, MA Oxon.  
Huxsey, S. S., MA PhD  
Mills, A. D., MA

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

**French Language and Literature**

Collas, J. P., BA BLitt Oxon.  
Taylor, O. R., MA Wales  
Dordene, R., MA Gargus, LisL Paris  
Decraus, Mrs. Juliette C., MA Leeds,  
DUParis  
Evans, D. H., MA Wales, DUParis  
Holmes, Peggy P., BA PhD  
Gore, K. O., MA Wales

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

**Geography**

Smalles, A. E., MA  
Rawstron, E. M., MA  
Mutton, Alice P. A., MA PhD  
Everard, C. E., MSc  
Sheppard, June A., MA PhD  
Harris, D. R., MA BLitt Oxon.  
Withers, M. E., BA Birm.  
Storrie, Margaret C., MA PhD Glas.

Prof.  
Reader  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

**Geology**

Kirkaldy, J. F., DSc  
Middlemas, F. A., BSc PhD  
Greensmith, J. T., BSc PhD Sheff.  
Bishop, A. C., BSc PhD  
Tucker, E. V., BSc PhD Wales  
French, W. J., BSc Natl, PhD

Reader  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.

**German Language and Literature**

Hatto, A. T., MA  
Bock, C. V., MA Manc.; DrPhil Basle

Prof.  
Reader

Cambridge, Rosemary N., MA Oxon.,  
DPhil Adv  
Alexander, Mrs Mary, MA Oxon.

Lectr.  
Asst. Lectr.

### History

Bundoff, S. T., MA  
Chew, Helena M., MA PhD  
Leslie, R. F., BA PhD  
Clementi, Dione R., MA DPhil Oxon.  
Scarsbrick, J. J., MA PhD Camb.  
McDonnell, K. G. T., BSc (Econ) PhD  
Williams, G., BA PhD

Prof  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

### Mathematics, Pure and Applied

Ferraro, V. C. A., DIC, BSc PhD  
Hirsch, K. A., DPhil Berl., PhD Camb.  
Percival, I. C., BSc PhD  
Gruenberg, K. W., BA PhD Camb.

Prof.  
Prof.  
Reader  
Reader

Allen, H. S., PhD MSc  
Chargwin, B. H., MA Oxon., BSc PhD  
Troppe, Mrs. A. Mary, MSc PhD  
Plumpton, C., MA Camb., PhD  
Gladson, J. E. C., MSc PhD  
West, A. J., BA PhD Camb.  
Higgins, P. J., BA PhD Camb.  
Simons, S., BA PhD Camb.  
Farquhar, I. E., BSc PhD Abert.  
Lennier, A., MA MEd  
Gibson, J. G., MSc PhD  
Puckering, Mary, BSc PhD Manc.  
Rosenberg, M. A., MSc

St. Lectr.  
St. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

### Physics

Jones, G. O., MA BSc Oxon., PhD Sheff.  
Eisenchutz, R. K., DrPhil Munich, DSc,  
FIP  
Poulter, J. G., MSc PhD Manc.,  
DSc Paris, FIP

Prof.  
Prof.  
Reader

Ashmore, A., PhD Liv., BSc, FIP  
Davies, R. O., DPhil Oxon., MSc N.Z.  
Irons, E. J., PhD DSc, FIP  
Leach, J. W., BSc PhD, FIP  
Heastre, R., BSc PhD, FIP  
Burfoot, J. C., MA PhD Camb., FIP  
Neale, F. E., BSc PhD Natl.  
Sander, E., DPhil Phys & Maths Bud.,  
PhD Camb.  
Donach, S., BA Camb., PhD Liv.  
Bostin, J. A., MA Oxon., PhD  
Newman, D. J., BSc PhD  
Martin, D. H., BSc PhD Nott.  
Range, W. H., BSc PhD Liv.

Reader  
Reader  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

Mandel, G., BA Oxon.  
Res Asst

Asst. Lectr.

### Spanish Language and Literature

Jones, R. O., MA  
Harvey, L. P., MA DPhil Oxon.  
Franco, Mrs Jean, MA Manc., BA  
Ingamells, Lynn E., BA

Reader  
Lectr.  
Lectr.  
Asst. Lectr.

### Zoology

Smith, J. E., MA ScD Camb., BSc PhD,  
FRS  
Newell, G. E., TD, DSc PhD  
Forrest, J. E., BSc Educ., PhD  
Cuthy, J. D., MA PhD Camb.  
Freeman, R. F. H., BSc Lond., MA Camb.  
Simons, K., BSc PhD R'dg.

Prof.  
Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.

Heald, Mrs. Lesley J., BA Camb., PhD Leu.

Asst. Lectr.

Munro Fox, Prof H., MA Camb., FRS

Asst. Lectr.

Hon. Res. Assoc.

## ADMINISTRATIVE AND OTHER STAFF

Warden of Men's Hostel: B. H. Chirgwin, MA  
Oxon., BSc PhD. Warden of Women's Hostel:  
Dorothea M. Grove, MA BSc Oxon., PhD. Tutor

to Women Students: Peggy P. Holmes, BA PhD.  
Radiation Protection Officer: J. W. Leach, BSc  
PhD, FIP.

## GENERAL INFORMATION

Queen Mary Coll. derives from the New Philo-  
sophical Institute founded in the earlier part of  
the 19th cent. by J. T. Barber Beaumont to provide  
educ. for people of the East End. He died in  
1845, providing in his will a trust fund for con-  
tinuation of the inst. The trustees later became  
associated with the Drippers' Co., with whose  
assistance the People's Palace Technical Schs were  
opened in 1887, superseding the New Philo-  
sophical Inst. and later known as East London  
Technical Coll. With addn. of arts courses, the

name was changed to East London Coll. In 1907  
univ. recognition was granted for instrum. for  
bachelor's and higher degrees in arts, sci and  
engin. and in 1915 the coll. was admitted as a  
sch. of the univ. A royal charter was granted in  
1934 when the coll.'s name was altered to Queen  
Mary Coll. in acknowledgment of the honour  
accorded by Queen Mary in presenting the  
charter. Queen Mary became the first patron and  
hon. fellow of the coll.

Governed by governors who Incl. master and

clerk of Drapers' Co and repa. of L.C.C., univ. and staff. A sch. of the univ. in arts, sci and engin

**FACULTIES AND DEANS.** *Arts*, Prof. A. E. Smiles (geog.). *engin.*, Prof. M. W. Humphrey Davies (electr. engin.), *sci.*, Prof. C. P. Whittingham (bot.)

**TUTOR TO GENERAL STUDENTS.** *Sol.*, H. V. Newby (bot.).

**COLLEGE PRECINCT.** With the exception of hol. exhibits listed under 'Labs' all the coll. bldgs are contained in 3 continuous sites fronting on Mile End Rd. Devol continues on each of these 3 sites. The gymnasium is a quarter of a mile distant.

**LIBRARY.** About 75,000 vols.

**LABORATORIES** for res. in phys., chem., electr. engin., nuclear engin.; Whitstable lab. for study of marine biol.; bot. field stn. at Dycheleys.

**ADMISSION.** See p. 1066 and Appendix III

**FIRST DEGREES** (of Univ. of London). The coll. provides courses for degrees of the Univ. of London as listed below. BA (3 yrs.): hon. in classics, Latin, Engl., French, geog., German, Greek, hist., maths., Spanish. BSc (3 yrs.): special degree in bot., chem., geog., geol., maths., phys., zool., and (3 subjs.) general. BSc(Eng) (3 yrs.): aeronaut., civil, electr., mech.

**HIGHER DEGREES** (of Univ. of London). MA, MSc, MSc(Eng) and PhD may be taken in all subjs. listed in preceding paragraph, period of study generally not less than 2 yrs. Except in maths., when a master's degree may be obtained by means of a course of instruction, all higher degrees involve res. under supervision.

**DIPLOMA.** Awarded by the coll.: 1 yr. dipl. in nuclear engin., 1 yr. course for hon. grads. in engin., sci. or maths. or students with equivalent qualifs.

**FEES.** Undergrad (incl. coll. and univ. exam. and registration fees): arts, £70 p.a.; sci. and engin., £85 p.a.; geog. (arts or sci.), £85 p.a.; maths only, £70 p.a. Postgrad (incl. coll. registration fees): arts, £70 p.a.; sci. and engin.,

£85 p.a.; geog. (arts or sci.), £85 p.a.; maths only, £70 p.a.; dipl. in nuclear engin., £110

**ACADEMIC YEAR.** Oct. to July. 3 terms of 10 weeks each.

**ENTRANCE SCHOLARSHIPS AND EXHIBITIONS.** These incl. 6 schol. (4 for men, 2 for women), value £75 p.a., and 4 exhibitions, value £40 p.a., all for 3 yrs., awarded by the Drapers' Co. in Feb. of each yr. on the result of the inter-collegiate scholarships exam. The governors award to coll. exhibitions, value £60 p.a. for 3 yrs., on the result of the same exam. In addn., coll. bursaries value £40 p.a. may be awarded from time to time to students entering their and/or later yrs.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910.

**RESIDENCE, etc.** For men (fee for residence and partial bd. from £105 p.a.): Elmhurst, 89 High Rd., S. Woodford, London, E.18 (tel. Buckhurst 1541); accomm. 32 students. For women (fee for residence and partial bd. £120 p.a.): Lynden Hall, 91 High Rd., S. Woodford, London, E.18 (tel.: Buckhurst 1546), accomm. 30 students.

**STAFF RESIDENCE.** The house standing in the coll. sports grounds at Dycheleys provides 5 flats for academic staff.

**GRADUATES' ASSOCIATIONS.** The old students' assocn. was founded in 1909 to provide past students with opportunities for meeting each other and for maintaining their interest in the coll.

**STUDENT HEALTH SERVICE.** A med. officer visits the coll. weekly during the first 2 terms of the session. All students attend mass X-ray during the first term of the session.

**STUDENTS' UNION.** The union soc. officially represents the student body. It has an affiliation a large number of clubs and socs. which cater for the intellectual, soc. and athletic needs of students. There is a sports ground at Dycheleys, Coxsie Green, near Brentwood.

**PUBLICATIONS.** *Prospectus*; *Calendar*, 5s.; *Annual Report*, student publica.: *The Leopard*, 1s. 6d.; *The Cub*, 4d.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldg. completed 3rd section of new engin. bldg. and 2nd section of new phys. bldg. came into use.

**RETIREMENTS.** Dr. D. C. Jones (chem.).

**RESIGNATIONS.** Dr. A. E. Guile (electr. engin.), apptd. sr. lectr. in electr. engin., Leeds; Dr. Gwyneth M. Waind (chem.), apptd. asst. in Tech. High School, Copenhagen.

**DEATHS.** Dr. B. J. Timmer (reader in Engl.).

## Statistics

### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time Part-Time	
Men	965	52
Women	305	19
Total	1270	71

**Distribution by Faculties.** *Arts*, 414; *engin.*, 370; *sci.*, 557. Total: 1341.



Included in the figures above are:—  
 Postgraduate students, 202.  
 New admissions, 450 (full-time).  
 Students from other countries, 99 (Countries  
 from which largest numbers come: U.S.A., 13,  
 India, 10)

DEGREES AWARDED (by Univ of London)

(1960-61). *Arts*, BA, 18; BA hons, 99, MA,  
 1. *Engin.*: BSc(Eng), 84; MSc(Eng), 1. *Sci.*  
 BSc, 8; BSc hons., 128; MSc, 3. PhD (all  
 Facs.)\* 30. Total number of first degrees awarded,  
 337

DIPLOMAS AWARDED (by the college) (1960-61)  
 Nuclear engin., 1.

[Information compiled as at 1/8/62]

## ROYAL HOLLOWAY COLLEGE\*

Founded 1886

Postal Address: Englefield Green, Surrey, England

Cables and Telegrams: Royal Holloway College, Englefield Green

Telephone: Egham 3751

CHAIRMAN OF THE COUNCIL—Sir JOHN CAMERON, Bt, MA LL.B. Camb

PRINCIPAL—E. MARJORIE WILLIAMSON, MSc PhD

SECRETARY—DOROTHY HUSTLER, MBE

REGISTRAR—JOSEPHINE FULLER

LIBRARIAN—FLORENCE R. ELLISON, BA Br.Col., FLA

### TEACHING STAFF

Botany		Classics	
Jane, F. W., PhD DSc	Prof	Finch, A., DIC, PhD	Lectr
Madge, Margaret A. P., BSc PhD		Lewis, D., BSc PhD Hull	Asst Lectr
		5 Res. Fellows	
	Sr. Lectr., Asst. Dir., Bot. Lab.		
Paxton, R. G., MSc Dwrh	Lectr.		
Evans, J. H., BSc PhD	Lectr.	Tredennick, H., MA Camb	Prof
Kerr, Janet E., BSc PhD	Lectr.	Miller, Norma P., MA Glas. & Camb	Lectr
Lodge, E., PhD	Lectr.	Walford, F. A., M Litt Camb., MA	Lectr.
Valinder, L. R. G., BSc St'ion	Asst Lectr	Usher, S., MA Water, PhD	Lectr.
Topping, Mrs M. Phyllis, BSc PhD			
	(Biol) Hon. Res. Asst.		
1 Res. Fellow; 1 Botanical Gardener			
Chemistry		English	
Bourne, E. J., PhD DSc Birt., FRIC	Prof	Kane, G. J., BA Br.Col., MA Tar., PhD	Prof
Singer, K. G., PhD Glas., BSc	Reader	Tomkins, Joyce M. S., MA DLit	Reader
Bonner, T. G., PhD DSc, FRIC		Green, Hilda A. C., MA	Sr. Lectr
	(on leave) Reader	Morgan, Margery M., MA	Lectr.
Weigel, H., DiplChem DrillerNat		Hyde, Isabel, MA MLitt Camb.	(on leave) Lectr
T.H. Aachen	Lectr.	Ball, Patricia M., MA Lectr., PhD Notf.	Lectr
Peters, D., BSc PhD	Lectr.	Ladd, C. A., BA Oxon.	Lectr
Pedham, J. B., BSc PhD Birt.	Lectr		
		French	
		Hunt, H. J., MA DPhil Oxon.	Prof.

\* For women. (Men are at present only admitted for postgraduate work).

West, Constance B., MEdt Camb., PhD	Sr. Lectr.
Breerton, Georgine E., BA BLitt Oxon.	Lectr.
Quinn, Mrs. Renée M.	Lectr.
Francis, K. H., BA PhD	Lectr.
Roche, Yvette M., BA Wales	Asst. Lectr.
c. Assistants	

## German

Tymms, R. V., MA Olan.	Prof.
Jenkins, S. Patricia, MA	Sr. Lectr.
Salmon, P. B., MA PhD	Lectr.

## History

Hussey, Joan M., MA Oxon & Camb,	
BLatt Oxon, PhD, FSA	Prof.
Latham, R. C., MA Camb	Reader
Tomkinson, A., MA Oxon	Lectr.
Cunningham, A. B., BA Durk., MA PhD	Lectr.
Stoys, Enid D., MA Oxon, PhD Frib.	Lectr.
Harvey, Margaret M., BA Oxon.	Asst. Lectr.

## Mathematics

McCrea, W. H., ScD Camb, Hon. DSc N.U.I., FRS	Prof. Reader
Bradburn, Mary, PhD Edin., MSc	Sr. Lectr.
Yates, Barbara G., BA Dub., PhD Aberd.	Lectr.
Reed, I. W., BSc Sud. MSc	Lectr.

McDowell, M. R. C., BSc PhD <i>Belf.</i> , MA Col.		Lectr.
Layton, R. R., BSc	Asst	Lectr.
Wiseman, A. I., BSc	Asst	Lectr.

### Abstract

Scouras, Joan C, BMus Sr Lectr, Dir  
Leggo, B Pompiha, MA Oxon. Lectr, Asst. Dir.

## Physics

Tolansky, S., PhD <i>Durh. &amp; Lond.</i>	Prof.
DSc <i>Manc.</i> , FRS	
Heavens, O. S., BSc PhD	Reader
Hutten, E. H., PhD <i>Berl.</i>	Reader
Smith, C. J., MSc PhD	
Sr. Lectr., Asst. Dir., Phys. Lab.	
Edmondson, A. S., MSc	Lectr.
Miller, R. F., BSc	Asst. Lectr., Dem.
Bonner, Jill C., BSc	Asst. Lectr.
1 Res. Fellow	

## Zealotry

Butler, P. M., MA PhD Camb, BSc	Prof.
Thomas, Joan G., BSc PhD	Lectr.
Duncan, Annie, PhD Lond., BSc	Lectr.
Binyon, E. J., BSc PhD	Lectr.
Brown, J. C., BSc PhD Brast	Lectr.
Twigg, G. I., BSc PhD Sheff	Lectr.
± Res. Fellow	

#### ADMINISTRATIVE AND OTHER STAFF

Residence Officer: E. Mary Bone, BA Oxon.  
Principal's Private Sec.: Anne A. Divine, BA  
Sr. Assts. to the Sec.: K. F. Levesey, BA Oxon;  
M. Betty de M. Beaumont, BSc Edu. Ass.

Registrar: Cynthia G. Sutton, BA. Domestic Violence  
Barbar. Coestance C. Strachan. Nurses:  
Marjorie G. Moss, Doris M. Watson. Radiation  
Protection Officer: A. S. Edmondson, MSc.

## GENERAL INFORMATION

Opened in 1886. A sch. of the univ. in the facs. of arts and sci. Became a corporate body, July 1949.

LIBRARY Approx 61,000 vols

LABORATORIES Bot., chem., phys., zool. Bot.  
edn.

**ADMISSION** There is a scholop exam., on the results of which scholops. and exhibitions may be awarded. Candidates applying for entrance only must apply through the Universities Central Council on Admissions. All candidates must attend for interview. See also p. 1066 and Appendix III.

**FIRST DEGREE** (of Univ. of London) The coll. provides courses for degrees of the Univ. of London as listed below. 3 yrs.—BA (hons. and gen.) in classics, Greek (with Latin), Latin (with Greek), Engl., French, German, hist., maths.,

BA (gen.) music; BSc (spec and gen.) with, as main sub., bot., chem., maths., phys., or zool.

HIGGIN DROGOS (of Univ of London) MA and PhD in classics, Engl, French, German, hist, maths.; MSc and PhD in bot, chem., maths., phys., zool]

**Fees.** Tuition: undergrad. and postgrad. arts, \$52 p.a.; maths. (arts or sci.), \$70 p.a.; sci., \$70 p.a. Residence, \$200 p.a., use of amenities for non-resident students, \$9 p.a. Theoric fee, covering union membership (compulsory), \$2; ss p.a. (resident undergrad. and postgrad.). £1. 18 p.s. (non-resident undergrad. and postgrad.) Sp. subs. (music, elocution, etc.), 10s. def. = ss. a term. Registration, £2.

ENTRANCE SCHOLARSHIPS. Four £60 scholarships and eight £40 scholarships may be awarded each yr.

Awarded on basis of scholp. exam; tenable for 3 yrs. subject to satisfactory progress.

POSTGRADUATE AWARDS open to grads of other univs; see p 910

RESIDENCE Residential accomm for approx. 340 students.

STUDENT HEALTH SERVICE. Students are registered with the coll. doctor.

FACILITIES FOR ATHLETICS. There are facilities for athletics, cricket, hockey, lacrosse, netball, squash, tennis, gymnastics and swimming. Area of grounds, 95 acres.

PUBLICATIONS *Calendar* (Oct.); *Prospectus* (July); *Coll. Letter* (old students' assoc.) (Dec.)

### THE YEAR 1961

RETIREMENTS E Dorothy P Pagter (register)

DEATHS EMER. Prof. Hilda Johnstone (prof. of hist., 1922-42)

#### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	17	8
Women . .	353	12
Total . .	370	20

Distribution by Faculties *Arts*, 182, *sci*, 208  
Total . 390

Included in the figures above are:—

Postgraduate students, 55.

New admissions, 144

Students from other countries, 23. (Countries from which largest numbers came: U.S.A., 4; India, 4).

DEGREES AWARDED (by Univ. of London) (1960-61) *Arts*, BA hon., 52; MA, 2 *Sci*: BSc, 5; BSc hon., 44; MSc, 6. PhD (all facs.): 9. Total number of first degrees awarded, 101.

[Information compiled as at 3/7/62]

## ROYAL VETERINARY COLLEGE

Founded 1791

Postal Address: Royal College Street, Camden Town, London, N.W.1, England

Cables and Telegrams: Veterinosia, London, N.W.1

Telephone: Euston 2898

CHAIRMAN OF THE COUNCIL—Professor Sir CHARLES LOWRY EVANS, Hon. LL.D. *Bom. & Land.*, DSc, FRCP, FRB

PRINCIPAL AND DEAN—R. E. GLOVER, MA Cantab., DSc, FRCVS

VICE-PRINCIPAL—Professor J. MCCUNN, FRCS

BURSAR AND SECRETARY—H. W. J. ADAMS, MA Oxon., FCIS

### TEACHING STAFF

#### Anatomy, Veterinary

Dyce, K. M., BSc DVMS *Edin*  
Mertens, R. H. A.  
Drury, F. S.

Prof.  
Lectr.  
Lectr.  
Lectr.

#### Animal Husbandry and Veterinary Hygiene

Lang, J. A., BSc *Edin*, PhD Cantab.

Courtsaid, Prof.  
Reader

# ROYAL VETERINARY COLLEGE

1127

Hartop, A. E.	Sr. Lectr.	<b>Parasitology, Veterinary</b>	
Offord, E. C.	Lectr.	Oldham, J. N., BSc PhD <i>Edw.</i>	Reader
Green, D. A.	Lectr.	Beresford-Jones, W. P., MA Camb.	Lectr.
Williams, H. LL, BSc(Agric) <i>Wales</i> , MSc	Lectr.		
<b>Bacteriology, Veterinary</b>		<b>Pathology, Chemical</b>	
Lowell, R., DSc DVSM <i>Mans.</i> , PhD	Prof.	Harvey, D. G., MBE, BSc PhD, FRIC	Reader
Smith, J. E., BSc(VetSci) PhD	Lectr.	Wilkinson, J. S., BSc(VetSci) PhD	Lectr.
Hughes, Betty A., BSc <i>Brist.</i>	Asst. Lectr.		
<b>Biochemistry, Veterinary</b>		<b>Pathology, Veterinary</b>	
Holton, F. A., MA PhD Camb.	Reader	Cotchin, E., DSc	Prof
Marchant, R. H., BSc PhD (on leave)	Lectr.	Ingrams, P. L., BSc(VetSci) PhD	Reader
Mayes, P. A., BSc PhD	Lectr.	Hayward, A. H. S.	Lectr.
Tyler, D. D., BA Camb.	Asst. Lectr.	Appleby, E. C., PhD <i>Edw.</i> , BSc(VetSci)	Lectr.
		Cheyne, I. A., BVetMed	Lectr.
<b>Biology</b>		O'Shea, J. D., BVetMed PhD	Asst. Lectr.
Jackson, J. H., MA BSc <i>Aberd.</i>	College Reader		
Nisbet, R. H., BSc PhD	Lectr.	<b>Pharmacology</b>	
Bowes, B. G., BSc PhD	Asst. Lectr.	Schofield, Brenda M., BSc PhD <i>St. And.</i>	Lectr.
Owen, I. L., BSc PhD <i>Wales</i>	Asst. Lectr.	Keen, P. M., BVSc <i>Brist.</i>	Lectr.
		<b>Physics, see Chem.</b>	
<b>Chemistry and Physics</b>		<b>Physiology, Veterinary</b>	
Clarke, R. G. C., MA Oxon., PhD <i>Rdg.</i> , FRIC	Reader	Amoroso, E. C., BSc PhD MB BCH	
Hawkins, A. E., BSc PhD, FIP	Lectr.	BAO N.U.J., FRCS, FRB	Prof.
Shack, R., MSc	Asst. Lectr.	Bell, F. R., BSc <i>Durb.</i> , PhD, FRCVS	Reader
Baxter, Mrs. Margaret I., BSc <i>St. An.</i>	Asst. Lectr.	Bishop, M. W. H., MA PhD	
Sowler, Sheila A., BA Camb.	Asst. Lectr.	DipAgricSc Camb.	Lectr.
		Lawn, A. M., BSc	Lectr.
<b>Histology and Embryology</b>		...	Lectr.
Creed, R. F. S., MA Oxon.	Lectr.	Shorthose, W. R., BSc <i>Nott.</i>	Asst. Lectr.
Scott, M. G. A. D., MSc	Lectr.		
Hodson, Mrs. Norma P., MA Camb., BVSc <i>Syd.</i> , MVSc <i>Tor.</i>	Asst. Lectr.	<b>Surgery, Veterinary</b>	
		Forreston, C., FRCVS	Prof.
<b>Medicine, Veterinary</b>		Arthur, G. H., DVSc <i>Liv.</i> , FRCVS	Reader
Burrow, H., DVSM	Prof.	Knight, G. C., FRCVS	Reader
Greston, J. C., PhD <i>Rdg.</i> , FRCVS	Reader	Vaughan, L. C., FRCVS	Lectr.
Prose, E. K.	Lectr.	Cook, W. R.	Lectr.
Stratton, J.	Lectr.	Churchill Frost, R.	Lectr.
Thomson, L. R.	Lectr.	Taverner, W. D., BVSc <i>Liv.</i>	Lectr.
Richards, M. A.	Lectr.	Redfern, D. M., BVetMed	Asst. Lectr.
Yeoman, G. H.	Lectr.	Alderson, Valerie A., BVSc <i>Liv.</i>	Asst. Lectr.
Rohrbach, J. A., BVetMed	Asst. Lectr.	...	Asst. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Secretary: D. W. Gordon-Brown, BA <i>Wales</i> , Asst. Bursar: Matilda Benton, Accountant: J. M. R. Leslie, FCA Librarian: R. Catton, BA <i>Manc.</i> , Asst. Registrar: Rhannon W. Roberts, BA <i>Wales</i> , Radiation Protection Officers: J. C. Greston, PhD <i>Rdg.</i> , FRCVS; A. E. Hawkins, BSc PhD, FIP	
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## GENERAL INFORMATION

The Veterinary Coll. of London was founded in 1791 under the presidency of the Duke of Northumberland, beginning with 14 students upon the site at Camden Town that it occupies to-day. The coll. received its first charter of incorporation

from Queen Victoria in 1875 and is now governed under a charter granted in 1956 by H.M. Queen Elizabeth. With the help of govt. grants and other donations the coll. was entirely rebuilt, and the new bldg. was officially opened in 1937. The

U.K.—ENGLAND (LONDON)

coll., which since 1966 has had recog. teachers of the Univ. of London, was admitted as a sch. of the univ. in the fac. of med. with effect from Oct 1949.

THE LIBRARY (13,000 vols.) includes a wide range of books and periodicals on vet. and allied subjects.

FIELD STATION Hawkshead House, Hawkshead Lane, North Mimms, Hatfield, Herts. (tel. Pottery Bar 55486).

ADMISSION. See p. 1066 and Appendix III.

FIRST DEGREE (of Univ. of London) The coll. provides courses for the degree of bachelor of vet. med. (BVetMed) of Univ. of London (14 terms);

no exemption is allowed from any part of the course.

HIGHER DEGREES (of Univ. of London) M VetMed, MSc, PhD

Fees. Undergrad. (incl. union membership), £76 p.a., postgrad £69 p.a.

STUDENT HEALTH SERVICES. The coll. is affiliated to the student health assocn. of Univ. Coll., Lond. Students may consult the physician at stated times at the Royal Vet. Coll. and at all other times at the health centre of Univ. Coll.

STUDENTS' UNION. Clubs and soccs., scientific, athletic and cultural, are open to all students.

PUBLICATIONS. *Prospectus*, *Annual Report*; *Insider* (student magazine).

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62			
(as at the beginning of the academic year)			
	Full-Time	Part-Time	
Men	330	1	
Women	28	—	
Total	358	1	
Distribution by Faculties			
	Med (vet. med.)		
336; sci., 10; art. sci., 13.	Total	359.	

Included in the figures above are —

Postgraduate students, 10  
New admissions, 74  
Students from other countries, 38. (Countries from which largest numbers came: India, 5; Nigeria, 5; Pakistan, 5).

DEGREES AWARDED (by Univ. of London) (1960-61). Med. BVetMed, 62. Sci. BSc spec, 3. Total number of first degrees awarded, 65.

[Information compiled as at 3/7/62]

## SCHOOL OF ORIENTAL AND AFRICAN STUDIES

Founded 1916

Postal Address: University of London, London, W.C.1, England

Cables and Telegrams: Soasul, Phoebe, London

Telephones: Langham 9021-8

PATRON—H.M. THE QUEEN

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF THE GOVERNING BODY—The Rt Hon. THE VISCOUNT RADCLIFFE, GBE, Hon. LLD *Wales, St. And. & Northwestern*, MA Hon. DCL Oxon.

DIRECTOR—Professor C. H. PHILIPS, MA *Liv.*, PhD

SECRETARY—Lt.-Col. H. MOYSE-BARTLETT, MBE, MA Oxon, PhD

LIBRARIAN—J. D. PEARSON, MA Camb.

## TEACHING STAFF

[†=Part-Time]

DEPARTMENT OF INDIA, PAKISTAN  
AND CEYLON

## Bengali

Clark, T. W., OBE, MA  
Das, S. K., MA Calc.  
Boulton, J. V., BAReader  
Lectr  
Lectr.

## Hindi

Burton-Page, J. G., MA Oxon  
Keshkar, Yamuna B., BA Babar, MA Patna  
McGregor, R. S., MA Oxon. & N.Z.Lectr.  
Lectr.  
Lectr.

## Indian Archaeology

Codrington, K. de B., MA Camb.

Prof.

## Indian Art

Pereira, J. V. S., BA PhD Bow.

Res. Fellow

## Indian Music

Bake, A. A., DLitt Utrecht, MA Oxon.  
Jasrabhai, N. A., BA Wash.Reader  
Lectr.

## Indian Philosophy

Friedman, D., DLitt Ley.

Reader

## Marathi

Lambert, Hester M., MA Camb  
Ramsde, I. M. P., BA PhDSr. Lectr.  
Lectr.

## Nepali

Clark, T. W., OBE, MA  
Burton-Page, J. G., MA OxonReader  
Lectr.

## Oriya

Boulton, J. V., BA

Lectr.

## Pali

Juni, P. S., MA Bow., PhD

Lectr.

## Prakrit

Williams, R. H. B., BA PhD

Lectr.

## Sanskrit

Brough, J., MA Camb. & Edin.,  
DLitt Edin., FBA  
Bake, A. A., DLitt Utrecht, MA Oxon.  
Gray, J. E. B., BA Dub  
Wright, J. C., MA Aberd., BAProf.  
Reader  
Lectr.  
Lectr.

## Sinhalese

Reynolds, C. H. B., MA Oxon, BA

Lectr.

## Tamil

Asher, R. E., BA PhD  
Marr, J. R., BA PhDLectr.  
Lectr.

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## Urdu

Brody, E., MA PhD Luck.  
Russell, R., BA Camb. & LondLectr.  
Lectr.DEPARTMENT OF SOUTH-EAST ASIA  
AND THE ISLANDS

## Art and Archaeology of South-East Asia

Christie, A. H., MA Manc.

Lectr.

## Burmese

Pe, Hla, MA Rangoon, PhD  
Allott, Mrs. Anna J., BA  
O'Neill, J. W. A., BA OxonReader  
Lectr.  
Lectr.

## Cambodian

Jacob, Mrs Judith M., BA Camb. &amp; Leeds

† Lectr.

## Malay

Barrett, E. C. G., CMG, MA Camb.  
Bottoms, J. C., MA CambLectr.  
Lectr.

## Mon

Shorto, H. L., MA Camb.

Lectr.

## Oceanic Languages

Miles, G. B., MA Camb.

Lectr.

## Old Javanese

Hooykma, C., DLitt Ley.

Reader

## Tai

Summons, E. H. S., MA Oxon.

Lectr.

## Vietnamese

Honey, P. J., BA

Lectr.

## DEPARTMENT OF THE FAR EAST

## Asian Art

Sullivan, D. M., MA Camb., PhD Harv.,  
BA

Lectr.

## Chinese

Twitcheit, D. C., MA PhD Camb  
Whitaker, Mrs. Katherine P. K., BA HK,  
MA Oxon., PhD (Classical C)  
Cheng, H., BA Yenching  
Chun, Mrs. Grace S., BA NanjingProf.  
Reader  
Lectr.  
(Cantonese) Lectr.Channery, J. D., BA PhD  
Downer, G. B., BA (Cantonese)  
Graham, A. C., MA Oxon., BA PhD  
Hanan, P. D., MA N.Z., BA PhD  
Lee, Y., MA Peking (C. Epigraphy)  
Lui, Mrs. Yin C.  
Ways, G. F., BALectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Chinese Philosophy**Lau, D. C., BA *H.K.*, MA *Glas.***Japanese**

Daniels, F. J., BSc(Econ)  
 Dunn, C. J., BA PhD  
 Mills, D. E., MA Camb., BA  
 O'Neill, P. G., BA PhD  
 Sango, N., BA Tokyo  
 Yanada, S., MEd Econ Tokyo

**Korean**

Skillend, W. E., MA PhD Camb

**Mongolian**

Bawden, C. R., MA PhD Camb

**Tibetan**

Snellgrove, D. L., MA Camb., PhD Reader

**DEPARTMENT OF THE NEAR AND MIDDLE EAST****Akkadian**

Segge, H. W. F., BD MTh MA PhD Reader

**Arabic**

Serjeant, R. B., MA *Edin.*, PhD Camb.  
 (Mod. A.) Prof.  
 Arafat, W., BA PhD Reader  
 Abu-Haidar, J., BA *Beruz & Lond*  
 Barton, J. A., MA *St. And.*, BA  
 Cowan, D., MA  
 Johnstone, T. M., BA BCom  
 Norris, H. T., MA Camb.  
 Bynon, J. F. G., (Arabic & Berber) Res Fellow

**Armenian**

Dowsett, C. J. F., MA PhD Camb. Lectr

**Assyriology**

Wiseman, D. J., OBE, MA Oxon., BA, FSA Prof.

**Caucasian Studies**

Lang, D. M., MA PhD Camb., DLat Reader

**Central Asian Art and Archaeology**

Bevr, A. D. H., MA DPhil Oxon Lectr

**Central Asian Studies**Boyce, Norah E. M., MA PhD Camb.  
 (Iranian) Reader**Hebrew, Modern**

Gertzel, M., DPhil Oxon Lectr

**Iranian Languages**

MacKenzie, D. N., MA PhD Lectr

**Islamic Art and Archaeology**

Lectr. Fehervari, G., PhD Res. Fellow

**Persian**

Lambton, Ann K. S., OBE, BA PhD DLat Prof  
 Haidari, A. A., MA *McG.* Lectr.  
 Mohaghegh, M., MA PhD *Telarus* Lectr

**Semitic Languages**

Segal, J. B., MC, MA Camb., DPhil Oxon. Prof  
 Irvine, A. K., MA *St. And.* Asst. Lectr

**Turkish**

Mundy, C. S., BA Prof.  
 Gokyar, O. S., BA *Istanbul* Sr. Lectr.  
 Ménage, V. L., MA Camb., BA PhD Lectr

**DEPARTMENT OF AFRICA****African Languages, Central**Richardson, I., BA *Leeds*, PhD Lectr.**African Languages, East**

Tucker, A. N., MA Cape T., PhD DLit Prof.

**African Languages, West**

Berry, J., BA *Leeds*, PhD Prof.  
 Arnott, D. W., MA Camb., PhD Reader  
 Dalby, T. D. P., BA PhD Lectr  
 Innes, G., MA *Aberd.*, PhD Lectr  
 Rowlands, Rev. E. C., MBE, MA Camb Lectr  
 Winston, F. D. D., BA Camb. Lectr

**African Music**

Jones, Rev. A. M., MA DLit Oxon. Lectr.

**Bantu Languages**

Guthrie, M., PhD BSc(Eng) Prof.  
 Whitesley, W. H., BA PhD Reader  
 Atkins, W. G., MA Oxon., DPhil Prague Lectr.  
 Benson, T. G., MA Camb. Lectr.  
 Carter, Mrs Joan H., MA Oxon. Lectr  
 Rycroft, D. K., BA *Russ* Lectr.  
 Westphal, E. O. J., MA *Rand*, PhD  
 (S. Bantu Langs.) Lectr.

**Cushitic Languages**

Andrzejewski, B. W., MA Oxon., PhD Lectr.

**Hausa**

Hiskett, M., BA Lectr  
 Parson, F. W., BA Oxon. Lectr

**Swahili**

Hartley, Rev. L. P., MA Oxon., PhD Lectr.

**DEPARTMENT OF PHONETICS AND LINGUISTICS****Comparative Linguistics**

Ball, C. J. E., BA Oxon. Lectr.

**General Linguistics**

Bazell, C. E., MA Oxon  
Robins, R. H., MA Oxon.

Prof.  
Reader

Parry, V. J., MA Oxon, BA Wales  
Wimbrough, J. E., BA Harw., PhD  
Yapp, M. E., BA Burn., PhD

Lectr.  
Lectr.  
Lectr.

**Linguistics**

Mitchell, T. F., BA  
Bose, J. E., PhD Camb., BA

Reader  
Lectr.

**DEPARTMENT OF LAW**

Andersen, J. N. D., OBE, MA LL.D. Camb.  
(Oriental L.) †Prof.  
Gledhill, A., MA Camb., LL.D. (Oriental L.) Prof.  
Durrett, J. D. M., MA Oxon, PhD  
(Oriental L.) Reader

**Phonetics**

Scott, N. C., BA BSc  
Henderson, Eugène J. A., BA  
Carnochan, J., BA  
Whistler, Mrs. Eileen M., BA  
Sharp, A. E., MA Camb.  
Sprigg, R. K., MA Camb.  
Waterson, Mrs. Natalie, BA  
Higginbottom, Eleanor M., BA Camb.

Prof.  
Reader  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.

Allott, A. N., MA Oxon, PhD  
(African L.) Reader  
Coulson, N. J., MA Oxon  
(Islamic L.) Lectr.  
McAlevy, H., MA Camb., BA Manc.  
(Chinese L.) Lectr.  
Read, J. S., LL.B.  
Holland, J. D., BA Oxon  
(Nr. & Middle Eastern Studies)  
Res. Fellow

Asst. Lectr.

**DEPARTMENT OF HISTORY****Asian Economic History**

Caldwell, J. A. M., MA Edin., PhD Notst. Lectr.  
Chaudhuri, K. N., BA PhD Res. Fellow

**History of Africa**

Oliver, R. A., MA PhD Camb. Reader  
Fage, J. D., MA PhD Camb. Lectr.  
Jones, D. H., MA Lev. (West A.) Lectr.  
Froese, H. J., BA Harw., DPhil Oxon.  
Res. Fellow  
Gray, J. R., MA Camb., PhD Res. Fellow

**History of South Asia**

Philips, C. H., MA Lev., PhD  
(Oriental H.) †Prof.  
Barham, A. L., BA PhD, FSA Prof.  
Ballhatchet, K. A., MA Camb., PhD  
(Ind. H.) Reader  
De Casparis, J. G., D.Litt. Ley.,  
PhD Indonesia Reader  
Hardy, P., MA Camb., PhD  
(Islam in S. Asia) Reader  
Harrison, J. B., BA Camb. (Mod. Ind. H.) Lectr.  
Chaudhuri, K. N., BA PhD  
(Econ. H.) Res. Fellow

**History of South-East Asia**

Cowan, C. D., MA Camb., PhD Prof.  
Wellers, O. W., OBE, MA Oxon., PhD Lectr.  
Smith, R. B., BA PhD Leeds Asst. Lectr.

**History of the Far East**

Beasley, W. G., BA PhD Prof.  
Fraser, A., MA Oxon. Lectr.  
Loewe, M. A. N., BA Lectr.

**History of the Near and Middle East**

Lewis, B., BA PhD Prof.  
Holt, P. M., MA BLitt DPhil Oxon. Reader

**DEPARTMENT OF ANTHROPOLOGY AND SOCIOLOGY****African Anthropology**

Gulliver, P. H., BSc(Econ) PhD Lectr.

**Asian Anthropology**

Fürer-Haimendorf, C. von, DrPhil Vienna Prof.  
Bailey, F. G., MA BLitt Oxon., PhD Manc.  
Mayer, A. C., BA St John's (Ind.), PhD Reader  
Mendelson, E. M., MA Camb. & Chic.,  
PhD Chic. Lectr.  
Madan, T. N., BA J StK., MA Lech,  
PhD A.N.U. Temp. Lectr.

**East African Languages and Cultures**

Huntingford, G. W. B., BSc Oxon. Lectr.

**Geography**

Lebon, J. H. G., BSc(Econ) PhD Sr. Fellow

**Sociology with reference to India**

Nicholas, R. W., AB Detroit, AM Chic.  
Res. Fellow

**West African Anthropology**

Cohen, A., MA PhD Manc. Res. Fellow

**DEPARTMENT OF ECONOMIC AND POLITICAL STUDIES****Economics**

Penrose, Mrs. Edith T., AB Calif., MA  
PhD Johns H. (Nr. & Middle East) Reader  
Walker, K. R., BA Leeds, DPhil Oxon. Lectr.  
Broadbridge, S. A., BSc(Econ) PhD  
(E. Asia) Lectr.



Byres, T. J., MA *Alld.*, BLitt *Glas.*  
(S. Asia) Res. Fellow  
McLachlan, K. S., BA *Durb.*  
(Nr. & Middle East) Res. Fellow  
O'Brien, P. K., BSc(Econ)  
(Nr. & Middle East) Res. Fellow

## Political Studies

Tinker, H. R., MA *Cambr.*, PhD

Gray, J., MA *Glas.* Lectr.  
Mehrotra, S. R., MA *Alld.*, PhD Res. Fellow

## PERCIVAL DAVID FOUNDATION OF CHINESE ART

## Chinese Art and Archaeology

Hansford, S. H., MA *DLit* Prof.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Sec.: J. R. Bracken, MA BLitt *Oxon.*  
Asst. Sec.: M. Gatehouse, BA *Cambr.* Accountant.  
Sheila E. H. Smith, BA, FCA. Asst. Accountant.  
Mrs. Maureen Delabye, FCA. Registrar.  
Kathleen M. Wooding, MA *Oxon.* Educn. Officer.  
H. Blakemore, BA PhD. Student Health Adviser.  
N. Malleson, MD, MRCP. Dep. Librarian.  
R. J. Hoy, BSc(Econ), FLA.

Asst. Librarian: J. Lust, BA; E. S. Murrell, BLitt *Oxon.*, MA *Cambr.* & *Oxon.*; G. Schaffield, BA. Editorial Asst.: Doris M. Johnson, MA *Cambr.*

PERCIVAL DAVID FOUNDATION OF CHINESE ART.  
Sec.-Librarian: Betsy W. D. Martin, MA *Glas.*  
Curator: Margaret Medley, BA.

## GENERAL INFORMATION

A sch. of the univ. in facs. of arts and laws.  
As a result of the recommendations of the Reay Cttee in 1908, the sch. was establd. by royal charter in 1916 as the 'School of Oriental Studies, London Institution', in Finsbury Circus; it was granted the status of a sch. of the univ. and was later allocated space for a permanent (not yet fully completed) bldg. on the Bloomsbury site of the univ. In 1938, among other amendments to the charter, the title of the sch. was changed to 'School of Oriental and African Studies'. During the second world war a large number of intensive courses were given for service personnel, esp. in Chinese, Japanese, Burmese, Arabic, Turkish, Persian and Urdu, and much translation work was done for the various ministries as well as censorship duties. Largely as a result of the sch.'s initiative an inter-deptl. commission was set up under the Earl of Scarbrough's chairmanship to report on the provision for teaching and res. at univ. level in Oriental, Slavonic, E. European and African studies. The commission recommended a substantial expansion of existing facilities, and from 1947 large grants for Oriental and African studies have been made by the U.G.C. In accordance with the commission's recommendation that the whole field of Oriental and African studies should be developed in London, as against a more restricted devel. in other univs, the sch. devoted its energies in the first post-war quinquennium to building up strong, coherent academic depts., in which a proper balance is sought as between linguistic and cultural studies and the classical and mod. aspects of those studies. During the period 1952-52 expansion continued steadily, though at a slower rate, and the staff was strengthened by numerous new appts.

In 1960, a sub-cttee of the U.G.C., under Sir William Hayter's chairmanship, reviewed developments in univs. in Oriental, Slavonic, E. European and African studies since the Scarbrough report. In its report, published in 1961, the Hayter cttee recommended further development on a substantial scale, particularly in mod. historical, social and economic studies, and proposed measures designed to increase the number of students in these fields of study. The recommendations are to be implemented during the quinquennium 1962-67 and 1967-72.

INCOME (1960-61) £511,874 (principal sources: govt. grants, 86.6 per cent.; contributions from official, foundation and private sources, 8 per cent.; fees, 3.6 per cent.; endowments, 1.8 per cent.).

LIBRARY. Nearly 250,000 printed books and pamphlets, and 1500 MSS., incl. approx. 16,000 books in the library of Sir Reginald Johnston.

PERCIVAL DAVID FOUNDATION OF CHINESE ART, 53 Gordon Square, London, W.C.1 (tel. Euston 3909), attached to and administered by the sch., comprises collection of Chinese ceramics and associated library presented to univ. by Sir Percival David in 1950, to which was added in 1952 a large collection of Chinese monochrome porcelains given by the Hon. Mountstuart W. Elphinstone. Its object is promotion and teaching of art and culture of China and surrounding region.

ADMISSION. See p. 1066 and Appendix III.

FIRST DEGREE (of Univ. of London). The sch.

\* *Oriental, Slavonic, East European and African Studies. Report of Inter-Departmental Commission of Enquiry* (H.M.S.O., 1947), *op.*

† *Report of the Sub-Committee on Oriental, Slavonic, East European and African Studies* (H.M.S.O., 1961).

provides courses for the BA hona degree (3 or 4 yrs. according to subj.) of the Univ of London in Arabic, Bengali, Burmese, classical Chinese, mod Chinese, Hebrew and Arabic, Hebrew and Assyrian, Hindi, classical Japanese, mod Japanese, Malay, Marathi, Pali (with Sansk.), Persian, Sansk., Sinhalese, Tamil, Turkish, Urdu, last branch III, last branch IV, last branch V, last branch VII, African studies

**HIGHER DIPLOMAS** (of Univ of London). Supervision provided for LL.M, MA, PhD. LL.M: courses and supervision in Hindu law, Muhammadan law, constitutional law of India and Palestine, African law. MA: anthropol., archaeol., compar philol., gen linguistics and phonetics, hist. and the following langs: (a) *with them*—Arabic, Armenian, Bengali, Burmese, Chinese, Egyptian, Georgian, Gajants, Hausa, Hebrew, Hindi, Indo-Aryan, Japanese, Malay, Marathi, Nguni, old and middle Iranian, Persian, Semitic langs, Sinhalese, Sotho, Swahili, Tamil, Turkish, Urdu; (b) *without them*—Arabic, Hebrew and Aramaic, Indo-Aryan, old and middle Iranian, Persian (classical). PhD candidates supervised in any subj connected with Oriental or African langs, lit, culture or hist., subject to approval of bd of appropriate dept

Min period of study for all higher degrees, 2 yrs.

**DIPLOMAS** *Academic postgrad dipls. of Univ. of London* Instrum. provided for all or part of the syllabus for dipls. in anthropol., Chinese archaeol., Indian archaeol., compar philol., law, librarianship, phonetics

**School dipls.** In certain African langs., African law, Arabic, Armenian, Bengali, Burmese, Chinese, Gujarati, Hebrew, Hindi, Islamic & compar. law, Japanese, Kurdish, Malay, Marathi, Pashto, Persian, Sinhalese, Tamil, Turkish, Urdu, linguistics and phonetics

**School special dipls.** in Bantu langs., compar grammar of the Indo-Aryan langs., Hebrew palaeog & epigraphy, Indian palaeog & epigraphy, Indian philol., Iranian, West African langs.

Duration of dipl courses, 1 to 3 yrs according to subj

**CERTIFICATES** Sch. grants certs. for which it provides instrum., in phonetics, African law, Islamic & compar law, Indian ethnog., African ethnog. Duration of cert course, 1 to 2 yrs. according to subj.

**OTHER COURSES** Courses of instrum. (for members of govt depts. and of indust and commercial firms) in langs. of Asia and Africa available; they normally incl. lectures on hist.,

culture, religions, customs and laws. Details from asst sec

**EXTRA-MURAL COURSES.** From time to time advanced courses arranged for business executives, govt officials, teachers, etc. on econ., pol and soc problems of various regions of Asia and Africa. These may be either lecture courses (32 days' duration in vols.) or seminar courses (10 consecutive wily sessions). Details from educn. officer.

**STUDY LEAVE** regularly granted to enable members of staff to visit and pursue res in the countries in Asia and Africa with which their studies are concerned. Normal duration: 1 academic yr.

**FEES.** Undergrad.: arts, £52 p.a.; dipls. or sp dipls., £52 p.a. Other regular courses: fees on applicn. to registrar. Postgrad.: arts and laws, £42 p.a. Registration fee on first admission, £1. 12 Union sub (compulsory), 12s 6d. per term

**SCHOLARSHIPS, ETC.** Forlong schols. (value approx. £300 p.a.) and Forlong exhibitions (value £50) are awarded as funds become available. 3 Governing Body undergrad schols. (value £100 p.a.) offered annually on results of exam. held by London Intercollegiate Schols Bd (tenable for 3 or 4 sessions acc to subj.). Governing Body postgrad exhibitions (approx. £325 p.a.) tenable for 1 session with possibility of renewal. Max of 2 exhibitions at any one time. Other *ad hoc* awards may be made to enable grads of merit to complete work for a higher degree or second first degree (value dependent on individual circumstances). Millicent Huxington scholp. (not less than £120 p.a.) tenable for 2 sessions, with possibility of renewal for one further session, for study of Tibetan or other langs. relevant to Buddhist studies for a higher degree of Univ. of London, is awarded as funds become available. China Asscn bursary (£250), tenable for 2 terms, for study of Chinese by student who has entered or intends to enter upon an indust. or comml. career. See also p. 910.

**STUDENT HEALTH SERVICE.** All sch. students able to consult student health adviser. Consulting rooms in no. 2 Woburn Sq (tel.: Museum 7949)

**STUDENT UNION.** All sch. students entitled to facilities, incl. membership of jr. common room, facilities for sport and soc. clubs. Affiliated to univ. union (tel.: Langham 0916).

**PUBLICATIONS.** *Calendar* (free); *Annual Report* (free); *Bulletin* (30s. per part; 3 parts issued per yr.)

## THE YEAR 1961

**PRINCIPAL BENEFRACTIONS** Ford Foundation, \$78,000 to finance, over next 4 yrs., studies of mod. econ. hist. of E., S.-E and S. Asia (supplements an initial grant of \$95,000 made in 1958)

**MAJOR BUILDING DEVELOPMENTS.** *Centrum* completed. 4th floor over existing bldgs.

**NEW CHAIRS.** Assyriol.; Japonist.

U.K.—ENGLAND (LONDON)

**RETIREMENTS** Prof P. A. Wittek (Turkish);  
C. A. Rylands (Sanskrit).

**RESIGNATIONS** J. F. P. Hopkins (Arabic),  
apptd lectr in Arabic, Camb; W. E. Jones  
(phonetics), apptd lectr. in phonetics, Edin;  
J. Lyons (compar linguistics), apptd lectr in  
gen. linguistics, Camb; J. M. Stewart and  
W. A. A. Wilson (W African langs), apptd. res.  
fellows, Ghana.

**DEATHS.** Dr Betty Heimsann (see lectr in  
Sanskrit, 1936-45); A. H. Hall (lectr in Malay,  
1956-59); Sir Cecil Kisch (hon. treasurer,  
1946-61, hon. fellow)

#### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year) \*

	Full-Time	Part-Time
Men . . .	382	80
Women . .	102	31
Total . . .	484	111

\* Totals for the entire session 1961-62 were: full-time, 486; pt.-time, 187.

**Distribution by Faculties.** Arts, 547, *law*,  
48 Total: 595

*Included in the figures above are—*

Postgraduate students, 213.

New admissions, 302

Students from other countries, 365 (Countries  
from which largest numbers came: India, 70;  
U.S.A., 41; Nigeria, 36; Pakistan, 26).

**DEGREES AWARDED** (by Univ. of London)  
(1960-61) Arts: BA hon., 30; MA, 11;  
PhD, 22 *Law*: LL.M., 4, PhD, 1.

**DIPLOMAS AWARDED** (by Sch.) (1960-61).  
Arts, 3, *law*, 2.

**CERTIFICATES AWARDED** (1960-61) 3.

[Information compiled as at August 1962]

## SCHOOL OF PHARMACY

Founded 1841; incorporated by Royal Charter 1952

Postal Address: 29-35 Brunswick Square, London, W.C.2, England

Telephone: TECHNUS 7651-8

**CHAIRMAN OF COUNCIL**—Sir HARRY JEPHCOCK, Bt., DSc *Born*, MSc, FRIC

**DEAN**—F. HARTLEY, BSc PhD, FRIC

**CLERK TO THE COUNCIL AND SECRETARY**—S. R. CURTIS, BA, FCA

## TEACHING STAFF

### Pharmaceutical Chemistry

Whalley, W. B., DSc PhD *Lie*, FRIC  
Summers, L., DSc PhD, FRIC  
Mathieson, D. W., BSc *Glas*, PhD  
Sharp, L. K., BSc PhD, FRIC  
Fleming, R., BPharm PhD  
Gilbert, J. N. T., BPharm PhD  
Glenn, A. L., BPharm BSc PhD  
Marriott, P. H., MSc *Manc*.  
Mudgoy, J. M., MSc *Manc*.

Prof.  
Reader  
Reader  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.

Brown, W. R. L., BPharm PhD  
Lewis, C. J., BPharm  
Ridout, C. W. T.  
Roberts, T. A., BPharm  
Wibberley, K., BPharm  
Bergman, L., BPharm  
Elliott, J., BPharm  
Ganderton, D., BPharm

Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Pharmaceutics

Shotton, E., BSc PhD, FRIC  
Cook, A. M., BPharm PhD DipBact,  
FRIC  
Briggs, A., BPharm PhD

Prof.  
Reader  
Reader  
Lectr.

### Pharmacognosy

Furbairn, J. W., BSc PhD, FRIC, FLS  
Betta, T. J., BPharm  
Challen, S. B., BPharm BSc PhD, FLS  
Holloway, P. J., BPharm  
Lavender, C., BPharm

Prof.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.

**Pharmacology**

Buttle, G. A. H., OBE, MA Camb.

Wellcome Prof.

West, G. B., DSc PhD BPharm

Reader

Bowman, W. C., BPharm PhD

Lectr.

Cullingham, B. A., BPharm PhD

Cass, Rosemary, BSc PhD St And.

Rand, M. J., MSc PhD

Cuthbert, A. W., BSc St And., BPharm

Lectr

Lectr

Lectr

Asst Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Librarian: A. J. Evans, BPharm PhD, Adviser to Overseas Students. L. K. Sharp, BSc

PhD, FRIC Radiation Protection Officer: L. Saunders, DSc PhD, FRIC.

**GENERAL INFORMATION**

The sch., founded by the Pharmaceutical Soc. of Gt. Britain in 1841, was admitted as a sch. of the univ. in 1925. Control of the sch. was transferred from the Pharmaceutical Soc. to a company limited by guarantee in 1949. A royal charter of incorporation was granted to the sch. in 1952. The council of the sch., as now constituted, includes reps. of the Univ. of London, the Pharmaceutical Soc. and the academic bd., as well as certain co-opted members. There is an academic bd. which acts in an advisory capacity.

The sch. is now housed in a new bldg. in Brunswick Sq. which was officially opened by H.M. The Queen Mother in April 1960.

**LIBRARY.** About 3500 vols.

**ADMISSION.** The sch. is open to men and women students. For admission requirements see p. 1066 and Appendix III. Foreign students are admitted on the same terms as British, but are expected to produce identification papers.

**FIRST DEGREE** (of Univ. of London). All undergrad. entrants to the sch. work for the BPharm hon. degree (3 yrs.).

**HIGHER DEGREES** (of Univ. of London). MPharm and PhD in pharmaceutical chem., pharmaceutics, pharmacol., pharmacognosy, pharmaceutical engin. sci. All depts. of the sch. are available for postgrad. and res. work, and the respective profs. and hds. of depts. are always prepared to advise students wishing to undertake res.

**Fees.** Composition fee (incl. union membership), £81 p.a.

**STUDENTS' UNION.** Clubs and societies, athletic and cultural, are open to all students.

**PUBLICATIONS.** *Prospectus*; *Calendar*.

**THE YEAR 1961****Statistics****STUDENT NUMBERS, 1961-62**

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	131	1
Women . . .	58	—
Total . . .	189	1

Included in the figures above are —

Postgraduate students, 36.

New admissions, 61.

Students from other countries, 36. (Countries from which largest numbers came: India, 10; Nigeria, 8).

**DEGREES AWARDED** (by Univ. of London) (1960-61). BPharm hon., 45, MPharm, 1, PhD, 10.

[Information compiled as at 10/9/62]

## UNIVERSITY COLLEGE

Founded 1826; incorporated in the University of London, 1907

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Piggott, Mary, BA, FLA Sr. Lectr.  
Strovelly, R., BA, FLA Sr. Lectr.  
Watson, A. G., MA BLitt Oxon, FLA Lectr.  
Bell, L., BA Oxon. (Archive Admin.) Lectr.  
Denham, E. W., MA Oxon. (Paleog.) Lectr.  
Foskett, D. J., MA, FLA (Sp. Libraries) Lectr.  
Nixon, H. M., BA Oxon, FSA (Biblog.) Lectr.  
Tunings, E. K., MA Camb., FSA  
(Admin. Hist.) Lectr.  
Vollans, R. F., FLA (Public Libraries) Lectr.  
1 Demr

**Mathematics**

Dean, W. R., MA Camb.  
Goldamid Prof., Jt. Hd. of Dept

Rogers, C. A., DSc, FRs

Asst. Prof., Jt. Hd. of Dept.  
 Roth, K. F., BA Camb., MSc PhD, FRs Prof.  
 Du Val, P., PhD Camb., BSc (Geom.) Reader  
 Rosenquist, L. S., MA DSc DPhil Oxon.

(Pure M.) Reader  
 Beermann, T., DNatSc Hamburg, DSc Reader  
 Watson, G. L., MA Camb., PhD DSc Reader  
 Power, E. A., MSc PhD

(on leave) (Appl. M.) Reader  
 Kestelman, H., MSc Asst. Tutor, Reader  
 Archibald, J. W., MA Camb. Sr. Lectr.  
 Wigglesworth, L. A., MSc Sr. Lectr.  
 Delmaste, D. C., PhD Lectr.  
 Few, L., PhD Lectr.  
 Hocking, L. M., MA Camb., MSc PhD

(on leave) Lectr.  
 Machiel, D. H., BSc *Wales*, PhD Camb. Lectr.  
 Rigby, Constance M., MA Oxon., PhD Lectr.  
 Davies, H. L., MA Camb., BSc *Burm*

Asst. Lectr.  
 Smith, S. H., BSc Asst. Lectr.  
 Wallis, R. L., BSc Asst. Lectr.  
 Erdos, P., PhD *Bud*, DSc *Manc.*

Hon. Res. Assoc.  
 Harary, Prof. F., PhD *Calif* Hon. Res. Assoc.  
 Pearson, Prof. E. S., CBE, MA Camb. DSc Hon. Res. Assoc.  
 1 Hon. Res. Asst.

### Mechanical Engineering, see Engin., Mechanical

Municipal Engineering, see Engin., Civil

Norwegian, see Scand. Studies

### Pharmacology

Schild, H. O., MD *Munch*, PhD *Edin*, DSc Prof.  
 Monger, J. L., PhD

(Chem. Pharmacol.) Reader  
 Laurence, D. R., MD, MRCP (Pharmacol. & Therapeutics) Reader  
 Steinberg, Hannah, PhD

(Psychopharmacol.) Reader  
 Jenkinson, D. H., BA MSc *Dub.*, PhD Lectr.  
 Webster, R. A., PhD Lectr.  
 Bergel, Prof. F., DPhil *Net. Acad.*, PhD DSc, FRIC, FRs

(Pharmacol. Chem.) Hon. Lectr.  
 Danelli, Prof. J. F., PhD Camb. & *Lowd.*, DSc, FRs (Cell P.) Hon. Lectr.  
 Feldberg, W. S., CBE, MA Camb., MD *Berl.*, FRs Hon. Lectr.

Gaddum, J. H., MA ScD Camb., FRs Hon. Lectr.  
 Wark, T. S., PhD DSc *Edin.* (Chemotherapy) Hon. Lectr.

Hon. Res. Assoc.  
 Dale, M. Maureen, BSc MB *Bch. Lond.* Hon. Res. Assoc.

Decker, S. E., MD *Brussels*, PhD DSc *Brist.* Hon. Res. Assoc.  
 4 Hon. Res. Assis., 1 Hon. Consultant Pharmacist

Philology, see Compar. Philol

### Philosophy

Hampshire, S. N., MA Oxon., FBA (P. of Mind & Logic) Grote Prof.  
 Wolfheim, R. A., MA Oxon. Reader  
 Cavendish, A. P., BA Lectr.  
 Downing, P. B., MA Camb., PhD Lectr.  
 Spriggs, T. L. S., MA PhD Camb. Lectr.  
 Watling, J. L., PhD Lectr.  
 Williams, B. A. O., MA Oxon. Lectr.

### Phonetics

Fry, D. B., PhD (Exper. P.) Prof.  
 Gimson, A. C., BA Reader  
 Arnold, G. F., BA Lectr.  
 Chapallais, Marguerite, MA Lectr.  
 Fourcin, A. J., BSc(Eng) PhD Lectr.  
 Goldman-Euler, Mrs. Frieda, DPhil *Vienna*

Lectr.  
 O'Connor, J. D., BA Lectr.  
 Pring, J. T., MA Oxon. Lectr.  
 Tooley, Olive M., BA Lectr.  
 Bennett, D. C., BA Asst. Lectr.  
 Wells, J. C., BA Camb., MA Asst. Lectr.  
 3 Hon. Res. Assis.

### Photogrammetry and Surveying

Thompson, E. H., OBE, BA Camb. Prof.  
 Miskin, E. A., MA Oxon., BSc *Staff.*, PhD (on leave) (Photogrammetry) Reader  
 Biddle, C. A., MA Camb. Sr. Lectr.  
 Brown, Mrs. Veronica, BSc Lectr.  
 Mason, D. P., MA Oxon. Lectr.  
 Mees, A., *Dipling Warsaw* Lectr.  
 1 Asst.

### Physics

Manney, Sir Harrie, MSc *Melb.*, DSc *Belf.*, PhD Camb., LL.D. *Glar.*, FRs Quain Prof., Dir. of Labs.

Barthop, E. H. S., BA MSc *Melb.*, PhD Camb. (on leave) Prof.  
 Hamilton, J., MA Camb., MSc *Belf.*, PhD *Manc.* Prof.

Gibbs, R. E., DSc, FIP Reader, Dep. Dir. of Undergrad. Labs.  
 Boyd, R. L. F., BSc(Eng) PhD, MIEE Reader  
 Brown, G. B., MSc *Manc.*, PhD Reader  
 Dodd, C., PhD Reader

Hasted, J. B., MA DPhil Oxon. Reader  
 Heymann, F. F., BSc(Eng) *Cape T.*, PhD

Reader  
 Seaton, M. J., BSc PhD  
 Brown, R. C., PhD Sr. Lectr.  
 Jennings, R. E., PhD Sr. Lectr.  
 Aitken, D. K., PhD (on leave) Lectr.  
 Davis, D. G., PhD Lectr.

Duff, M. J. B., PhD Lectr.  
 Fox, J. W., PhD Lectr.  
 Gubbins, H. B., PhD Lectr.  
 Griffith, T. C., PhD *Wales* Lectr.  
 Groves, G. V., MA *Camb.*, PhD Lectr.  
 Heddle, D. W. O., PhD *Fdg.* Lectr.  
 Henderson, C., PhD Lectr.  
 Heyland, G. R., PhD Lectr.  
 Rind, R. E., PhD Lectr.  
 Roberts, P. W., PhD Lectr.

Lectr., Adviser on Radiation Hazards  
 Stannard, F. R., PhD Lectr.  
 Williams, A. P., PhD Lectr.  
 Zennaro, S., PhD *Liv.* Lectr.  
 Bowen, P. J., BSc(Biol) PhD Hon. Res. Assoc.  
 Buckingham, R. A., PhD *Camb.* Hon. Res. Assoc.

Robins, M. O., MA *Oxon.*, FIP Hon. Res. Assoc.  
 Treffitt, Eleanor E., DrRerNat *T H Druden* Hon. Res. Assoc.  
 Varasvsky, Prof. C. M., BSc *Colorado*, MA PhD *Hav.* Hon. Res. Assoc.  
 1 Asst., 12 Temp. Res. Assts., 19 Hon. Res. Assts.

### Physiology

Huxley, A. F., MA *Camb.*, FRS Jodrell Prof.  
 Gray, J. A. B., ScD MA MB BChir *Camb.* Prof.  
 Eggleston, M., Gasc, DSc Reader  
 Harkness, R. D., BSc MB BS Reader  
 Schachter, M., MSc MD CM *McG.* Reader  
 Walker, D. R., MD *Yale*, MB BS Reader  
 MRCP (Exper. F.) Reader  
 Diamond, J., PhD MB BS (on leave) Lectr.  
 Harkness, Mrs Margaret L. R., BSc Lectr.  
 Hubbard, S. J., PhD Lectr.  
 Lippold, O. C. J., MB BS Lectr.  
 Neal, A. R., BSc Lectr.  
 Pascoe, J. E., BSc Lectr.  
 Dawson, G. D., MSc MB ChB *Manc.* Hon. Lectr.

Hutter, O. F., PhD Hon. Lectr.  
 Lewis, H. E., BSc MB ChB *Cape T.* Hon. Lectr.  
 Noble, D., PhD Asst. Lectr.  
 Wolledge, R. C., BSc Sharpey Scholar  
 Bayliss, L. E., BA PhD *Camb.* Hon. Res. Assoc.  
 Davson, H., DSc Hon. Res. Assoc.  
 Hill, Prof. A. V., CH, OBE, ScD *Camb.*,  
 LL.D. *Belf.* & *Edin.*, DSc *Oxon.*, *Manc.*,  
*Leige*, *Johann H.*, *Rockefeller* & *Col.*,  
 MD *Lowen*, FRS Hon. Res. Assoc.  
 Latham, W., BS MD *Exon* Hon. Res. Assoc.  
 1 Res. Asst., 6 Hon. Res. Assts.

### Political Economy

Allen, G. C., CBE, MCom PhD *Bryn.* Prof.  
 Bowley, Marian E. A., BSc(Econ) PhD Reader  
 Corlett, W. J., MA *Camb.* Reader  
 Tout, H., CMG, MA *Oxon.* Reader  
 Sturges, S. G., MSc *Adel.*, PhD *Manc.* Tutor, Lectr.  
 Cramp, A. B., BA *Durh.*, PhD Asst. Tutor, Lectr.

Donnanthorne, Audrey G., MA *Oxon.* Lectr.  
 (Chinese Econ. Studies) Lectr.  
 Masumdar, D., BA *Calc.* & *Camb.*,  
 PhD *Camb.* (on leave) Lectr.  
 Spraos, J., MA *Edin.* Lectr.  
 Sutherland, A., MA *Yale* Lectr.  
 Díaz-Rey, M., BSc(Econ) Lectr.  
 (Latin-American Econ. Studies) Lever-  
 hulse Asst. Lectr.

2 Res. Assts

### Psychology

Drew, G. C., MA *Bryn.* Prof.  
 Whitfield, J. W., MA *Camb.* Reader  
 Kerr, Gertrude H., MA *St. And.* St. Lectr.  
 Audley, R. J., PhD Lectr.  
 Banks, E. K., Charlotte, PhD Lectr.  
 de Monchaux, Cecily, BA *Syd.*,  
 PhD *Lowd.* Lectr.  
 Dixon, N. F., MBE, PhD *Rdg.* Lectr.  
 Foulds, G. A., MA *Liv.*, PhD Lectr.  
 Green, R. T., PhD Lectr.  
 Jonckheere, A. R., PhD Lectr.  
 Kelvin, R. P., MA *Oxon.*, PhD Asst. Tutor, Lectr.

Marshall, Mildred, BA *Sau. Franciscan*,  
 PhD Lectr.  
 Pond, D. A., MD *Camb.* & *Duke*, DPM,  
 FRCP Lectr.  
 Rawlings, Grace, BA Lectr.  
 Legge, D., BSc Asst. Lectr.  
 Soddy, K., MD DPM Hon. Lectr.  
 Downer, J. L., de C., MSc *McG.*,  
 PhD *Yokoh.* Hon. Res. Assoc.  
 Marshall, A. J., BA *W. Aust.*, PhD Hon. Res. Assoc.  
 Summerfield, Prof. A., BSc *Manc.* & *Lowd.* Hon. Res. Assoc.  
 1 Demr., 2 Assts., 14 Hon. Res. Assts.

### Scandinavian Studies

Smith, Prof. A. H., OBE, PhD *Leeds*,  
 FdDr *Uppsala*, DLit, FSA (see also  
 Engl.) Dir.  
 ..... Visiting Prof.  
 Foote, P. G., MA (Old Scand.) Reader  
 Glyn Jones, W., PhD *Camb.* Lectr.  
 (Danish) Queen Alexandra Lectr.  
 Stedevad, T., CandPhilol *Oslo* Lectr.  
 (Norwegian) W. P. Ker Lectr.  
 Bergmann, S. A., FdMag *Göteborg* Lectr.  
 (Swedish) Crown Princess Louise Lectr.  
 Benedikt, E., CandPhil *Copenhagen*,  
 MA *Leeds* (Mod. Icelandic) Hon. Lectr.

### Science, History and Philosophy of

McKie, D., DSc PhD, FRIC Prof.  
 Airmidge, A., MSc PhD Reader  
 Heathcote, N. H., de V., PhD Sp. Lectr.  
 Gibbs, F. W., DSc PhD, FRIC Lectr.  
 (Hist. of Technol.) Hon. Lectr.  
 Underwood, E. A., MA BSc MD *Glas.*,  
 MRCP (Hist. of Med.) Hon. Lectr.

Smooton, W. A., MSc PhD, FRIC Lectr.  
Wilkie, J. S., PhD Lectr.  
Finlay, M. B., BS *Northwestern*, MA *Tor*  
Asst Lectr.

**Statistics**

Bartlett, M. S., MA Camb., DSc, FRS Prof  
David, Florence N., DSc Reader  
(on leave) (Probability & Stats.) Reader  
Johnson, N. L., MSc PhD, FIA Reader  
Barton, D. E., PhD Lectr.  
Lewis, N. W., MA Oxon. Lectr.  
Pleasant, N. W., BSc Lectr.  
Hawkes, A. G., BSc Asst. Lectr.  
Scheffé, Prof H., PhD *Wis.* Hon. Res. Assoc.  
1 Dem. & Res. Asst., 1 Asst.

**Surveying, see Photogrammetry****Swedish, see Scand. Studies****Town Planning**

Holford, Sir William, MA Hon. LL.D. *Liv.*,  
Hon. DCL *Durk.*, FRIBA Prof.  
Keeble, L. B., MC, MA *Manch.*, BSc  
Sr. Lectr., Dir. of Studies  
Clarke, J. J., MA *Liv.* Sp. Lectr.  
Youngman, G. P., MA Camb.  
(Landscape Design) Lectr.  
Baker, L. F., MA Lectr. & Drawing Office Instr.  
Glass, Mrs. Ruth, MA Col Hon. Res. Assoc.  
Schäffgenberg, B., *DrArch Rome* Visiting Lectr.  
2 Hon. Res. Assts.

**Zoology and Comparative Anatomy**

Abecrombie, M., MA BSc *Oxon.*, FRS  
Jodrell Prof.  
Wells, G. P., MA ScD *Camb.*, FRS Prof.  
Boycott, B. B., BSc Reader  
Smith, J. M., BA *Camb.*, BSc Reader  
Freeman, R. B., MBE, MA *Oxon.* (Taxonomy) Reader  
Kermack, K. A., PhD (Vertebrate Palaeontol.) Reader  
Bleat, A. D., DPhil *Oxon.*, BSc Lectr.  
O'Connor, F. B., PhD *Wales* Lectr.  
Curtis, A. S. G., MA *Camb.*, PhD *Edin.* Lectr.  
Fisher, R. C., MA PhD *Camb.* Lectr.  
Robinson, Pamela Lampugh, PhD Lectr.  
Whitsett, Mery, PhD Lectr.  
Vickerman, K., PhD (Protozool.) Wellcome Res. Fellow &  
Hon. Lectr.  
Dee, Jennifer J., PhD *Glas* Asst. Lectr.  
Brunt, L., PhD Hon. Res. Assoc.  
Comfort, A., MA MB BChir *Camb.*,  
PhD Hon. Res. Assoc.  
Flynn, Prof. T. T., MBE, DSc *Syd.* Hon. Res. Assoc.  
Fraser, Elizabeth A., DSc Hon. Res. Assoc.  
Medawar, P. B., CBE, MA *Oxon.*, DSc  
*Oxon.* & *Hull*, ScD *Camb.*, DULdge,  
FRS Hon. Res. Assoc.  
Newth, Prof. D. R., PhD Hon. Res. Assoc.  
Watson, Prof. D. M. S., DSc *Cape T.*, *Manc.*  
& *Rand*, LL.D. *Aberd.*, FRS Hon. Res. Assoc.  
2 Res. Assts., 1 Temp. Res. Asst., 4 Hon.  
Res. Assts.

**ADMINISTRATIVE AND OTHER STAFF**

ADMINISTRATIVE OFFICERS: Finance Sec. and  
Accountant: H. W. Claxton, OBE, PCA.  
Bursar: E. H. Swain. Registrar: A. J. L.  
Cahill, BSc(Econ) Establishment Officer: R.  
Blackaby Asst. Sec. Winifred Radley. Exec.  
Asst.: S. Angus, OBE, MA. Supt. of Office  
Services: R. L. Gregory. Adviser on Protection  
against Radiation Hazards: P. W. Roberts, PhD.

TUTORIAL. Sr. Tutor and Tutor to Arts Students:  
R. D. McLellan, PhD Tutor to Law Students:  
D. C. Holland, MA *Camb.* Tutor to Sci. Students:  
R. E. Gibbs, DSc, FIP Tutor to Engin.  
Students: H. Marriott, BEng *Staff.*, BSc(Econ),  
MIRE Tutor to Med. Students: D. W. James,  
MB BS. Tutor to Women Students: Mrs. Olive

D. Maguinness, MSc DSc. Adviser to Post-  
grad. Students: D. J. B. White, PhD Super-  
visor of Dental Students: R. D. Harkness, BSc  
MB BS

LIBRARY. Dep. Librarian: I. D. Angus, MA  
*Camb.*

WARDENS OF HALLS OF RESIDENCE. R. B.  
Freeman, MBE, MA *Oxon.* (Bentham Hall);  
Kathleen Law, MSc *Edin.*, PhD (Campbell Hall)

STUDENT HEALTH CENTRE. Dir. & Asst.  
Physician: C. J. Lucas, MB BS DPM, Physician.  
A. Lenker, MB BCh *Rand*

APPOINTMENTS. Careers Adviser: R. C.  
Brown, PhD

**GENERAL INFORMATION**

University Coll., London, was founded in the  
year 1826 and opened on Oct. 1, 1828, under the  
title of the University of London. It was incor-  
porated as University Coll., London, by royal  
charter dated Nov. 28, 1836. This charter was  
annulled by act of parliament, passed June 24,

1869, whereby the coll. was reincorporated with  
addition, powers and devoted of its proprietary  
character. On Jan. 1, 1907, in accordance with  
the provisions of the University Coll. London  
(Transfer) Act, 1905, passed July 11, 1905, the  
coll. was incorporated in the Univ. of London.

The facs. of arts and laws, and med., were establ. in 1832, the fac. of sci. in 1870 and the fac. of engin. in 1908, the Slade Sch. of Fine Art in 1897, the Bartlett Sch. of Archit. in 1913, and the Sch. of Librarianship in 1919. Full admission of women to the coll. was permitted in 1878.

**INCOME** Total income (1960-61). £1,978,132 (govt. grants, 86.5 per cent.; fees, 8.1 per cent.; endowments, 2.8 per cent.; misc., 2.6 per cent.).

**FACULTIES AND DEANS** *Arts*, Prof. G. C. Allen (pol. econ.); *engin.*, Prof. M. B. Donald (chem. engin.); *laws*, Prof. E. C. Ryder, and *sci.*, Prof. J. Z. Young (anat.); *sci.*, Prof. W. R. Dean (maths). The fac. of arts includes the Slade sch. of fine art, the sch. of librarianship & archives, the Bartlett sch. of archit. and the dept. of town planning.

**COLLEGES PRINCIPAL** The coll. bldgs. are being devel. within a precinct bordered by Gower St., Gower Place, Gordon St. and Square, and Torrington Place. The dept. of town planning is situated outside this precinct, in Flaxman House, Flaxman Terrace, W.C.1.

**LIBRARY** Some 710,000 vols. and pamphlets, covering all subjs. taught in the coll. The working collections in classical archaeol., Egyptol., London, American and Latin-American hist., and Scand. studies, and its sets of periodicals in all subjects, are particularly strong. Important MSS. collections are: papers of Jeremy Bentham (75,000 sheets), over 50,000 letters addressed to Lord Brougham; minute books, correspondence, etc., of the Soc. for the Diffusion of Useful Knowledge; papers of Sir Edwin Chadwick; papers of Sir William Ramsay, and letters and sketches of George Orwell. Other sp. collections are Græve early sci. libr.; Bailow Dante libr.; Whitley Stokes Celtic libr.; Smith Woodward palæontol. libr.; C. K. Ogden libr.

The libraries of the following learned socs. are housed in the coll. library: British Soc. of Franciscan Studies; Geologists' Assocn.; Folk-Lore Soc.; Hertfordshire Nat. Hist. Soc. & Field Club; Huguenot Soc.; London Mathematical Soc.; Malacological Soc.; Mocatta Libr. of Anglo-Judaica; Philological Soc.; Viking Soc. for Northern Res.

**MUSEUMS, OBSERVATORY, BOTANICAL GARDEN AND FIELD STATION** *Museums*: anat., archit., bot., Egyptol., geol. & mineral., Jewish antiquities (Gustave Tuck), vulcanological (Johnston-Levis collection), zool. *Univ. Observatory*, Mill Hill Park, N.W.7 (tel., Mill Hill 1618); administered by Univ. Coll. since 1951, designed to meet needs of undergrad. and postgrad. workers in astron. Applen. for admission should be made to the dir., Prof. C. W. Allen, DSc W. Aust Nuffield Res. Garden, Regent's Park, N.W.1; administered by Univ. Coll. since 1953; for population and cytogenetic studies on plants. *Blakeney Field Sta.*, maintained by dept. of bot. since 1910 for field trig. and res. on maritime ecol.

**COMMUNICATION RESEARCH CENTRE** Formed in 1953, concerned with usage and efficiency of signs and symbols, and at present engaged in res. on trade, professional and similar dialects of English, enquiries to sec. Communication Res. Centre, Univ. Coll., Gower St., W.C.1.

**ADMISSION** See p. 1066 and Appendix III. Admissions to undergrad. courses are arranged by the fac. tutors in consultation with the depts. concerned. There is no general coll. entrance exam., but sp. entrance tests are set for candidates desiring admission to certain depts. A very limited number of places is available in certain facs. and depts. for students who are not registered with Univ. and wish to attend individual lecture courses.

Foreign students are admitted to the coll. on the same terms as British, but their applns. should be made through the appropriate authorities in this country or through the British Council. The Ramsey Memorial fellowships in chem. sci. founded by certain foreign govts. are tenable at Univ. Coll., Lond., among other places.

**FIRST DEGREES** (of Univ. of London). The coll. provides courses for degrees of the Univ. of London as listed below. 3 yrs.—BA (hons. in archit., classics, Engl., French, geog., German, hist., Italian, philos., psychol., etc., BSc(Econ), LL.B., BSc (spec.) in biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., stats., zool., etc., BSc(Archit.); BSc(Eng) in chem., civil, elect., mech., engin.; 5 terms—med. (pre-clin. only).

**HIGHER DEGREES** (of Univ. of London) MA, MSc(Econ), LL.M., MSc, MSc(Eng), a yrs from corresp. 1st degree. Courses of instructn. provided for most master's degrees. PhD in arts, econ., laws, sci., engin., med., a yrs from 1st degree (3 yrs. sci., engin.). Higher degrees are open to grads. of other univs.

**DIPLOMAS** *Awarded by Univ. of London* Undergrad.: fine art, 4 yrs. Postgrad.: anthropol., archaeol., Egyptol., phonetics, normally 2 yrs.; archive admin., law, librarianship, psychol., stats., town planning, normally 1 yr. *Awarded by the coll.* Postgrad.: Engl. linguistic studies, chem. engin., biochem. engin., conservation, micropaleontol., microwave engin., space sci., photogrammetry, surveying, 1 yr.

**CERTIFICATES** *Awarded by the coll.* Undergrad.: landscape design, 2 yrs.; town planning, phonetics, Scand. lang., normally 1 yr.

**RESEARCH** All depts. as set out above in the teaching staff list are available for postgrad. res. work, and the respective profs. are always prepared to advise students wishing to undertake res.

**FEES** (1962-63). Entrance registration, £2.10s.; overseas students, £3.10s. Tuition composition fee. *Degree courses—undergrad.* arts, £70 to £80 p.a.; archit., £85 p.a.; laws, day, £70 p.a., evg., £45 p.a.; sci., £75 to £85 p.a., engin., £85 p.a.; med., for and exam.,

£150 (3 terms); econ., £70 p.a. Postgrad: full-time, MA and PhD in arts, £60-£70 p.a.; MSc(Econ.), LL.M., PhD in econ. & laws, £60 p.a.; MA and PhD in archit., £75 p.a.; MSc and PhD in sci., £60-£75 p.a.; MSc(Eng) and PhD in engin. and med., £75 p.a. *Univ. academic* or *postgrad* dipl. in archæol., archive admin., Egyptol., law, librarianship, phonetics, £60; anthropol., £65; psychol., stats, £70; town planning, £35; univ. dipl. in fine art, £70 p.a. *Coll. dipl. and cert.*: Engl. linguistic studies dipl., £60; biochem. engin., chem. engin., conservation, micropaleontol., microwave engin., photogrammetry, space sci., surveying dipl., £75; landscape design cert., day, £40 (3 yr.), evg., £25 p.a. (2 yrs.); town planning cert., evg., £35

**ACADEMIC YEAR** Each session, comprising 3 terms of about 10 wks. each, begins on last Monday in Sept. or first in Oct. and ends on last, or last but one, Friday in June.

**VACATION COURSE** (2 wks. in July) in Engl. phonetics for foreign students and teachers.

**ENTRANCE SCHOLARSHIPS** Open awards for undergrads. in arts, 7, agg. value £285 p.a.; archit., 2, agg. value £30 p.a.; fine art, 2, agg. value £30 p.a.; librarianship & archives, 2, agg. value £80 p.a.; sci., 2, agg. value £80 p.a.; law, 1, value £40 p.a.; med. sci., 3, agg. value £124 p.a.; engin., 1, value £50 p.a.; archit. or fine art, 1, value £40 p.a.; any fac., 2, agg. value £80 p.a.

## THE YEAR 1961

**PRINCIPAL BENEFICIARIES** U.S. National Insts. of Health, \$84,144 for res. in depts. of eugenics, zool., anat., pharmacol., biophys., and biochem.; U.S. Air Force, \$67,826 for res. in depts. of anat., chem. engin., phonetics, chem. and phys.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* 1st and 2nd stages of new engin. bldg.

**RETIREMENTS.** Dora Starke (French); Prof. F. R. Winton (pharmacol.); D. O. Wood (careers adviser)

**RESIGNATIONS.** Dr. G. Aquilecchia (Italian), apptd. to chair of Italian, Manc.; K. M. Barbour (geog.), apptd. to chair of geog., U.C.; Rhaden; G. W. S. Barrow (hist.), apptd. to chair of mediev. hist., King's Coll., Durh.; J. C. Crossley (geog.), apptd. lect., Leic.; Dr. P. Denes (phonetics), apptd. to post in industry, U.S.A.; Prof. L. W. Forster (German), apptd. to Schröder chair of German, Camb.; O. F. Hutter (physiol.), apptd. to Nat. Inst. for Med. Res., Dr. W. B. Lush (phys.), apptd. as lect. in phys., Q'ld.; J. H. P. Pafford (librarianship & archives), Dr. I. C. Percival (phys.), apptd. reader in appl. maths, Queen Mary Coll., Lond.; Dr. Y. Pocker (chem.), apptd. to chair of chem., Wisc.; Prof. C. M. Robertson (archæol.), apptd. to Lincoln chair of

POSTGRADUATE AWARDS open to grads. of other univs. see p. 910

**OLD STUDENTS' ASSOCIATION**, founded in 1890.

**STUDENT HALLS OF RESIDENCE.** Bentham Hall, 31-44 Cartwright Gdns., W.C.1 (tel. Euston 1816), for men; fees, £135 to £148 per session; Campbell Hall, 5-10 Tavistock St., W.C.1 (tel. Euston 1891), for women; fees, £135 to £148 per session.

**STUDENT HEALTH ASSOCIATION.** Establd. in 1945 for students and other members of the coll. Its work is governed by cttee. representative of coll. cttee. and unives. Every student of the coll. is a member; membership is optional for other members of the coll. Health centre in coll. for treatment and general health exams; general practitioner service under N.H.S. Act available to all members of coll. who register with assocn's physician; dental treatment; mass radiography survey; rev. into student health problems.

**STUDENTS' UNION.** The original union sec. (founded 1893) and the women's union 800 (founded 1897) were federated in 1954. The athletic ground is at Shenley, Herts.

**PUBLICATIONS.** *Calendar* (Oct.), 179 6d.; *Annual Report*; *University Coll. London*, 1926-1926, by Prof. H. Hale Bellot (Univ. of London Press); *essays* to University Coll., 1929, 29s.; *Inaugural Lectures* (list from University Coll.); *Students' Handbook*; *students' magazine*, *New Phoenix*; *students' newspaper*, *PI*, various fac. and dept. *Prospectuses*

archæol., Oxford; Dr. J. P. Stevenson (zool.), apptd. to Univ. Coll. Hosp. Med. Sch.; Dr. A. W. Steiner (pol. econ.), apptd. to chair of econ., Makerere U.C.; A. Summerfield (psychol.), apptd. to chair of psychol., Birkbeck Coll., Lond.; A. J. Taylor (hist.), apptd. to chair of mod. hist., Leeds; Dr. D. F. Walker (French), apptd. reader in renaissance studies, Warburg Inst., Lond.

**DEATHS.** Emer. Prof. N. H. Baynes (prof. of Byzantine hist., 1931-42); A. E. Webb (ex. lect. in mech. engin., 1926-51)

## Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	3273	376
Women . . .	752	217
Total	3025	593

*Distribution by Faculties.* Arts, 1529; econ., 151; engin., 289; laws, 450; med. sci., 178; sci., 1021. Total. 3618

*Included in the figures above are:—*

Postgraduate students, 564.

New admissions (full-time) Undergrad., 891; postgrad., 198.

Students from other countries, 715. (Countries from which largest numbers came: Nigeria, 85; India, 71; U.S.A., 57)

DEGREES AWARDED (by Univ. of London) (1960-61) *Archit.*: BA hon., 7; *Arts*: BA segrotat., 1; BA hon., 174; MA, 10; PhD, 18. *Econ.*: BSc(Econ), 6; BSc(Econ) hon., 23 (incl. 4 students july registered at another instn.); MSc(Econ), 2. *Engn.*: BSc(Eng), 12; BSc(Eng) hon., 29; BSc(chem. engn.), 3; BSc(chem. engn.) hon., 8; MSc(Eng), 2, PhD, 12. *Law*: LLB, 25; LLB hon., 43; LL.M., 12. *Med.*: PhD, 1; *Sci.*: BSc, 3; BSc segrotat., 1;

BSc hon., 208; MSc, 23; PhD, 63 (incl. 3 students july registered at another instn.); DSc, 10. Total number of first degrees awarded, 543

DIPLOMAS AWARDED (1960-61) *By Univ. of London*: archaeol., 3; archive admin., 6; fine art, 43; law, 9; librarianship, 27; phonetics, 1; psychol., 6; stat., 4; town planning, 17. *By Coll.*: archit., 20; biochem. engn., 2; chem. engn., 12; microanal. control., 4; photogrammetry, 7; surveying, 1.

CERTIFICATES AWARDED (1960-61). *By Univ. of London*: cert. of proficiency in Engl., 2. *By Coll.*: archit., 29; decoration, 9; landscape design, 5; phonetics, 16; town planning, 28

[Information compiled as at 14/8/62]

## WESTFIELD COLLEGE\*

Founded 1882; incorporated by Royal Charter 1933

*Postal Address*: Keddarpore Avenue, Hampstead, London, N.W. 3, England  
*Telephone and Telegrams*: Hampstead 7601

CHAIRMAN OF COUNCIL—Rt. Rev. THE LORD BISHOP OF CHESTER

PRINCIPAL—Mrs. PAMELA W. MATTHEWS, BSc(Econ)

SECRETARY TO COUNCIL—ROSALIE M. FORSTER, BA

## TEACHING STAFF

### Biology

Fogg, G. E., PhD Camb., BSc Prof.  
Cunnell, G. J., BSc PhD Lectr.  
Clymo, R. S., BSc PhD Lectr.  
Gray, D. O., BA Comb. Asst. Lectr.  
Luck, Kathleen E., BA Comb. Asst. Lectr.

### Chemistry

Klyne, W., MA Oxon., PhD Edin., DSc Prof.  
Aylett, B. J., MA PhD Comb. Lectr.  
Throssell, J. I., BSc Natl., PhD Syr Lectr.  
Emerson, T. R., BSc PhD Lectr.  
Scopes, Mrs. Patricia M., BA BSc DPhil Oxon. Asst. Lectr.  
Walton, Arnette, BSc PhD Natl. Asst. Lectr.  
Hay, J. M., BSc Aberd. Asst. Lectr.

### Classics

Jones, D. M., MA Oxon. Prof.  
Barratt, Christine, MA Oxon. Lectr.  
Glenville, Irene M., MA Oxon., PhD Lectr.  
Beare, Rhona, BA Comb. Asst. Lectr.

### English Language and Literature

Jenkins, H., DLitt Rand, MA Prof.  
White, Beatrice M. I., MA DLit, FRSL, Reader  
FRHistS, FSA  
Dorach, T. S., BA Add., MA Oxon. Lectr.  
Mackenzie, Eileen K. A., BA PhD Lectr.  
Harlow, C. G., MA BLitt Oxon. Lectr.  
Southam, B. C., MA BLitt Oxon. Asst. Lectr.

### French Language and Literature

Johnston, R. C., MA Oxon. & Lond., Prof.  
DUSiran.  
Dickinson, Gladys, L&L Lyonn., BA Prof.  
Rutherford, Mrs. Marie-Rose, MA PhD Lectr.  
Curtis, Renée L., BA PhD Lectr.  
Allott, T. J. D., BA BLitt Oxon. Lectr.  
Groves, Margaret, BA Birm. Asst. Lectr.  
Chevrier, Danièle, L&L Grenoble Lectrice

### German

Beare, Mary, MA Belf. & Camb., PhD Bonn Reader  
Wynn, Mrs. Marianne, MA Melb., Lectr.  
PhD Comb.

\* For women. (Men are admitted for postgraduate work).

Waldeck, Marie-Louise M. L., BA	Asst. Lectr.	March, P. V., BSc PhD <i>Birm.</i>	Lectr.
Rost, Marie-Louise	Lektorn	Griffiths, R. J., BSc <i>Wales</i> , PhD <i>Miam.</i>	Lectr.
<b>History</b>		Cook, C., BSc PhD	Lectr.
McKusack, May, MA BLitt <i>Oxon.</i> , FSA	Prof	Roulett, Mrs. Penelope A., BA <i>Oxon.</i>	
Hill, Rosalind M. T., MA BLitt <i>Oxon.</i> , FSA, FRHistS	Reader	<b>Spanish</b>	
Rubinstein, N., PhD <i>Florence</i> , FRHistS	Reader	Martin, R. W., MSc	Asst. Lectr.
Anderson, Mrs. Olive R., MA BLitt <i>Oxon.</i>	Lectr.	Bull, V. A., BSc	Asst. Lectr.
Whitman, J. R., BA BPhil <i>Oxon.</i>	Asst. Lectr.	Webster, Janet, BSc	Asst. Lectr.
<b>Italian</b>		<b>Spanish</b>	
Waley, Mrs. Pamela, BA	Lectr.	Varey, J. E., MA PhD <i>Cambr.</i>	Reader
<b>Mathematics, Pure and Applied</b>		Dyerwood, A. D., MA BLitt <i>Oxon.</i>	Lectr.
Sondheimer, E. H., MA PhD <i>Cambr.</i>	Prof	Wiley, Mrs. Pamela, BA	Lectr.
Stanley, Gertrude K., BSc <i>Oxon.</i> , MSc	Reader	Chapman, Janet A., MA <i>Oxon.</i> , AM <i>Harv.</i>	Lectr.
Taylor, S. J., BA <i>Belf.</i> , PhD <i>Cambr.</i>	Reader	Martinez Localde, Guadalupe, LeonFolkLot <i>Madrid</i>	Lectora
Fishel, B., BSc	Lectr.	<b>Zoology</b>	
Hebborn, J. E., BSc PhD	Lectr.	Webb, J. E., DSc PhD	Prof.
Scottfield, Eura J., MSc <i>Exet.</i> , BSc	Lectr.	Sandson, Miss Eyvor E., BSc <i>St. And.</i> , PhD <i>Edin.</i>	Lectr.
Doman, B. G. S., BA <i>Oxon.</i>	Asst. Lectr.	Griffith, J., BSc <i>Wales</i> , PhD	Lectr.
Lampitt, G. A., BSc	Asst. Lectr.	Newell, R. C., BSc	Lectr.
Norman, C. W., BSc <i>Birm.</i> , DPhil <i>Oxon.</i>	Asst. Lectr.	<b>MAYNARD DIVINITY LECTURER</b>	
Essam, J. W., BSc	Asst. Lectr.	1962-63—Rt. Rev. & Rt. Hon. J. W. C. Wand, KCVO, MA <i>Oxon.</i> , Hon. DD <i>Oxon.</i> , <i>W. Ont. &amp; Lond.</i> , Hon. STD <i>Tor.</i> , Hon. DLitt <i>Ripon</i>	
<b>Physics</b>			
Bellamy, E. H., MA PhD <i>Cambr.</i>	Prof.		
Donovan, B., BSc PhD	Reader		

## ADMINISTRATIVE AND OTHER STAFF

Librarian: Dorothy M. Moore, BA <i>Belf.</i> , FLA, Registrar: Joan M. Sims, MA <i>Cambr.</i>	J. B. Bate Domestic Bursar	Margaret Hills
Finance Officer: Gwen Chambers, MA <i>Oxon.</i>	Radiation Protection Officer	Prof. E. H. Bellamy, MA PhD <i>Cambr.</i>
Asst. Sec.: Eileen McCully, BA, Bldgs. Officer		

## GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown for the higher educ. of women, the coll. is un-denominational, but the principal must be a member of the Church of England. Governed by a council which incl. the principal and reps. of the L.C.C., the univ., the staff and old students. A sch. of the univ. in arts and sci. New depts. of bot., chem., phys. & zool. headed by profs., opened in Oct. 1961. Situated nr. Hampstead Heath with residential accomm. for 300 students.

**LIBRARIES.** The coll. libraries have spacious reading rooms and contain approx. 48,000 vols. and pamphlets and a microfilm reader.

**LABORATORIES** for res. in bot., chem., phys. and zool.

**ADMISSION.** See p. 1066 and Appendix III. Students are not admitted under the age of 18 and are required to take the coll. schol. and entrance exam., at which open schol. and exhibitions (aggregate value £1050) are awarded

annually. Men as well as women students are admitted to read for higher degrees.

**FIRST DEGREE** (of Univ. of London). The coll. provides 3-yr. courses for the following degrees of the Univ. of London: BA (hons.) in classics, Greek (with Latin), Latin (with Greek), Engl., French, German, hist., maths., Spanish; BSc (spec.) and BSc (gen.) in bot., chem., maths., phys., zool.

**HIGHER DEGREES** (of Univ. of London). MA and PhD in classics, Engl., French, German, hist., maths., Spanish; MSc and PhD in bot., chem., maths., phys., zool.

**FEE** Tuition—undergrad.: arts, £52 p.a.; sci., £70 p.a. Postgrad.: arts, £52 p.a.; sci., £70 p.a. Union sub. (compulsory), £3 p.a. Residence, £160 per session.

**STUDY LEAVE** Study leave (1 or 2 terms) is normally given every 7th yr. to members of staff in lect. and higher grades.



**HEALTH SERVICE.** A student health service has been established under the care of the nursing sister (S.R.N.) with a sick-room and dispensary.

**ATHLETIC FACILITIES.** Near-by athletic ground with 3 tennis courts, hockey, net-ball and cricket

pitches. There are also 3 hard and 2 grass tennis courts in the coll grounds.

**PUBLICATIONS.** *Prospectus* (May), *Report* (Oct.), both issued free of charge; *Hermes* (old students' mag.), 1s 6d; *Old Students' Directory*, 3s. 6d.

### THE YEAR 1961

**NEW PROPERTIES.** No 330 Finchley Rd. bought (now houses 14 students & 1 sr. member)

**MAJOR BUILDING DEVELOPMENTS.** *Approaching completion:* sci bldg for new depts. of bot., chem., phys & zool

**RETIREMENTS.** B E C. Davis (Engl.).

**RESIGNATIONS.** F L Carston (hist.), apptd to Masaryk chair of central European hist, Lond; W. B Pennington (maths.), apptd to chair of maths., Wales

#### Statistics

##### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	12	4
Women	341	14
Total	353	18

**Distribution by Faculties.** *Arts*, 254; *sci.*, 117. Total: 371.

*Included in the figures above are:—*

Postgraduate students, 39

New admissions, 158.

Students from other countries, 19. (Country from which largest number came: U.S.A., 5).

**DEGREES AWARDED** (by Univ. of London) (1960-61) *Arts*: BA hons., 69, PhD, 1; *Sci*: BSc spec., 16. Total number of first degrees awarded, 79

[Information compiled as at 1/8/62]

### WYE COLLEGE

(THE COLLEGE OF ST. GREGORY AND ST. MARTIN AT WYE)

Founded 1893; previously established 1447

**Postal Address.** Wye, Ashford, Kent, England

**Cables and Telegrams.** College, Wye

**Station:** Ashford, 5 m., Wye,  $\frac{1}{2}$  m.

**Telephone:** Wye 401

**VISITOR—His Grace THE LORD ARCHBISHOP OF CANTERBURY**

**CHAIRMAN OF GOVERNING BODY—The Rt. Hon. LORD NORTHBOURNE**

**PRINCIPAL—D. SHILLUCK, CBE, MA Oxon.**

**VICE-PRINCIPAL AND LIBRARIAN—E. SITA SMYTH, BA Bristol, FLA**

**SECRETARY AND CLERK TO GOVERNING BODY—C W. A. GARLAND, BSc**

### TEACHING STAFF

(†=Part-Time)

#### Agriculture

Holmes, W., BSc(Agric) PhD Glas.

Bell, R. D., BSc

Duckworth, J. E., BSc(Agric) PhD Dwh.

Prof (Plg Husb. Res.) Lectr

Lectr. Jones, J. G. W., BSc Dwh., PhD Aberd. Lectr.

Milbourn, G. M., MSc <i>R'dg</i>	Lectr.
White, N., BSc <i>Durb.</i> , MSc	Asst. Lectr.
Haggart, R. J., BSc <i>Wales</i> , PhD	Asst. Lectr.
Peterson, J. D.	†Lectr.
Gregg, A. S., BSc <i>R'dg</i>	
(Seconded from Nat. Inst. of Agric Bot.)	
Keen, P. H., BSc(Agric)	Exper. Officer
	Farm Mgr
Statistics Section	
Wamble, R. H., MA <i>Oxon</i>	Lectr.

**Biological Sciences**

Selman, I. W., PhD DSc	Reader
Harrison, R. M., BSc	Lectr.
Schammer, Frieda C., MSc	Lectr.
Pegg, G. F., MSc <i>Nott.</i> , PhD	Lectr.
Dowrick, G. J., BSc PhD	Lectr.
Finch, C. A., BSc	Lectr.
Hill, T. A., BA <i>Cambs.</i>	Asst. Lectr.
Hooper, M. D., BSc PhD	Asst. Lectr.
Fresman, R. E., BSc <i>Hull</i>	Asst. Lectr.
Huscheliff, J. R., BA <i>Oxon</i>	Asst. Lectr.
Hull, R., BA <i>Cambs.</i>	Asst. Lectr.

**Agric. Res. Council Plant Morphogenesis and Nutrition Unit**

Richards, F. J., DSc <i>Bern.</i> , FRS	Dir.
Schwabe, W. W., DSc	Scientific Officer
Smith, T. A., BSc PhD <i>Bern.</i>	Scientific Officer

**Economics**

Wibberley, G. P., BSc(Agric) PhD <i>Wales</i> , MS <i>Ill.</i>	Reader
Folley, R. R. W., BSc BCom <i>Leeds</i>	Lectr.
Reid, I. G., DipAgric <i>Canb.</i> , BSc(Econ)	Sr. Lectr.
Sykes, J. D., BSc(Agr) <i>Leeds</i> , DipAgricEcon <i>Oxon</i>	Lectr.
Mackenzie, W., BSc <i>Glas.</i> , BLatt <i>Oxon</i> , MS <i>Conn.</i> , PhD <i>Hav.</i>	Lectr.
Allanson, G., BA <i>Cambs.</i> , MSc	Lectr.
Clayton, E. S., BSc(Econ) PhD	Lectr.
Best, R. H., BSc <i>Durb.</i> , MSc	Asst. Lectr.
Hardaker, J. B., BSc(Agric) <i>Nott.</i> , MSc	Asst. Lectr.
Gasson, Ruth, BSc DipAgricEcon <i>Oxon</i>	Res. Asst
Hooper, J. H., DipAgric	Admin Asst

**Hops**

Thompson, F. C., BSc MSc(AgricChem) <i>Durb.</i>	Hd of Dept.
Beard, F. H., DipHort	Sr. Exper. Officer
Neve, R. A., BSc <i>R'dg</i> , DipAgricSc <i>Canb.</i> , PhD	Sr. Scientific Officer
Coley-Smith, J. R., BSc PhD <i>Bern.</i>	Scientific Officer
Roberts, J. B., MSc <i>Sheff.</i>	Scientific Officer
Farrar, R. F.	Exper. Officer

**Horticulture**

Miles, H. W., MSc <i>Brist.</i> , PhD DSc <i>Manc.</i>	Prof.
Willinson, E. H., BSc <i>Bern.</i> , PhD <i>Brist.</i>	Sr. Lectr.
Jackson, A. A., BSc <i>Manc.</i>	Lectr.
Sykes, J. T., BSc BSc(Hort)	Lectr.
Page, Mary	Asst.
Lewis, R. E.	Mkt. Gdn. Mgr

**Physical Sciences**

Wain, R. L., MSc PhD <i>Sheff.</i> , DSc, FRIC, FRS	(Agric. Chem.) Prof.
Smith, Margaret S., BSc PhD	Sr. Lectr.
Flood, A. E., MA <i>Canb.</i> , PhD <i>Manc.</i>	Sr. Lectr.
Lambert, J. L. M., BSc <i>Abert.</i>	Lectr.
Ingram, Jeanne, BSc(Agric) <i>Edin.</i> , MSc	Lectr.
Rutherford, P. P., BA <i>Canb.</i> , PhD <i>Durb.</i>	Lectr.
Jenkins, N. K., BSc PhD <i>R'dg.</i>	Lectr.
Garraway, J. L., BSc	Asst. Lectr.
Weston, E. W., BSc	Asst. Lectr.
Jones, M. A., BSc	Asst. Lectr.
Whithead, D. C., BSc PhD <i>R'dg.</i>	Asst. Lectr.

**Agric. Res. Council Growth Substance & Fungicide Unit**

Fawcett, C. H., MSc PhD	Scientific Officer
Spencer, D. M., BSc <i>Wales</i> , PhD	Scientific Officer
Taylor, H. F., BSc(Hort)	Scientific Officer
Clarke, G. G., BSc PhD <i>Brist.</i>	Scientific Officer
Wright, S. T. C., BSc <i>R'dg.</i> , PhD <i>Brist.</i>	Scientific Officer
Rothwell, K., BSc <i>Hull</i> , PhD	Scientific Officer
Carter, G. A., BSc <i>R'dg.</i>	Scientific Officer

**Poultry Research**

Sykes, A. H., BSc, DipAgricSc <i>Canb.</i>	Lectr.
Huntan, P., BSc <i>Durb.</i> , MSc	Asst. Lectr.
Hodges, R. R. D. H., BSc <i>Exe.</i>	Asst. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Registrar, Appointments Sec & Curator of Museum: A. G. Page, MA *Oxon*. Warden of men students: T. A. Hill, BA *Cambs.* Warden

of women students: E. Sita Smyth, BA *Brist.*, FLA. Accounts Officer: A. Ireland. Domestic Bursar: Eleanor M. Knight.

**GENERAL INFORMATION**

Originally founded by cardinal archbishop John Kemp in 1467 as a secular foundation, the coll.

continued as a teaching instn. until 1893, as part of the original foundation consisted of a grammar

sch. In 1893 it was reorganized as an agric. coll. for men under the principalship of the late Sir A. D. Hall. In 1945 Swanley Hortic. Coll. (for women) was incorporated.

Closely associated with the coll. is the S.E. sub-provincial headquarters of the national agric. advisory service (N.A.A.S.), the central offices and labs. of which are located on the coll. estate.

The coll. is situated at the foot of the N. Downs in the village of Wye (pop. 2000), Kent, between Ashford and Canterbury and 60 miles S.E. of London.

**CONSTITUTION.** Sch. of Univ. of London since 1900, and now the dept. of agric. & hort. for the univ. Royal charter granted in 1948. Governing body of 32 members, incl. reps. of univ., Ministry of Agric., coll. staff, S.E. counties, Oxford and Cambridge univs., old students' assocns., etc.

**INCOME (1960-61)** Approx. £300,000 (univ. 53 per cent.; govt. depts. 24 per cent.; fees, 15 per cent.; other sources, 8 per cent.)

**COLLEGE PREMISES.** The bldgs. of the original 15th-cent. foundation remain in use, with considerably extended teaching and residential accomod. added mainly in the present cent. In addn. there is a mod. hall of residence at Withersdane, about a quarter of a mil. from the coll. The estate comprises approx. 850 acres, incl. farm, hort. & hop res., etc.

**LIBRARY.** Approx. 12,000 vols.

**LABORATORIES.** Bot., chem., geol., hop res., hort., pathol., phys., zool. Museum of agric. implements (at Court Lodge Farm, Brook, Wye).

**ADMISSION.** See p. 1066 and Appendix III. The requirements of the fac. of sci. must be satisfied.

**FIRST DEGREES (of Univ. of London).** The coll. provides courses for the following degrees of the Univ. of London: BSc(Agric), BSc(Hortic), BSc(Agric) with hon., BSc(AgricSci) hon., 3 yrs. Hons. degree courses require higher pre-

entry standard in chem. and biol. scs. and proceed to greater depth in pure sci. subs.

**HIGHER DEGREES (of Univ. of London).** MSc, 2 yrs. from BSc, in agric., hort., and allied sci. subjects by res., or exam and dissertation; MSc in poultry sci., 2 yrs. from BSc(Agric), zool., or vet. sci. by exam. PhD, 3 yrs. from BSc by res.; candidates normally required to register first for MSc.

**DIPLOMA (of Univ. of London)** 1 yr. postgrad. farm bus. admin.

**RESEARCH.** Facilities for postgrad. res. in agric., hort., agric. chem., bot., zool., geol., agric. econ., hops.

**FEES PER SESSION.** Tuition—£70 Student union sub. (compulsory), £4.

**ACADEMIC YEAR.** Oct–June. 3 terms of 10 weeks each.

**ADULT EDUCATION.** Lectures given to agric., hort. and sci. socs., farmers' clubs, etc.

**COLLEGE APPOINTMENTS.** Bureau assists in placing qualified students in suitable employment.

**GRADUATES' ASSOCIATION.** Agricul. club and Swanley guild (men and women).

**STUDENTS' RESIDENCES.** Main coll. bldgs. and Withersdane Hall for 145 men and 50 women; requires residence for 12 postgrad. men. Fees, £175 per session (30 wks.) for full bd. residence.

**STUDENT UNION.** All students belong to the union, which has an elected pres., vice-pres., and council.

**PUBLICATIONS.** *Prospectus*; *Annual Report*, various other publs., esp. on econ. and hops, reprints from scientific journals and other publs.; student magazine (3s. per term).

**OTHER FEATURES.** Agric. Res. Council growth substance & fungicide unit and plant morphogenesis unit housed at the coll.

## THE YEAR 1961

**RESIGNATIONS.** G. P. Askew (phys. sci.), appd. lectr. in pedol., Durk.; H. Darling (hop res.), appd. dean of agric. and dir. of Sarnau res. station, Ahmadu Bello; D. A. Ede (biol. sci.), appd. to poultry res. sta., Edin.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	196	5
Women	37	—
Total	233	5

**Distribution by Faculties.** Sci., 238 (incl. agric., 173; hort., 57; agric. econ., 8).

*Included in the figures above are —*

Postgraduate students, 33

New admissions, 92.

Students from other countries, 20.

**DEGREES AWARDED (by Univ. of London)**  
(1960-61) BSc(Agric) hon., 15; BSc(Agric), 30; BSc(Hort), 18; MSc, 51; PhD, 4. Total number of first degrees awarded, 63.

# THEOLOGICAL SCHOOLS OF THE UNIVERSITY

[Information compiled as at August 1962]

## APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated thus :

KING'S COLLEGE, THEOLOGICAL DEPT. (KT)

NEW COLLEGE, LONDON (N)

RICHMOND COLLEGE (R)

Theology			Sanco, Rev U. E., MTh DD	Reader (KT)
Miscall, Rev E. L., DD Oxon.	Prof. (KT)		Ward, A. M., MA Camb.	Lectr. (R)
Nuttall, Rev. G. F., MA DD Oxon.	Lectr (N)			
Roberts, Rev. H., MA Wales, PhD Camb., DD		Lectr. (R)		

## GENERAL INFORMATION

\*KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, London, W C 2 (tel. Temple Bar 5454) Dean.—Rev Canon S H Evans, MA BD Durh Sec.—I P. Shaw, MA Founded 1846 (see p. 1111). Complete courses for all theol degrees of the univ. Fees: composition fee undergraduate course, £70 per session, postgraduate tuition fees only, MTh or PhD, £50 p.a. Hostel for students, King's Coll Theological Hostel, Vincent Sq., SW 1, fee for residents, £160 per session. Full-time students, 307; internal students of the univ., 132; pt.-time students, 28. (Degrees obtained, 1960-61: BD, 27 Univ. dipls, and certs., 5.) The coll. grants the AKC dipl in theol to Anglican students who satisfactorily complete the 3-yr. course in the Strand and a 4th yr. in the dept.'s coll. at St. Boniface College, Warrminster, Wilts. (tel. : 3122); warden: Rev E. J. Townroe, MA Oxon.

\*NEW COLLEGE, LONDON (Congrega-

tional), 527 Finchley Road, London, N.W.3 (tel. : Hampstead 3719). Principal—Rev W. J. F. Huxtable, MA. Sec.—Miss M. A. Canning. New College, London, the origin of which goes back to 1673, is a theol. coll. (a div. sch. of the Univ. of London), primarily for the training of men and women for the Congregational ministry. Internal students of the univ., 30. Fees (for students not on the foundation): seasonal composition fee of the univ., £50; or 9 gs for each class. (Degrees obtained, 1960-61: BD, 2)

\*RICHMOND COLLEGE (Methodist), Richmond, Surrey (tel. : Richmond 1856). Principal—Rev. H. Roberts, MA Wales, PhD Camb., DD. Opened 1843. Students are, normally, candidates who have been accepted for ministry of the Methodist church, but other univ. students may be admitted. Residential accomm. for about 60. Internal students of the univ., 60. Fees. £250 per session for residence and tuition. (Degrees obtained, 1960-61: BD, 4).

\* Not in receipt of U.G.C. grants

**ADMISSION.** See p 1066 and Appendix III. Students admitted either to 1st MB classes (at Northern Polytechnic) or direct to 2nd MB classes.

**FIRST DEGREE.** For students working for London MB BS, a 4½-yr. course is provided at the sch following 1-yr pre-med. course for 1st MB exam which is provided at Northern Polytechnic with supplementary lectures at the sch. The 3-yr. clin. course at the sch. may also be taken by students who have undertaken their pre-clin. studies at Cambridge or Oxford and are working for Cambridge MB BCh or Oxford BM BCh. Courses also provided for London BSc (spec.) in anat., and in physiol.

**HIGHER DEGREES.** Facilities at sch for study for London MD, MS, MSc, PhD, DSc, Cambridge MD, MCh; Oxford DM, MCh.

**OTHER QUALIFICATIONS.** LRCP, MRCS ('conjoint qualif.' granted by Royal Colls. of Physicians and Surgeons); in this sch., exams. for LRCP, MRCS may be taken only by students intending to take univ. degrees in med.

**FEES.** Annual composition fee, 80 gns (incl union membership).

**SCHOLARSHIPS.** Numerous scholps, exhibitions and prizes awarded annually.

**STUDENTS' CLUB.** Provides facilities for rugby, soccer, cricket, hockey, tennis, golf, judo, mountaineering, netball, swimming, sailing and athletics, and includes the medical, dramatic, musical, folk-dancing and debating societies.

**PUBLICATIONS.** *Prospectus* Students. *Charter Cross Hospital Gazette* (once a term).

## THE YEAR 1961

**PRINCIPAL BENEFACCTIONS.** Wellcome Foundation, £10,000 for animal house  
(Total value of all benefactions received, £14,000)

**RETIREMENTS.** J. L. Hopkins (anaesthesia).

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men . . .	195	—
Women . . .	52	—
Total . . .	247	—

*Included in the figures above are:—*

Postgraduate students, nil

New admissions, 45

Students from other countries, 8 (Country from which largest number came: Australia, 6)

**DEGREES AWARDED (1960-61).** MB BS Lond., 29; MD, 2

**DIPLOMAS AWARDED (1960-61).** LRCP, MRCS, 5; FRCS, 4; MRCP, 7; MRCOG, 1; FFARCS, 1; DRCOG, 12; DA, 3; DCH, 1; DPM, 1; DTM&H, 3

[Information compiled as at 1/8/62]

## GUY'S HOSPITAL MEDICAL SCHOOL

Founded 1769

**Postal Address:** St. Thomas's Street, London Bridge, London, S.E.1, England

**Telephone:** Hop 7600

**DEAN—E. R. BOLAND, CBE, MD, FRCP**

**SUB-DEAN (Medical School)—J. C. HOGGTON, MD, FRCP**

**SUB-DEAN (Dental School)—F. S. WARNER, FDSRCS**

**SECRETARY—W. F. COOK**

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time Clin Teacher]

**Anæsthetics**

McConnell, W S, MB BS, FFARCS (†)  
 Helliwell, P. J., MB ChB Edin., FFARCS (†)  
 Hutton, A. M., FFARCS (†)  
 Hall, J. M., MB BS, FFARCS

Tulley, W J, PhD BDS, FDSRCS

(Orthodontics) Reader  
Sr. Lectr.

Vale, W A, BDS

**Anatomy**

Warwick, R., BSc PhD MD MAns Prof.  
 Joseph, J., MD Glas Reader  
 Thomas, G A, PhD BSc Sr. Lectr  
 Williams, P L., MA MB BChir Camb. Sr. Lectr.

**Dermatology**

Forman, L., MD, FRCP (†)  
 Moyanhan, E J, FRCP (†)

**Endocrinology**

Bishop, P M, F., DM Orew., FRCP (†)

**Experimental Medicine**

Butterfield, J W H., OBE, MD, FRCP Prof.  
 Traunce, J. R., MD (Therm) Reader

**Forensic Medicine**

Simpson, C K., MD †Prof.

**Medicine**

Boland, E R., CBE, MD, FRCP (†)  
 Mann, W N., MD, FRCP (†)  
 Hardwick, C., MD Camb., FRCP (†)  
 Baker, C G., OBE, MD, FRCP (†)  
 Kauntze, R., MD Camb., FRCP (†)  
 Maclean, K S., MD Camb., FRCP (†)  
 Houston, J C., MD, FRCP (†)

**Mental Diseases**

Stafford-Clark, D., MD, FRCP (†)

**Neurology**

McArdle, M. J. F., FRCP (†)

**Obstetrics and Gynaecology**

Gibberd, G. F., MS, FRCS, FRCOG (†)  
 Blukley, J. B., MB BS, FRCS, FRCOG (†)  
 Lewis, T. L. T., MB BChir Camb., FRCS, FRCOG (†)  
 Teekinson, J S., MB ChB Birm., FRCS (†)

**Ophthalmology**

Law, F. W., MA MD Camb., FRCS (†)  
 Cook, C. A. G., MC, GM, FRCS (†)

**Orthopaedics**

Stann, T. T., MB BS, FRCS (†)  
 Batchelor, J. S., FRCS (†)

**Oto-Rhino-Laryngology**

Cann, R. J., MS, FRCS (†)  
 Reading, P V., MS, FRCS (†)  
 Salmon, L. F. W., MBE, MS, FRCS (†)

**Pædiatric Research**

Polans, P E., MD Pisa, FRCP Prince Philip Prof.

**Bacteriology**

Knox, R., MD, FRCP Prof.  
 Gorrill, R H., MD Reader

**Biochemistry**

Haslewood, G. A. D., DSc PhD Prof.  
 Davison, A. N., PhD BSc Reader

**Biology**

Paxon, G E H., MA Camb., MSc Wales Prof.  
 Baxter, E. W., PhD BSc Sr. Lectr

**Cardiology**

Baker, C. G., OBE, MD, FRCP (†)  
 Kauntze, R., MD Camb., FRCP (†)  
 Deuchar, D. C., MD (†)

**Chemistry**

Gent, W. L. G., PhD BSc Reader  
 Brain, F. H., MA PhD BSc Sr. Lectr.

**Children's Diseases**

Evans, P. R., MD MSc Manc., FRCP (†)  
 MacKeith, R. C., MA DM Orew., FRCP (†)

**Dental Medicine**

Rushton, M. A., CBE, MA MD Camb., FDSRCS Prof.

**Dental Prosthetics**

Neill, D J., DFC, FDSRCS Sr. Lectr

**Dental Radiology**

Ingram, F L (†)

**Dental Surgery**

Warner, F. S., FDSRCS (†)  
 Herbert, W E., FDSRCS Prof.  
 Mansie, J. W., FDSRCS (†)  
 Thompson, A. R. F., BDS, FDSRCS (†)  
 Macdonald, D. M., FRFPGlas, FRCSed (†)  
 Pringle, K. E., FDSRCS (Orthodontics) (†)  
 Rox, R E., FDSRCS (Orthodontics) (†)  
 Enslie, R. D., BDS, FDSRCS (Preventive Dent) Reader

SECRETARY—W. F. GUNN, LLB, FCIS

LIBRARIAN—LESLIE SARGENT, FLA

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

<b>Anæsthetics</b>			
Hall, V. F., CVO, FFARCS	†Lectr.	Hugh-Jones, P., MA MD Camb., FRCP	†Lectr.
Cartwright, F. F., FFARCS	†Lectr.	Freedman, B., MB BS	†Assoc. Teacher
Gidley, A. H., MB BS, FFARCS	†Lectr.	<b>Mental Diseases</b>	
Mason, S. A., MB BS, FFARCS	†Lectr.	Loddell, D. W., MB BS DPM, MRCP	†Lectr.
		Wheelan, Lorna, MD Aberd., DPM	†Lectr.
		Freudenberg, R. K., MD <i>Frank.</i>	†Lectr.
<b>Dental Surgery</b>			
Cooker, R., MB ChB <i>Monst.</i> , FDSRCS	Prof.	<b>Obstetrics and Gynaecology</b>	
Liddelow, K. P., FDSRCS	Prof.	Peel, Sir John, KCVO, MA BM	
Moore, A. S.	†Lectr.	BCh Oaes., FRCS, FRCOG	†Dir.
Wade, W. N. L.	†Lectr.	Clayton, S. G., MD MS, FRCS, FRCOG	
Clarke, R. E., FDSRCSed	†Lectr.		
Collyer, W. F., FDSRCS	Sr. Lectr.	Feroze, R. M., MD, FRCS	†Lectr.
Leighton, B. C., MDS	Sr. Lectr.	Burt, Lady Joyce M., MB BS	†Assoc. Teacher
Kettle, M. A., FDSRCS	†Lectr.	<b>Ophthalmology</b>	
Mayhew, R. A. J., BDS, FDSRCS	Sr. Lectr.	Savin, L. H., MD MS, FRCS	†Lectr.
Rosenfield, E., MDS	Sr. Lectr.	Lyle, T. K., CBE, MA MD MChir Camb., FRCS	†Lectr.
Halder, A. R.	Sr. Lectr.	Cock, R. P., FRCS	†Lectr.
Gimson, A. P.	Sr. Lectr.	<b>Oto-Rhino-Laryngology</b>	
Bennett, D. T., FDSRCS	Sr. Lectr.	Daggett, W. L., MA MB BChir Camb., FRCS	†Lectr.
Schreiber, C. K.	Lectr.	Cawthorne, T., FRCS	†Lectr.
Garrett, J. R., BSc MB BS.	Lectr.	Lewis, R. S., MA MB BChir Camb., FRCS	†Lectr.
a <i>Dentura.</i>		Mawson, S. R., MB BChir Camb., FRCS	†Lectr.
<b>Dermatology</b>			
Williams, D. L., MB BS, FRCP	†Lectr.	<b>Pathology</b>	
Marten, R. H., BM BCh Oaes., MRCP	†Lectr.	Magnus, H. A., MD, FRCP	Prof.
<b>Diseases of Children</b>		Gray, C. H., MD DSc, FRIC, FRCP	Prof.
Sheldon, Sir Wilfrid, KCVO, MD, FRCP	†Dir.	Cunliffe, A. C., MA MD Camb.	Prof.
Wilmer, Mary J., MD, FRCP	†Tutor	Davidson, W. M., MD <i>Aberd.</i>	Prof.
Stroud, C. E., BSc MB BCh <i>Wales</i>	†Lectr.	Cardell, B. S., MD	Reader
<b>Forensic Medicine</b>		Smith, M. J. H., MPharm <i>Wales</i> , PhD, FRIC	Reader
Cagwell, A. P. L., MB BS	†Lectr.	Jackson, F. L., MB BS DipBact	Sr. Lectr.
Rushon, D. G., MB BS	†Lectr.	Stirling, G. A., MD <i>Durk.</i>	Sr. Lectr.
<b>Industrial Medicine</b>		Nicholson, D. C., PhD <i>Lent.</i>	Lectr.
.....		Flete, P. T., MB BS	Lectr.
<b>Medical Physics</b>		Raveston, J. R., MB BS	Lectr.
Osborn, S. B., BSc PhD	Lectr.	Mason, M. K., MB BS	Lectr.
<b>Medicine</b>		Allott, E. N., MA DM <i>Oxon.</i> , FRCP, FRIC	Assoc. Teacher
Hayle, J. C., MD, FRCP	†Dir.	Too, D. E. H., MB BS	Cowburn Fellow
Anderson, J., MA MB BSc <i>Durk.</i>	Reader	a <i>Dentura.</i>	
Livingstone, J. L., MD, FRCP	†Lectr.	<b>Physical Medicine</b>	
Critchley, M., CBE, MD <i>Brist.</i> , FRCP	†Lectr.	Cooksey, F. S., OBE, MD, FRCP	†Lectr.
Nevin, S., MD <i>Belf.</i> , BSc, FRCP	†Lectr.	<b>Public Health</b>	
Pearson, R. S. B., DM <i>Oxon.</i> , FRCP	†Lectr.	Standring, T., MD	†Lectr.
Oakley, W. G., MA MD Camb., FRCP	†Lectr.		
Oram, S., MD, FRCP	†Lectr.		
Pyke, D. A., MD Camb., MRCP	†Lectr.		

**Radiology**

Blewett, J. MD *M&B*, FFR †Lectr.  
 Rackow, A. M., BSc MB BS DMRE †Lectr.

**Radiotherapy**

Shawcross, E. W. H., MA Camb., DMRE  
 Dalley, Vera M., MB BS DMRT †Lectr.

**Surgery**

Edwards, H. C., CBE, MS, FRCS †Dir.  
 Murray, J. G., MB ChB *Aberd.*, FRCSed  
 Yates-Bell, J. G., MB BS, FRCS †Lectr.  
 Wood, H. L. C., MS, FRCS †Lectr.  
 Kendall, A. W., MS, FRCS †Lectr.  
 Muir, E. G., MS, FRCS †Lectr.

Harist, A. J., MS, FRCS †Lectr.  
 Rees, H., MA MCh Oxon., FRCS †Lectr.  
 Cleland, W. P., MB BS *Adel.*, FRCS †Lectr.  
 Moore, F. T., OBE, FRCS †Lectr.  
 Catterall, R. C. F., MChir Camb., FRCS †Lectr.  
 Taylor, S. F., MA BM MCh Oxon., FRCS †Tutor  
 Cotton, L. T., MCh Oxon., FRCS †Lectr.  
 McCrea, A. N., MB BChir Camb., FRCS †Lectr.  
 Tsapogas, M. J. C., MD *Athens* †Assoc. Teacher  
 Pfizer Fellow

**Tropical Medicine**

Walters, J. H., MD Camb., FRCP †Lectr.

**Venerical Diseases**

Lydon, F. L., MB BCh BAO *N.U.I.* †Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Student Medical Officer: D. A. Pyke, MD  
 Camb., MRCP. Consultant Statistician: M. P.  
 Curwen, MA Camb. Radiation Protection  
 Officer: S. B. Osborn, BSc PhD. Accountant:  
 C. H. Meredith. Asst. Sec.: D. J. Britten,  
 BSc(Econ)

**GENERAL INFORMATION**

King's Coll Hospital Med Sch. was founded in 1831 and was admitted as a sch. of the univ. in the fac. of med. in 1909

The new bldgs. of the med sch were opened in 1933, and the new dent sch in 1940. A further extension to the med sch was completed in 1938. The present bldgs. incl. a library (7000 vols.) and reading-room and a pathol. museum. The students' hostel is within 5 minutes' walk of the hosp and med sch, and the athletic ground is within 10 minutes' walk. There is a 2nd athletic ground near by

TEACHING HOSPITALS. King's Coll. H.; Belgrave H., Dulwich H.

ADMISSION. See p 1066 and Appendix III. Students admitted only direct to 2nd MB classes (at King's Coll., Lond.)

FIRST DEGREES. The sch provides clin. trg only (3-yr. course) for students working for London MB BS or (for those who have undertaken their pre-clin. studies at Cambridge or Oxford) Cambridge MB BChir or Oxford BM BCh. For students working for London MB BS, pre-clin. courses for 2nd MB is provided at King's Coll., Lond. The sch. also provides clin. trg. (3 yrs. + term) for London BDS (course for and BDS provided at King's Coll., Lond.) No course provided at the sch. or at King's Coll. for 1st MB

HIGHER DEGREES. Facilities at sch. for study

for London MD, Cambridge MD, Oxford DM, PhD

OTHER QUALIFICATIONS. LRCP, MRCS ('conjoint qualif.' granted by Royal Colls. of Physicians and Surgeons), L.D.S.RCS (3-yr. clin. course), in this sch. exams. for these qualifs. may be taken only by students intending to take univ. degrees in med. or dent.

RESEARCH. Facilities in med., surg and all branches of pathol. Sp. M.R.C. res. inst. in deafness

ALLIANCE. Registrar exchange scheme with Univ. of Toronto.

FEES. Annual composition fee (incl. union membership) med., £90, and dent., £78

SCHOLARSHIPS. Scholarships to the value of £2000 are available for award annually. 23 approved intern appts. are made every 6 mos.

POSTGRADUATE AWARDS open to grads. of other univs. see p 910.

STUDENT HEALTH SERVICE. Instituted 1928; a pt-time med. officer, who is also available for consultation, is in charge

PUBLICATIONS. Official: Med. and Dent. Sch. Prospectus, Annual Report. Student: King's Coll. Hospital Gazette (3 times p.a.). King's and Some King's Men, by W. Lyle (O.U.P., 1935, 25s.; Addendum, 1950, 30s.).



## THE YEAR 1961

DEATHS J James (electr. in dent. surg., 1923-58)

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	216	—
Women	64	—
Total	280	—

Distribution by Faculties. Dent., 92; med., 168; sci., 20

Included in the figures above are:—

Postgraduate students, 32  
New admissions, 78 (44 med., 30 dent., 4 sci.).  
Students from other countries, 15. (Countries from which largest numbers came: Nigeria, 2, S. Africa, 2)

DEGREES AWARDED (1960-61). Dent BDS Lond., 10; MDS Lond., 1. Med MB BS Lond., 41; MB BChir Camb., 7; PhD, 1  
Total number of first degrees awarded, 58.

DIPLOMAS, ETC., AWARDED (1960-61). LDSRCS, 21; LRCP, MRCS, 42; LMSSA, 1; FRCS, 2; FFARCS, 1

[Information compiled as at 1/8/62]

## LONDON HOSPITAL MEDICAL COLLEGE

Founded 1785; incorporated as a constituent School of the University of London in 1900

Postal Address: Turner Street, London, E.1, England

Telephones: Bishopsgate 0644-8

CHAIRMAN—R. M. M. PRYOR, MBE

DEAN—H. B. MAY, MD Camb., FRCP

MEDICAL SUB-DEAN—J. V. CRAWFORD, MBE, MB BS, FRCS

DENTAL SUB-DEAN—N. L. WARD, DDS Chas., LDS Lva.

SECRETARY—H. P. LARSEN, BA

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

<b>Anaesthetics</b>		<b>Biochemistry</b>	
Brown, A. I. P., FFARCS	(†)	Warren, F. L., MA Oxon., PhD DSc,	Prof.
Fox, G. P., MA Camb., FFARCS	(†)	FRIC	
<b>Anatomy</b>		Neil, M. W., BSc PhD, FRIC	
Harrison, R. J., DSc Glas., MA MD Camb.	Prof. Reader	<b>Biochemistry, Experimental</b>	
Johnson, F. R., MD		Morris, C. J. O' R., PhD MSc, FRIC	Prof.
<b>Bacteriology</b>		<b>Dental Anatomy</b>	
Berwell, C. F., MA MD Camb.	Goldsmith Company's Prof. Reader	Fearnhead, R. W., MDS	Reader
White, R. G., MA DM Oxon.		<b>Dental Pathology</b>	
		Miles, A. E. W., FDSRCS	Prof.

<b>Dental Prosthetics</b>		<b>Orthopaedics</b>	
Fish, S F., MDS, FDSRCS	Asst. Dir.	Clarke, H. Osmond, CBE, MB BCh BAO Dub., FRCS, FRCSI	(†)
<b>Dental Surgery</b>		Lew, W A., OBE, TD, MD Camb., FRCS	(†)
Allen, S G., FDSRCS	(†)	Vaughan Jackson, O J., BM BCh Oxon., FRCS	(†)
Batesford, J. S., BDS NZ, DOrth	(†)	Watson-Jones, Sir R. W., BSc MChOrth Law, Hon. FRCS, Hon. FRACS, Hon. FACS, FRCSed	(†)
Hankey, G T., OBE, TD, FDSRCS	(†)	<b>Oto-Rhino-Laryngology</b>	
Holloway, P. J., PhD BDS	(†)	Bowen-Davies, A., MB BChir Camb., FRCS	(†)
Kewer, W R., FDSRCS	(†)	Keogh, C A., MB BCh BAO Belf., FRCS	(†)
Seward, G R., MDS MB BS, FDSRCS	(Oral S.) Reader	Landahl, J W S. H., MA MChir Camb., FRCS	(†)
Slack, G L., OBE, TD, DDS Law, FDSRCS	Prof.	<b>Pathology</b>	
Ward, N L., DDS Chas., LDS Law, Asst. Dir. of Conservative Dent	(†)	May, H. B., MD Camb., FRCP	
Wilson, H E., LDS Belf.	(†)	Perrin, J., MD Camb., MRCP	
<b>Dermatology</b>		Salaman, M. H., MA MD DipBact	(†)
Russell, B F., MD, FRCP	(†)	<b>Pharmacology</b>	
<b>Diseases of Children</b>		Joyce, C. R. B., MA BSc PhD	Sr. Lectr. Prof.
Dobbs, R. H., MD Camb., FRCP	(†)	Wentherill, M., MA DM Oxon.	
<b>Forensic Medicine</b>		<b>Physiol. Medicine</b>	
Camps, F. E., MD	Reader	Mason, R. M., MA Oxon., DM, FRCP	(†)
<b>Medicine</b>		Tegner, W. S., MA BM BCh Oxon., FRCP	(†)
Bonford, R. R., DM Oxon., FRCP	(†)	<b>Physiology</b>	
Bragden, W. W., MD, FRCP	(†)	Cross, K. W., PhD MB BS, MRCP	Prof
Ellis, J. R., MBE, MD Camb., FRCP	(†)	Roberts, K. E., DPhil Oxon., MA MB BS	
Evans, Lord, GCVO, MD, FRCP	(†)	<b>Plastic Surgery</b>	
Floyer, M A., MA MD Camb., MRCP	(†)	Heanley, C. L., TD, MB BChir Camb., FRCS	(†)
Henson, R. A., MD, FRCP	(†)	<b>Radiology</b>	
Hunter, D., CBE, MD, FRCP	(†)	Murray, R. S., MD Belf., DMR, FRCSI	(†)
Ledingham, J. M., MD	Reader	Rae, L. J., MA MB BChir DMRE Camb.	(†)
McDonald, E. L., MA MD Camb., FRCP	(†)	<b>Radiotherapy</b>	
Mason, A. S., MD Camb., MRCP	(†)	Shanks, W., MSc MB BCh BAO Belf., FFR	(†)
Perry, K. M. A., MD, FRCP	(†)	<b>Social and Preventive Medicine</b>	
Rushby, N. L., DM Oxon., FRCP	(†)	Morris, J. N., MA Glas., DSc DPH, FRCP	Prof.
Wilson, C., MA DM Oxon., FRCP	Prof.	<b>Surgery</b>	
Wright, J. T., DM Oxon., MRCP	(†)	Butler, E. C., MB BS, FRCS	(†)
<b>Mental Diseases</b>		Dix, V. W., MA, FRCS	Prof.
Wilson, H L., MD Camb., FRCP	(†)	Moore, A. M. A., FRCS	(†)
<b>Morbid Anatomy</b>		Richardson, J. E., MS, FRCS	(†)
Domach, I., MD	Prof.	Ruthe, H. D., MA Glas., ChM Edin., FRCSed	Reader
Landells, J. W., MB BChir Camb.	Reader	Taylor, H., MA MD MChir Camb., FRCS	(†)
Weinbren, H. K., MD BSc Lond	(Exper. Pathol.) Reader	Trevisser, G. C., MB BS, FRCS	(†)
<b>Neuro-Surgery</b>		<b>Thoracic Surgery</b>	
Northfield, D. W. C., MS, FRCS	(†)	Thompson, V. C., MB BS, FRCS	(†)
Crawford, J. V., MBE, MB BS, FRCS	(†)	Flavell, G., FRCS	(†)
<b>Obstetrics and Gynaecology</b>		<b>Venereal Diseases</b>	
Brews, R. A., MD MS, FRCS, FRCOG		King, A. J., MB BS, FRCS	
Easton, A. L. T., MD Camb., FRCS	(†)		
Fernald, R. C., FRCS, FRCOG			
<b>Ophthalmology</b>			
Lister, A., MB BChir Camb., FRCS	(†)		

## ADMINISTRATIVE AND OTHER STAFF

Radiation Protection Officer: L. A. W. Kemp, BSc PhD, FIP

## GENERAL INFORMATION

The hosp. and annexe at Brentwood provide 884 beds.

**LIBRARY AND MUSEUM.** Library (11,000 vols.) incl. Thomson Yates res. library, containing chief British and foreign periodicals for anat., physiol. and pathol. New addns. to museum incl. section on forensic med.

**LABORATORIES.** Teaching and res. labs. are provided for (1) bacteriol., (2) pathol. & morbid anat. in the Bernhard Baron Inst. of Pathol., (3) anat., (4) pharmacol., (5) physiol. & histol., (6) org. chem. & biochem., (7) exper. biochem., (8) forensic med., (9) med. & surg. res. labs., (10) dent. pathol., (11) conservative & prosthetic dent.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted only direct to and MB classes.

**FIRST DEGREE.** For students working for London MB BS, a 4½-yr. course is provided at the coll. following 1-yr. pre-med. course for 1st MB exam. which is provided at a sch. of the Univ. of London or at a polytechnic. The 3-yr. cin. course at the coll. may also be taken by students who have undertaken their pre-cin. studies at Cambridge or Oxford and are working for Cambridge MB BChir or Oxford BM BCh. The coll. also provides trig. (4½-yr. course) for London

BDS, following 1-yr. pre-med. course for 1st MB exam. which is provided at a sch. of the univ. or at a polytechnic.

**HIGHER DEGREES.** London MD, MS, MDS.

**OTHER QUALIFICATIONS.** LRCP, MRCS ('con-joint qualif.' granted by Royal Coll. of Physicians and Surgeons), LDSRCS, in this coll., exams. for these qualifs. may be taken only by students intending to take univ. degrees in med. or dent. 3-month full- or pt.-time advanced revision course suitable for MRCP; FRCS (6-wk. pt.-time advanced revision course); dipl. in med. jurispr. (pt. I: 2-wk. full-time course) granted by Soc. of Apothecaries of London.

**Fees.** Annual composition fee (incl. union membership): med. and dent., £87.

**SCHOLARSHIPS.** There are 48 scholps. and prizes.

**RESIDENCE.** Hostel for 133 men and 16 women students adjacent to coll. (tel. Bishopsgate 7017). Charges: £3:7s. to £4 per week.

**PUBLICATIONS.** *Prospectus and Calendar* (annual), *Directory of former students* (every 3 yrs.); *The London Hospital: The First Hundred Years* (Pitman Med. Publishing Co. Ltd.) 1962; (students) *L.H. Gazette*.

## THE YEAR 1961

**RETIREMENTS.** A. G. Allen (dent. prosthetics).

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	477	3
Women	76	—
Total	553	3

**Distribution by Faculties.** Dent., 136; med., 413, res., 4.

*Included in the figures above are:—*

Postgraduate students, 4.

New admissions, 116

Students from other countries, 31

**DEGREES AWARDED (1960-61)** BDS Lond., 17; MDS Lond., 1; MB BS Lond., 66; BSc Lond., 4; MSc Lond., 1; MD Lond., 3; PhD Lond., 1; MD Camb., 1; MChir Camb., 1; MB BChir Camb., 23; MCh Oxon., 1; BM BCh Oxon., 4.

**OTHER QUALIFICATIONS AWARDED (1960-61).** LDS, 24; LRCP, MRCS, 42; LMSSA, 1.

[Information completed as at 1/8/52]

## MIDDLESEX HOSPITAL MEDICAL SCHOOL

Founded 1833

Postal Address: Mortimer St., London, W 1, England

Cable and Telegrams: Middlesex Hospital Medical School, London, W.1

Telephone: Museum 8333

CHAIRMAN—Colonel The Lord Astor of Haver

DEAN—Professor Sir BRIAN WINDEYER, MB BS *Synd*, DSc *Br.Col.*, DMRE *Camb.*, FRCP, FRCS, FRCSEd, FRACS, FFR

SECRETARY—EILEEN M. WALTON

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anæsthetics		Diseases of Children	
Dennick, O. P., MB BS	(†)	Hart, E. W., MBE, MA MD <i>Camb.</i> , DCH	(†)
Sellick, B. A., MB BS			
Anatomy		Diseases of Nervous System	
Walls, E. W., BSc MD <i>Glas</i>	Prof	Kremer, M., MD BSc, FRCP	(†)
Silver, P. H. S., PhD MB BS	Reader	Galliat, R. W., MC, MA DM <i>Oxon.</i> , MRCP	(†)
Bearn, A. R., MB BS			
Bacteriology		Hæmatology	
Thompson, R. E. M., MB BS	Reader	Stewart, J. W., MB BS	Reader
Biochemistry		Medicine	
Dodds, Sir Charles, MVO, DSc PhD MD, FRCP, FRIC, FRS	Prof	Bedford, D. E., MD, FRCP	(†)
Dickens, F., MA <i>Camb.</i> , DIC, DSc PhD, FRIC, FRS	Prof.	Mernott, H. L., CBE, MD, FRCP	(†)
Lawson, W., MSc <i>Lea.</i> , FRIC	Reader	Wilcox, A., MA MD <i>Camb.</i> , FRCP	(†)
Kellie, A. E., PhD	Sr. Lectr.	Hadley, G. D., MA MD <i>Camb.</i> , FRCP	(†)
Jepson, J. B., MA <i>Camb.</i> , BSc DPhil <i>Oxon.</i> , FRIC	Sr. Lectr.	Kekwick, A., MA MB BChir <i>Camb.</i> , FRCP	Prof
		Scadding, F. H., MD, FRCP	(†)
		Nabarro, J. D. N., MD	(†)
Biology		Mental Diseases	
Newth, D. R., PhD	Prof.	Hobson, J. A., BSc MD, DPM	(†)
		Hall, J. D. N., MB BS DPM, FRCP	Prof.
Cardiology		Morbid Anatomy	
Somerville, W., MD <i>N.U.I.</i> , MRCP	(†)	Thackray, A. C., MD <i>Camb.</i>	Reader
Chemistry		Neuro-Surgery	
O'Sullivan, D. G., DIC, BSc PhD	Lectr.	Logue, V., FRCS	(†)
Holt, S. J., BSc PhD, FRIC	Lectr.		
Dermatology		Obstetrics and Gynaecology	
Bettley, F. R., TD, MD, FRCP	(†)	Roques, F. W., CBE, MA MD MChir <i>Camb.</i> , FRCS, FRCOG	(†)
		Winterton, W. R., MA MB BChir <i>Camb.</i> , FRCS	(†)

U.K.—ENGLAND (LONDON)

Jackson, I. M., BA MB BChir Camb, FRCS	(†)	<b>Radiodiagnosis</b> Golding, F. C., MB ChM Syd., DMRE Camb, FRCP, FFR	(†)
<b>Ophthalmology</b> Goldsmith, A. J. B., MB BS, FRCS	(†)	<b>Radiotherapy</b> Windeyer, Sir Brian, MB BS Syd, DSc Dy Col., DMRE Camb, FRCP, FRCS, FRCSEd, FRACS, FFR	
<b>Orthopaedics</b> Newman, P. H., DSO, MC, FRCS	(†)	Prof., Dean of Med Sch. Snelling, Margaret D., MB BS, MRCP, FFR, FRCS	(†)
<b>Oto-Rhino-Laryngology</b> Mockhouse, J. P., MB BS, FRCS Ranger, D., MB BS, FRCS	(†) (†)	<b>Surgery</b> Patey, D. H., MB MS, FRCS Handley, R. S., OBE, MA MB BChir Camb., FRCS	(†) (†)
<b>Pathology</b> Searff, R. W., CBE, MB BS, FRCS	Prof.	Murray, C. J. B., MS, FRCS Lloyd-Davies, O. V., MS, FRCS Ferguson, J. H. L., MBE, MA MB BChir Camb, FRCS	(†) (†) (†)
<b>Pharmacology</b> Keale, C. A., MD, FRCP Hobbs, F., MD Vienna, PhD	Prof. Reader	<b>Thoracic Surgery</b> Sellers, T. H., MA DM MCh Oxon, FRCS	(†)
<b>Physical Medicine and Rheumatism</b> Boyle, A. C., MD, FRCP	(†)	<b>SPECIAL LECTURESHIPS</b> <b>Medicine</b> Joules, H., MD, FRCP Avery Jones, F., MD, FRCP Asher, R. A. J., MD, FRCP Bell, K. P., MD, MRCP	(†) (†) (†) (†)
<b>Physics</b> Roberts, J. E., DSc, FIP Cook, H. F., BSc PhD, FIP	Prof. Reader	<b>Surgery</b> Iltyd James, T. G., BSc MCh MB, FRCS Fergusson, J. D., MA MD Camb., FRCS	(†) (†)
<b>Physiology</b> Neal, E., BSc MD Green, J. H., MA MB BChir Camb., PhD Duke, Helen N., MB ChB PhD	Prof. Reader		
<b>Plastic Surgery</b> Mowlem, R., MB ChB N.Z., FRCS	(†)		

## ADMINISTRATIVE AND OTHER STAFF

Accountant: N. D. Stone Librarian: Joan Hickling, FLA.  
Radiation Protection Officer: R. E. Ellis, PhD

## GENERAL INFORMATION

The sch. was built as a complete med. sch. for the teaching of anat. and physiol., chem., phys., and tool. in 1835, but teaching in the wards had begun in the earliest days of the hosp.'s existence, nearly 100 yrs. before.

The first section of the new pre-med. and pre-clin. sch. was occupied in 1960. It comprises large teaching labs. and lecture theatres. The second section, completed at end of 1962, contains professorial rooms, res. labs., dining hall, admin. rooms, etc., and the final phase will be the residential coll. for 175 students which will also contain student amenities.

**LIBRARY.** Boldero library (5015 vols.) contains latest med. text-books and leading med. journals.

**INSTITUTES, ETC.** Bland-Sutton Inst. of Pathol. with museum and labs.; S. A. Courtauld Inst. of Biochem.; Ferens Inst. of Otol.; Meyerstein Inst. of Radiotherapy; Inst. of Nuclear Med.; clin. res. inst.; professorial med. unit, surg. unit and psychiatric unit.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted either to 1st MB classes or direct to 2nd MB classes.

**FIRST DEGREE.** For students working for London MB BS, the full 5½-yr. course is provided at the sch. The 3-yr. clin. course at the sch. may also be taken by students who have undertaken their pre-clin. studies at Cambridge or Oxford and are working for Cambridge MB BChir or Oxford BM BCh.

**HIGHER DEGREES** Facilities at sch. for study for London MSc in radiation biol. & radiation phys.

**OTHER QUALIFICATIONS** LRCP, MRCS ('conjoint qualif.' granted by Royal Colls. of Physicians and Surgeons), in this sch., exams. for LRCP, MRCS may normally be taken only by students intending to take univ. degrees in med.

**COURSES NOT LEADING TO A QUALIFICATION** 4-wk full-time course in radiation hazards & safety.

**ALLIANCE** An exchange scheme exists at consultant and professorial level with the med. fac. of the Univ. of Toronto.

**STUDY LEAVE** Applicants for study leave are considered individually by the sch. council.

**FEES** Entrance, £15 15s; annual tuition fee, £70 p.a.; clubs' sub. (compulsory), £7. 7s. p.a.

**SCHOLARSHIPS AND PRIZES.** Numerous scholps.

and prizes are awarded annually to a total value of over £1000. These incl. 2 entrance scholps. to the value of £100 each, 2 scholps. value £100 each for Univ. of London students of the med. sch. who have completed studies in anat. and physiol.; and 2 open to students of the univs. of Oxford and Camb. who have completed the curriculum for, or passed, the exams. in anat. and physiol.

**POSTGRADUATE AWARDS** open to grads. of other univs. . see p. 910.

**RESIDENCE.** There is limited accomm. for resident students. Surgical dressers live in during their 'emergency week', as do the extern clerks during their course in radiology.

**PUBLICATIONS** *Med. School Prospectus* (annually in mid-Sept.); *The Story of the Middlesex Hosp. Med. School 1835-1935*, by Dr. H. C. Thomson (written for sch.'s centenary); *Middlesex Hosp. Journal* (produced by students' bi-monthly).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS** Courtauld Ltd, £25,000 towards modernization of Courtauld Inst. of Biochem.

**NEW CHAIRS** Psychol. med.

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	373	—
Women	83	—
Total	456	—

*Included in the figures above are:—*

Postgraduate students, 57 (49 m., 8 w.).

New admissions, 82 (67 m., 15 w.).

Students from other countries, 37 (34 m., 3 w.).

(Countries from which largest numbers came: India, 8; Malaysia, 4).

**DEGREES AWARDED (1960-61)** MB BS, 47; PhD, 5; MB BChir, 20; BM BCh, 7; MSc, 3; MD, 1; MS, 2.

**OTHER QUALIFICATIONS AWARDED (1960-61).** LRCP, MRCS, 29; MRCP, 2; FRCS, 2.

[Information compiled as at 1/8/62]

## ROYAL DENTAL HOSPITAL OF LONDON, SCHOOL OF DENTAL SURGERY

Founded 1858

Postal Address: 32 Leicester Square, London, W.C. 2, England

Telephone: Whitehall 6427

CHAIRMAN OF THE COUNCIL—The Rt. Hon. VISCOUNTS MONCKTON OF BRENCHLEY, CBE

DEAN—Professor R. B. LUCAS, MD DPH Edin., MRCP

SCHOOL SECRETARY—K. R. McK. BRIGGS, BA

U.K.—ENGLAND (LONDON)

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

<b>Children's Dentistry</b>		Cook, H. P., MDS MB BS, FDSRCS	(†)
James, P. M. C., MDS DPD <i>St. And.</i>	Sr. Lectr.	<b>Oral Anatomy</b>	
<b>Conservative Dentistry</b>		Blackwood, H. J. J., MD BDS <i>Belf.</i>	Reader
Pickard, H. M., FDSRCS	Reader	<b>Oral Pathology</b>	
<b>Dental Prosthetics</b>		Lucas, R. B., MD DPH <i>Edu.</i> , MRCP	Prof.
Chick, A. O., MDS PhD <i>Brit.</i>	Prof.	<b>Oral Surgery</b>	
<b>Dental Surgery</b>		.....	Prof.
Pickling, B. W., FRCS, FDSRCS	(†)	McCague, J. N. W., FRCSed, FDSRCS	18r. Lectr.
Walker, D. G., MA MD BAO		<b>Orthodontics</b>	
MDentSc <i>Dub.</i> , FDSRCS	(†)	Walther, D. P.	Prof.
Hovell, J. H., FDSRCS	(†)	<b>Periodontology</b>	
Hardwick, H. L., FDSRCS	(†)	Wade, A. B., BChD <i>Lond.</i> , FDSRCS	Sr. Lectr.
Graham, M. P., FDSRCS	(†)	<b>Radiology</b>	
James, P. M. C., MDS DPD <i>St. And.</i>	Sr. Lectr.	Blackman, S., DMRE <i>Comb.</i>	(†)
Wade, A. B., BChD <i>Lond.</i> , FDSRCS	Sr. Lectr.		
McCague, J. N. W., FRCSed, FDSRCS			
Coffin, F. R., FRCS, FDSRCS	18r. Lectr. (†)		

## ADMINISTRATIVE AND OTHER STAFF

Asst. Dean: P. M. C. James, MDS DPD  
*St. And.* Hon. Librarian: H. M. Pickard,  
 FDSRCS. Asst. School Secretary: Beryl D

Cottell. Accountant: E. G. Smith. Radiation  
 Protection Officer: H. J. J. Blackwood, MD  
*BDS Belf.*

## GENERAL INFORMATION

Founded 1858 by Odontological Soc. of London. Opened in 80th Square 1859, after successful appeal to Royal Coll. of Surgeons and parliament for estab. of exam. for licentiate in dent. surg. Moved to Leicester Square in 1874. Present bldg. erected 1901. A sch. of the univ. since 1911. Incorporated 1948, pursuant to section 15 of the N.H.S. Act (1946), when its parent hosp. was designated to St. George's Hosp. group.

**CONSTITUTION.** Governed by a council incl. reps. of univ., Royal Dental Hosp. and teaching staff.

**INCOME (1960-61).** Total income: £129,111 (endowments, 2.4 per cent.; univ. grant, 90 per cent.; fees, 7 per cent.; other sources, 2.6 per cent.).

**LIBRARY.** Stobie memorial library, 4300 vols. full reading service.

**ADMISSION.** See p. 1066 and Appendix III. Limited number of students may be admitted to 1st MB course (at St. Bartholomew's Hosp. Med. Coll.), otherwise admission made direct to 2nd and BDS course or (though preference given to degree candidates) to 1st LDS course.

**FIRST DEGREE.** For students working for London BDS, a 4½-yr. course is provided at the

sch. Courses also provided in special cases for London BSc (spec.) in anat. and in physiol.

**HIGHER DEGREES.** Facilities at sch. for study for London MDS.

**OTHER QUALIFICATIONS.** 4 yrs.—LDSRCS (granted by Royal Coll. of Surgeons).

**FEES.** BDS degree or LDS dipl.—entrance fee, 10 gs.; composition fee (incl. all normal tuition fees, materials, hire of apparatus, etc.), £89; 112. p. 2 (final instalment for BDS students, £28; 22).

**SCHOLARSHIPS.** Numerous scholps. and prizes are awarded annually, incl. an entrance scholp. of £100.

**STUDENT HEALTH SERVICE.** Annual exam. of all students by mass miniature radiog. by arrangement with univ. General student health service by arrangement with St. George's Hosp. Med. Sch. has operated since 1951.

**STUDENTS' SOCIETY AND ATHLETIC CLUB.** Provide facilities for academic and soc. meetings, debates, etc., and the following sports: athletics, badminton, cricket, fencing, golf, hockey, judo, rowing, rugby, sailing, soccer, squash, swimming, tennis.

**PUBLICATIONS.** *Calendar*; *Royal Dental Hosp. Magazine*.

## THE YEAR 1961

RETIREMENTS Dr O. L. Carden Sibley  
(anesth.)

Included in the figures above are:—

Postgraduate students, 80.

New admissions, 51 (incl. 44 pre-clin. \*, 4 full-time postgrad. and 3 short-course LDS students).

Students from other countries, 21 (Countries from which largest numbers came: India, 6, Greece, 3).

## Statistics

STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time*	Occasional
Men	126	39	69
Women	43	11	7
Total	168	50	76

DEGREES AWARDED (by Univ. of London) (1960-61) BDS, 27

DIPLOMAS, ETC., AWARDED (1960-61) DOrth RCS, 3, LDSRCS, 40 (incl. 21 students who also graduated BDS).

\* BDS students attending pre-clin. courses at other schs. of the Univ.

[Information compiled as at 1/8/62]

## ROYAL FREE HOSPITAL SCHOOL OF MEDICINE

Founded 1874

Postal Address 8 Hunter Street, Brunswick Square, London, W.C.1, England

Telephone: Terminus 5385

PRESIDENT—PROFESSOR MARY F. LUCAS KIRKE, DSc MB BS, FRCS

DEAN—FRANCIS V. GARDNER, MD, FRCP

CHAIRMAN OF THE COUNCIL—SIR FRANCIS W. LANCELET, KCB, MC

HON. TREASURER—SIR DONALD P. ANDERSON, MA Oxon.

SECRETARY—STEPHANIE C. S. ROBINSON, MA Oxon.

## APPOINTED AND RECOGNIZED TEACHERS

(†=Part-Time)

## Anæsthetics

Dawkins, C. J. M., MA MD Camb.,

FFARCS

Gilchrist, Edith, MB BS, FFARCS

Steel, G. C., FFARCS

Willis, J., FFARCS

Wynter, T., MD, FFARCS

## Anatomy

Bowden, Ruth E. M., MB BS DSc

Prof

Napier, J.

Reader

Davis, P. R., PhD MB BS

Sr. Lectr.

MacKinnon, Pamela C. B., PhD MB BS

Lectr.

## Biochemistry

Ryman, Brenda E., MA Camb., PhD Birm.

Reader

Lectr.

## Biology

Hughes, Mrs Margaret, BSc PhD

Reader

## Chemistry, Inorganic

Sanderson, Phyllis M., DIC, BSc PhD

Sr. Lectr.

Kurzer, F., BSc PhD DSc

Sr. Lectr.

## Chemistry, Organic

Lawson, A., BSc PhD Glas., DSc

Prof.

## Dental Surgery

Downton, D., FDSRCS

(†)

## Dermatology

Cainan, C. D., MA MB BChir Camb.,

MRCP

Prof.

U.K.—ENGLAND (LONDON)



<b>Hematology</b>		<b>Pediatrics</b>	
Fleming, W. J. D., MB BChir Camb.	St. Lectr.	Hart, E. W., MBE, MD Camb., FRCP	(†)
<b>Infectious Diseases</b>		James, Ursula, MB BS, FRCP	(†)
Ramsay, A. M., MA MD	(†)	Mancreff, Zuma E., MA MB ChB Aberd., MRCP	(†)
<b>Medical Microbiology</b>		Shelley, Ursula, MD, FRCP	(†)
Crowley, Nuala F. T.	Sr. Lectr.	<b>Pathology</b>	
<b>Medicine</b>		Hill, K. R., BSc MD, MRCP	Prof
Compton, N. D., MA MD, FRCP	(†)	<b>Pathology, Chemical</b>	
Davis, H., MA MB BChir Camb., FRCP	(†)	Baron, D. N., MD	Reader
Dawson, A. M., MD, MRCP	Sr. Lectr.	<b>Pharmacology</b>	
Dunstable, Mrs. Helen E., MA MD Camb., FRCP	(†)	Zarins, Mrs. Eleanor J., BSc MD Athur	Prof.
Gardner, Francis V., MD, FRCP	(†)	Hodges, J. R., BPharm PhD	Sr. Lectr.
Hancock, P. E. T., MB BChir Camb., FRCP	(†)	<b>Physical Medicine and Rheumatology</b>	
Ledingham, Mrs. Una C., MD, FRCP	(†)	Richardson, A. T., MB BS, MRCP	(†)
Lee-Lauder, F. P., OBE, MD, FRCP	(†)	<b>Physics</b>	
Macpherson, Alice M. C., MD, FRCP	(†)	Simons, H. A. B., MA Camb., PhD	Reader
Shedlock, Sheila P. V., MD BSc, FRCP	Prof.	<b>Physiology</b>	
<b>Mental Diseases</b>		Downman, C. B. B., BSc PhD	Sophia Jee-Blake Prof.
Brown, F. W., DM Oxon., MRCP	(†)	Coleridge, J., BSc MB ChB Leeds	Reader
Ellithorn, A., MA MD Camb., DPM, MRCP	(†)	Scott, Mrs. Patricia P., BSc PhD	Sr. Lectr.
Hardwick, S. W., MD, MRCP	(†)	Moore, R. E., PhD MB BS	Lectr.
Holman, Portia G., MA MD Camb., FRCP	(†)	<b>Radiology</b>	
<b>Morbid Anatomy</b>		Davis, S., MB BS, MRCP, FFR	(†)
Boswick, Isabel P., MD	Sr. Lectr.	Madden, E. B. P., DMRE Camb.	(†)
Scott, G. B. D., MD	Reader	<b>Radiotherapy</b>	
<b>Obstetrics and Gynaecology</b>		Wade, Phyllis, MB BS	(†)
Barnes, A. Josephine, MA DM Oxon., MRCP, FRCS, FRCOG	(†)	<b>Surgery</b>	
Hewkins, J., MD MS, FRCS, FRCOG	(†)	Gray, C. H., BSc MB ChB Manc., FRCS	(†)
Moesta, Sybil G., MD, FRCS	(†)	Henderson, J. C. R., MD NZ, FRCS	(†)
Moore, Jocelyn A. M., MB BS, FRCS, FRCOG	(†)	Hopewell, J. P., MB BS, FRCS	(†)
Noonan, P. R., MB BS	Sr. Lectr.	Johnson, H. D., MA MB BChir Camb., FRCS	(†)
Robinson, Kathleen M., MD, FRCS, FRCOG	(†)	MacLeod, A. C., MB BS, FRCS	(†)
<b>Ophthalmology</b>		Qvist, G., MB BS, FRCS	(†)
Dellar, Jean M., MS, FRCS	(†)	Radley-Smith, E. J., MS, FRCS	(†)
Hobbs, H. E., MB BS, FRCS	(†)	Ross, H., MA MCs Oxon., FRCS	(†)
<b>Oto-Rhino-Laryngology</b>		Enalyn Williams, A., BSc MB BCh Wales, FRCS	(†)

## ADMINISTRATIVE AND OTHER STAFF

Registrar: Pauline McCormick, BA, Accountant: Winifred Webb, Aest. Sec.: Mrs. Gladys Barnes, BA, Librarian: Patricia Fear House

Steward: Carmen Norfolk Radiation Protection Officer: N. F. Kember, PhD BSc.

## GENERAL INFORMATION

Founded 1874. Incorporated as a sch. of the univ. in 1900. Royal charter granted 1938.

**LIBRARIES AND MUSEUMS.** Main library (10,000 vols.) in sch. bldgs. Small libraries in depts. and in all hospes. New anat. museum in main sch.; pathol. at Gray's Inn Rd.

**TEACHING HOSPITALS.** Clin. teaching is given in the Royal Free Hosp. teaching group (over 800 beds), comprising the parent hosp. in Gray's Inn Rd., WC 1, and its annexes at Lawn Rd., Hampstead, and Liverpool Rd., N.1, and Hampstead General Hosp.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted either to 1st MB classes or direct to 2nd and MB classes.

**FIRST DEGREE.** The full 5½-yr. course is provided for the London MB BS. Students working for the Oxford BM BCh and the Cambridge MB BChir are accepted for the 3-yr. clin. course. Courses also provided for the London BSc (spec.) in anat. and in physiol.

**HIGHER DEGREES.** Facilities available for postgrad. study in med. and pathol. units and in all pre-clin. depts. Course provided for London MSc in radiation biol. & radiation phys.

**FEES.** Undergrad. (incl. students' union sub.), £75 p.a. Postgrad., £70 p.a., MSc course in radiation biol. & radiation phys., 90 gs. p.a.

**SCHOLARSHIPS.** Entrance scholarships, and undergrad. awards to total value of £4000 offered annually, and postgrad. scholrs. to total value of £4000, incl. Annie McCall fellowship in midwifery, value £1500. See also p. 910.

**STUDENT HEALTH SERVICE.** Full med. exam. every 4 yr. Physician-in-charge holds weekly clinics.

**ATHLETIC FACILITIES.** The sch.'s athletic ground is at Myddelton House, Enfield. Pitches for rugby and assocn. football, hockey, lacrosse, net-ball, cricket and tennis. Club-house and gardens adjoining.

**PUBLICATIONS.** *Annual Prospectus*, *Annual Report*; *Royal Free Hosp. Journal* (quarterly).

## THE YEAR 1961

**PRINCIPAL BENEFITATIONS.** Polio Res. Fund, £15,000 for electron microscope.

**RETIREMENTS.** Katharine G. Lloyd-Williams (anesth.), Catherine L. T. Lucas (biol.); Anne Ratcliffe (chem.); Kathleen M. Stuart-Harris (anesth.).

**RESIGNATIONS.** Maureen de Saenon (anesth.), Elizabeth M. Frances (anesth.); Phyllida M. M. Roberts (pathol.), apptd. to consultant post. Kathleen Studton (phys.), apptd. to post in U.S.A.

**DEATHS.** Elizabeth Bolton (dean, 1931-45).

## Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	89	—
Women	339	—
Total	428	—

Distribution by Faculties. *Med.*, 408; *Sci.*, 20. Total = 428.

Included in the figures above are —

Postgraduate students, 40.

New admissions, 89.

Students from other countries, 59. (Countries from which largest numbers came: India, 9; Malaya, 6; Nigeria, 5).

**DEGREES AWARDED (1960-61)** *Med.*: MB BS, 66; MD, 1; MD Camb., 1. *Sci.*: BSc spec. (anat.), 1; (physiol.), 3. PhD (all facs.): 8; PhD Durh., 1. Total number of first degrees awarded, 70.

**DIPLOMAS AWARDED (1960-61).** LRCP, MRCS, 50; FRCP, 1; FRCS, 1; FRCOG, 2; MRCP, 5; DA, 5; DCH, 6; DCP, 1; DMRD, 1; DMRT, 1; DO, 3; DipPath, 3; DPhys Med, 1; DPM, 1; DROCG, 10.

# ST. BARTHOLOMEW'S HOSPITAL MEDICAL COLLEGE

Founded 1662

Postal Address: West Smithfield, London, E.C.1, England

Telephone: Monarch 7404

PRESIDENT—M. W. PUGH, CBE

VICE-PRESIDENT—C. F. HARRIS, MD, FRCP

DEAN—J. W. COPE, FRCS

SUB-DEAN—H. W. BALSH, MA MD, MRCP

SECRETARY—C. E. MORRIS, FCA

## APPOINTED AND RECOGNIZED TEACHERS

### Anæsthetics

Evans, F. T., MB BS, FFARCS

Ellis, G. H., FFARCS

Bowen, R. A., MB BS, FFARCS

Ballantine, R. I. W., FFARCS

### Anatomy

Cave, A. J. E., MD DSc *Med.*, FRCS,

PLS

Lewis, O. J., MD *Med.*

Prof.

Reader

### Bacteriology

Shooter, R. A., MD Camb.

O'Grady, F. W., MSc MD BS

Prof.

Reader

### Biochemistry

Wormall, A., DSc *Leadr.*, FRS, FRIC

Francis, G. E. C., PhD Lond., FRIC

Wills, E. D., MA Camb., MSc PhD

Hawkins, J. D., MA Camb., PhD Lond.

Prof.

Reader

### Children's Diseases

Harris, C. F., MD, FRCP

Franklin, A. W., MA MB BChir Camb., FRCP

### Dental Surgery

Hankey, G. T., OBE, TD, FDSRCS

Cowan, G. A., MB BCh BDS *Dub.*, FDSRCS

### Dermatology

MacKenna, R. M. B., MD Camb., FRCP

### Medicine

Black, K. O., MD Camb., FRCP

Cushman, E. R., MD, FRCP

Gibb, W. E., DM *Oxon.*, FRCP

Hayward, G. W., MD, FRCP

Oswald, N. C., MD Camb., FRCP

Scott, R. Bodley, DM *Oxon.*, FRCP

Scowen, F. F., MD, FRCP

Spence, A. W., MD Camb., FRCP

Spencer, A. G., MD Lond., MRCP

Turner, J. W. A., DM *Oxon.*, FRCP

Prof.

Reader

### Obstetrics and Gynaecology

Beattie, W. J. H. M., MD Camb., FRCS,

FRCOG

Fraser, D. B., BM BCh *Oxon.*, FRCS

Howkins, J., MD MS, FRCS, FRCOG

### Ophthalmology

Seelind, H. B., MBE, TD, MD Camb.,

Hon. LL.D. *St. And.*, FRCS

### Orthopaedics

Burrows, H. J., MA MD Camb., FRCS,

FRACS

Colbart, W. D., MB BS, FRCS

### Oto-Rhino-Laryngology

Cappa, F. C. W., FRCS

Hogg, J. C., MB BChir Camb., FRCS

### Pathology

Lehmann, H., MD *Berlin*, PhD Camb.,

FRIC

Stansfeld, A. G., MD BChir Camb.

Brewer, H. F., MD Camb.

Anderson, A. B., PhD, FRIC

Reader

# ST. BARTHOLOMEW'S HOSPITAL MEDICAL COLLEGE 1171

## Pharmacology

Quilliam, J. P., MSc MB BS Lond Prof

## Physics

Rotblat, J., MA Warsaw, PhD Lond, DSc Lond Prof

Banks, T. E., PhD Brun., FIP Sr. Lectr

## Physiology

Daly, M. de B., MA MB BChr Camb. Prof

McDonald, D. A., MB BCh Oxon. Reader

Ammoner, F. J., MSc

Ullmann, Elisabeth, BSc PhD Lond.

## Psychiatry

....

## Radiology

Harper, R. A. K., MD Edin., FFR, FRCPEd, FRFSGlas

Simon, G., MD DMRE Camb., FFR

Williams, I. G., DMRE Camb., MB BS, FRCS, FFR

## Surgery

Badenoch, A. W., MA MD ChM Aberd., FRCS

Cathpole, B. N., MD Manc. & Adel., ChM Manc., FRCS Reader

Hill, I. M., MS, FRCS

Hunt, A. H., DM MCh Oxon., FRCS

Neesh, D. F. E., FRCS

Newton Morgan, C., MB BS, FRCS

O'Connell, J. E. A., MS, FRCS

Taylor, G. W., MB BS, FRCS Prof.

Tubbs, O. S., MB BChr Camb., FRCS

Tuckwell, E. G., MCh Oxon., FRCS

## Venerical Diseases

Nicol, C. S., MD, FRCP

## Zoology and Comparative Anatomy

Lacy, D., MA Oxon., PhD Lond Reader

## ADMINISTRATIVE AND OTHER STAFF

Warden: G. Ellis, FFARCS. Medical Officer: J. H. Coulson, DCH. Librarian: J. L. Thornton.

Radiation Protection Officer: Prof J. Rothbar, MA Warsaw, PhD Liv., DSc Lond

## GENERAL INFORMATION

St. Bartholomew's Hosp. was founded in 1123 by the monk Rahere, who subsequently founded the priory of St. Bartholomew's. The med. coll. was founded in 1662.

The coll. forms part of the Univ. of London and carries out its clin. teaching in St. Bartholomew's Hosp. in the city of London. Non-members of the univ. may be admitted to clinics but each case is considered separately.

**LIBRARY AND MUSEUM.** Approx. 23,000 vols in 2 libraries (one in pre-clin. sch., the other in clin. sch.) which contain all the standard works on med., surg. and the allied scs., med. and other scientific periodicals, with a valuable collection of works on religion, hist. and general lit. The museum contains a complete series of pathol. specimens in addition to extensive series of casts and drawings and large collections of specimens illustrating general and compar. anat., physiol., zool. and morphol.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted either to 1st MB classes or direct to and MB classes.

**FIRST DEGREE.** For students working for London MB BS, the full 5½-yr. course is provided at the coll. The 3-yr. clin. course at the coll. may also be taken by students who have undertaken their pre-clin. studies at Cambridge or Oxford and are working for Cambridge MB BCh or Oxford BM BCh. Courses also provided for London BSc (spec.) in physiol.

**HIGHER DEGREE.** Facilities at coll. for study for London MSc in radiation biol. & radiation phys., MSc and PhD.

**OTHER QUALIFICATIONS.** LRCP, MRCS ('conjoint qualif.' granted by Royal Colls. of Physicians and Surgeons), coll. unwilling to accept students for LRCP, MRCS who are not also working for univ. degree. FRCS (8-wk. pt.-time advanced revision course). DMRD & DMRT pts. I & II.

**FEES.** Annual tuition fee, £80. Union sub. (compulsory): 7 ps. p.a.

**SCHOLARSHIPS.** Total annual sum of the value of over £2000 available for scholps., entrance scholps. in arts and sci., value £40 p.a. for 5 yrs.; Jefferson exhibition, value £40 p.a. for 3 yrs.; 4 scholps. for res. (in med., surg. and pathol.) are open to grads of any univ. studying at St. Bartholomew's Hosp. See also p. 910.

**STUDENT RESIDENCE.** Resided in College Hall (accomm. for 80 men and 20 women) is restricted to internal students of the coll. who are undertaking their clin. studies.

**STUDENTS' HEALTH SERVICE.** There is a whole-time med. officer. Incl. in the service are the various protective measures against infectious dis.

**STUDENTS' UNION.** All full-time students become life members of the students' union on payment of the appropriate fee. Full-time students are eligible to join all clubs and each student receives a free copy of the *Journal* monthly.

**PUBLICATION.** *Handbook* (annual).

U.K.—ENGLAND (LONDON)

## THE YEAR 1961

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	515	61
Women	126	3
Total	641	64

Included in the figures above are—  
Postgraduate students, 77 (incl 20 full-time)

Dental students, 55 (incl 49 full-time).  
New admissions, 109  
Students from other countries, 68 (Country from which largest numbers came: S. Africa, 5).

DEGREES AWARDED (1960-61). MB BS Lond, 69; MB BChir Camb, 23, BM BCh Oxon, 6

OTHER QUALIFICATIONS (1960-61) MRCS, LRCP, 24, LMSSA, 4

[Information compiled as at 1/8/62]

## ST. GEORGE'S HOSPITAL MEDICAL SCHOOL

Founded soon after 1734

Postal Address: Hyde Park Corner, London, S.W.1, England

Telephone: Belgravia 1716

CHAIRMAN OF THE MEDICAL SCHOOL COUNCIL—The Rt. Hon. Sir GERALD UFFOHN, CBE, MA Camb.

DEAN—M. I. A. HUNTER, MD Camb., FRCP

VICE-DEAN—M. A. PARTIPPOE, MA DM BCh Oxon., MRCP

HON. LEBARIAN—G. EDWARDS, FFARCS

SECRETARY—C. R. M. CUMMIE

## APPOINTED AND RECOGNIZED TEACHERS

Anaesthetics			
Johnson, E. F., MB BS, FFARCS	Sr. Lectr.	Perkins, D. J., MSc PhD, FRIC	Sr. Lectr.
Lindsay, E., FFARCS	Sr. Lectr.	Dormandy, T. L., MB BS BSc, FRCS	
Hendley, S. R. T., MB BS, FFARCS	Sr. Lectr.	Franglen, G. T., BSc	St. Lectr.
Anatomy, Applied			
Nicol, T., DSc, FRCS	Prof.	Dental Surgery	
		Fickling, B. W., FRCS, FDSRCS	Sr. Lectr.
Bacteriology		Dermatology	
Elek, S. D., PhD MD DSc DCP DPH	Prof	Gold, S. C., MD Camb.	Sr. Lectr.
Hibson, G. R. F., MD BS	Reader	Forensic Medicine	
Stern, H., PhD MB ChB Glas	Reader	Teare, R. D., MD Camb., MRCP	Sr. Lectr.
Cardiology		Genito-Urinary Surgery	
Hunter, M. I. A., MD Camb., FRCP	Sr. Lectr.	Anderson, H. F., MB BChir Camb., FRCS	Sr. Lectr.
Leathem, A. G., MB BChir Camb., FRCP	Sr. Lectr.	Haematology	
Chemical Pathology		Martin, N. H., BSc DPhil, MA BM BCh Oxon., FRCP, FRIC	Prof.
		Stifford, J. L., MB ChB Birm.	Reader

<b>Industrial and Social Medicine</b>		Lloyd-Roberts, G. C., BA MB BChir Camb., FRCS	Sr. Lectr.
Sesley, C., MD DPH	Sr. Lectr.	French, P., FRCS	Sr. Lectr.
<b>Infectious Diseases</b>		<b>Oto-Rhino-Laryngology</b>	
McEntee, J. C., MA MD Dub., MRCP	Sr. Lectr.	Pascock, J. R., MB BChir Camb., FRCS	Sr. Lectr.
<b>Medicine</b>		Perma, A. L., MB BS, FRCS	Sr. Lectr.
Dornhoest, A. C., MD, FRCP	Prof.	<b>Pædiatrics</b>	
Dow, J. F., BA MB BChir Camb., FRCP	Sr. Lectr.	Pinckney, C. P., MA MB BChir Camb., FRCP	Sr. Lectr.
Hunter, M. I. A., MD Camb., FRCP	Sr. Lectr.	Kesson, C. W., MD BS	Sr. Lectr.
Leatham, A. G., MB BChir Camb., FRCP	Sr. Lectr.	<b>Pathology</b>	
Robson, K., MA MD Camb., FRCP	Sr. Lectr.	Crawford, T., BSc MD Glas., FRFSGlas	Prof.
Nassim, J. R., MA BM BCh Oxon., FRCP	Sr. Lectr.	Dexter, D., MD <i>Shelf</i>	Reader
Batten, J. C., MD, MRCP	Sr. Lectr.	Spittle, Miss C., MB BS	Sr. Lectr.
Pilkington, T., MD, MRCP	Sr. Lectr.	Pullar, P., MB ChB Glas	Sr. Lectr.
Robinson, B. F., MB BS, MRCP	Lectr.	<b>Physical Medicine</b>	
<b>Mental Diseases (Psychiatry)</b>		Shields, D. C., BM BCh Oxon.	Sr. Lectr.
Curran, D., MB BChir Camb., DPM, FRCP	Prof.	<b>Plastic Surgery</b>	
Mallinson, Sir Paul, MA BM BCh Oxon., FRCP	Sr. Lectr.	Blake, H. E., MA MB BChir Camb., FRCS	Sr. Lectr.
Partridge, M., MA DM BCh Oxon., MRCP	Sr. Lectr.	<b>Proctology</b>	
Haye, P., MB BS, DPM	Sr. Lectr.	Marnham, Sir Ralph, KCVO, MA MChir Camb., FRCS	Sr. Lectr.
<b>Neurology</b>		<b>Radiology</b>	
Williams, D. J., CBE, DSc MD Manc., FRCP	Sr. Lectr.	Allen, E. H., DMRE Camb.	Sr. Lectr.
<b>Neuro-Surgery</b>		Bull, J. W. D., MA MD Camb., DMR, FRCP, FFR	Sr. Lectr.
McKissock, W., OBE, MB MS, FRCS	Sr. Lectr.	<b>Radiotherapy</b>	
Waleh, L. S., FRCS	Sr. Lectr.	Richmond, J. J., MB BS Manc., DMR, FRCS	Sr. Lectr.
<b>Obstetrics and Gynaecology</b>		<b>Surgery</b>	
Gwillien, C. M., MD DPH, FRCP, FRCS, FRCOG	Sr. Lectr.	Marnham, Sir Ralph, KCVO, MA MChir Camb., FRCS	Sr. Lectr.
Charles, A. H., TD, MA MB Camb., FRCS, FRCOG	Sr. Lectr.	Ruddell, V. H., MA MD Camb., FRCS	Sr. Lectr.
Roberts, D. W. T., MChir Camb., FRCS	Sr. Lectr.	Siddons, A. H. M., BA MChir Camb., FRCS	Sr. Lectr.
<b>Ophthalmology</b>		Smith, E. R., MS, FRCS	Sr. Lectr.
Duke-Elder, Sir Stewart, KCVO, MA MD DSc <i>Str.Awd.</i> , PhD, FRCS, FRS	Sr. Lectr.	Anderson, H. F., MB BChir Camb., FRCS	Sr. Lectr.
Bridgman, Hon. G. J. O., MB BChir Camb., FRCS	Sr. Lectr.	Gillespie, J. A., MD ChM, FRCSed	Sr. Lectr.
Miller, S. J. H., MD <i>Aberd.</i> , FRCS	Sr. Lectr.	Robinson, T. M., MBE, MA MD MChir Camb., FRCS	Sr. Lectr.
<b>Orthopaedics</b>			
Young, R. H., MB BChir Camb., FRCS	Sr. Lectr.		

## ADMINISTRATIVE AND OTHER STAFF

Dean's Sec.: Máireen Rattus. Accountant: W. H. Martin.  
Asst. Librarian: Major L. Carr, MBE.

## GENERAL INFORMATION

St George's Hosp. was opened in 1734 and the physicians and surgeons were permitted to have a limited number of pupils from its inception. The sch has been unchanged since 1868 until the present rebuilding scheme was begun.

The numbers entering are deliberately kept small, and, in spite of recent increases, it has been possible to maintain the old tradition of individual teaching.

**LIBRARY, MUSEUM, ETC.** The sch library (5848 vols.) contains text-books and journals dealing with all branches of clin. study. The pathol. dept. contains labs. of morbid anat., bacteriol., haematol. and chem. pathol.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted to the sch. only direct to clin. courses.

**FIRST DEGREE.** The sch. provides clin. try only (3-yr. course) for students working for London MB BS or (for those who have undertaken their pre-clin. studies at Cambridge or Oxford) Cambridge MB BChir or Oxford BM

BCh. For students working for London MB BS, pre-clin. course for 2nd MB provided at King's Coll., Lond.

**HIGHER DEGREE.** No facilities for study for higher degrees.

**OTHER QUALIFICATIONS.** LRCP, MRCS ('conjoint qualif.' granted by Royal Colls. of Physicians and Surgeons), FRCS (9-wk. pt.-time course).

**RESEARCH.** Qualified students wishing to undertake res. are encouraged to do so. Small annual grants from endowments are available for the purpose.

**FEES.** Annual composition fee (incl. union membership), £77.7s.

**SCHOLARSHIPS.** Six entrance scholps. of the total value of £800 are offered for competition annually. The subjects of exam. are either anat. and physiol. or pathol. Prizes of the total value of £260 are also offered for competition each year.

**PUBLICATIONS.** *Prospectus*, *Gazette*.

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** *Hides completed:* students' residential quarters at Tooting; sports pavilion.

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of psychiatry.

**RETIREMENTS.** R. H. Burns (orthop.), M. P. Nicholls (surg.); Dr. E. Edwards (med. path.); Dr. H. Gordon (dermatol.).

**RESIGNATIONS.** Dr. C. R. Cameron (chem. pathol.); Dr. E. Møller (mental dis.).

**DEATHS.** J. Hamilton Paterson (as lect. in neurol.).

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	123	22
Women	22	2
Total	145	24

*Included in the figures above are:—*

Postgraduate students, 48 (43 m., 5 w.; incl. 15 m. and 3 w. full-time).

New admissions, 48 (40 m., 8 w.).

Students from other countries, 21. (Country from which largest number came: Nigeria, 7).

**DEGREES AWARDED (1960-61).** MB BS Lond., 24; MB BChir Camb., 7; BM BCh Oxon., 1.

[Information compiled as at 6/7/62]

## ST. MARY'S HOSPITAL MEDICAL SCHOOL

Founded 1854

**Postal Address:** Norfolk Place, Paddington, London, W.2, England  
**Cables and Telegrams:** St. Mary's Hospital Medical School, London, W.2  
**Telephone:** Paddington 3612

**PRESIDENT—THE LORD COHEN**

**DEAN—G. B. MITCHELL-HAGGS, OBE, TD, MD, FRCP**

**SECRETARY—J. E. STEVENSON, LLB**

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anaesthetics		Neurology	
Morris, L. H., BA, FFARCS	†(C)*	Brinton, D. H., DM Oxo., FRCP	†(C)
Lloyd Owen, M. W., TD, MB BChir Camb.	†(C)	Edwards, C. H., FRCP	†(C)
Thornton, H. L., FFARCS	†(C)		
Anatomy		Obstetrics and Gynaecology	
Goldby, F., MA MD Camb.	Prof.	MacGillivray, I., MD, FRCOG	Prof.
Bellars, A. d'A., MA MSc	Reader	MacLeod, D. H., MB MS, FRCP, FRCS, FRCOG	†(C)
Breathnach, A. S., MSc MB BCh BAO NUI.	Sr. Lectr.		
Menzies, A. G. H., MD BCh Linc., PhD	Sr. Lectr.	Ophthalmology	
Gamble, H. J.	Lectr.	Cross, A. G., MA MD Camb., FRCS	†(C)
		Lough, A. G., MD Linc., FRCS	†(C)
Bacteriology		Orthopaedics	
Williams, R. E. O., BSc MD, MRCP	Prof.	Adams, J. C., MD, FRCS	†(C)
Hughes, W. H., MD	Reader	Bonney, G. L. W., MS	†(C)
Hummelwest, H., MD BSc, PhD	Lectr.		
Biochemistry		Oto-Rhino-Laryngology	
Williams, R. T., DSc BSc, PhD Wales	Prof.	Simpson, J. F., FRCS	†(C)
Farlie, D. V., BSc PhD, FRIC	Sr. Lectr.	Robin, I. G., MA MB BChir Camb., FRCS	†(C)
Smith, J. N., BSc PhD, FRIC	Lectr.		
Biology		Paediatrics	
Foster, C. L., MSc PhD	Reader	Lightwood, R. C., MD, FRCP	†Dir.
Fisk, A., MSc	Lectr.		
Cameron, E., PhD DSc	Lectr.	Pathology and Morbid Anatomy	
Dermatology		Pryce, D. M., MD	Prof.
Mitchell-Heggs, G. B., OBE, TD, MD, FRCP	†(C)	Wright, E. A., MD	Reader
Fewell, M., MB BChir Camb., MRCP	†(C)	Porter, K. A., MD DSc	Sr. Lectr.
		Neumark, E., MD	Lectr.
Haematology		Pathology, Chemical	
Mollison, P. L., MD, FRCP	Dir.	Neuberger, A., MD PhD, FRCS	Prof.
Immunology		Pharmacology	
Porter, R. R., BSc PhD	Prof.	Stewart, H. C., MD Camb., PhD	Reader
Cohen, S., MD PhD	Reader	Nasmyth, P. A., BPharm Wales, PhD	Lectr.
		Andrews, W. H. H., MA DM Oxo., DTM&H Linc.	Lectr.
Medicine		Physics	
Hunt, T. C., BA DM Oxo., FRCP	†(C)	Rowlands, S., PhD Linc.	Reader
Brooks, W. D. W., MA DM Oxo., FRCP	†(C)	Groom, A. C., PhD	Lectr.
Letchfield, J. W., BA BM BCh Oxo., FRCP	†(C)		
Kemp, T. A., MA MD BChir Camb., FRCP	†(C)	Physiology	
Young, C. A., MD, FRCP	†(C)	Huggert, A. St. G. J. McC., DSc PhD MB BS, FRCS	Prof.
Frankland, A. W., MA DM BCh Oxo.	(C)	Creese, R., MB BS PhD	Reader
Peart, W. S., MD, FRCP	Prof.	Holton, Mrs. P., BA Camb., DPhil Oxo.	Sr. Lectr.
Ackroyd, J. F., DSc MB ChB Brit.	Sr. Lectr.	Nixon, D. A., MSc PhD	Lectr.
Sanderson, P. H., BA MB Camb.	Sr. Lectr.		
Mental Diseases		Radiology (Diagnostic)	
Peirce, J. D. W., MA MD Edin., FRCPed	†(C)	Williams, E. R., DMRE Camb., MD, FRCP, FFR	†Dir.
Metabolic Unit		Sutton, D., MD Manc.	Asst. Dir.
Wynn, V., MD Med.	Reader		

\* (C) = Clinical Teacher



**Radiotherapy**  
Hulbert, M. H. B., DMRE Camb., MB BS

Kenyon, J. R., MB ChM Glas., FRCSed,  
FRCS Sr Lectr

**Surgery**  
Parritt, Sir Arthur, Bt., KCMG, KCVO,  
CBE, MA BM MCh Oxon., FRCS (C)  
Eastcott, H. H. G., MS Lond., FRCS †(C)  
Irvine, W. T., BSc MD ChM Glas.,  
FRCSed, FRCS Prof.

**Thoracic Surgery**  
Bromley, L. L., MA MChir Camb., FRCS (C)

**Venereal Diseases**  
Jefferys, F. J. G. †(C)  
Wilcox, R. R., MD BS †(C)

## ADMINISTRATIVE AND OTHER STAFF

Accountant: E. J. Moulle, FCA Asst Secy.  
Mary D. Scott, MBE. Librarian.  
Wilhelmina Gallagher, BA, FLA. Student

Health Service Physicians: T. A. Kemp, MA  
MD BChir Camb., FRCP; H. D. Cockburn, MC  
Radiation Protection Officer: S. Rowlands, PhD

## GENERAL INFORMATION

Founded 1814. A sch. of the univ. in the fac. of med. and incorporated under the National Health Service Act, 1946.

**LIBRARY.** Over 5000 text-books and bound journals

**WHOLLY-FLEETING INSTITUTE OF MICROBIOLOGY** consists of depts. of bacteriol. and immunol. and units dealing with virol. and allergy and other specialized fields; it also houses a Medical Res. Council unit of hematology.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted either to 1st MB classes or direct to 2nd MB classes

**FIRST DEGREE.** For students working for London MB BS, the full 5½-yr. course is provided at the sch. The 3-yr. clin. course at the sch. may also be taken by students who have undertaken their pre-clin. studies at Cambridge or Oxford and are working for Cambridge MB BChir or Oxford BM BCh. Courses also provided for London BSc (spec.) in anat. and in physiol.

**HIGHER DEGREES.** Facilities at sch. for study for following London degrees: MSc in radiation biol. & radiation phys., in biochem., pharmacol. and physiol.—MSc, PhD, DSc.

**OTHER QUALIFICATIONS.** LRCP, MRCS (conjoint qualif. granted by Royal Colls. of Physicians and Surgeons); in this sch., exams. for LRCP, MRCS may be taken only by students intending to take univ. degrees in med.

**CLINICAL UNITS.** There are clin. units in med., surg. and paediatrics, the personnel of which wholly devote themselves to teaching and res. and assist students wishing to carry out original work.

**STUDY LEAVE.** Applicants for study leave are considered individually

**FEEs.** Annual composition fee (incl. union membership), £84.

**SCHOLARSHIPS.** Entrance: 1 of £100 p.a.; 5, each of £40 p.a. for 5 or 6 yrs.; univ., for clin. students: 1 of £100 p.a.; 2 of £50 p.a. and 1 of £40 p.a. (all tenable for 3 yrs.). Res. fellowships and many other prizes and scholcs. are available. For postgrad. awards, see p. 910.

**PUBLICATIONS.** *Prospectus* (annual); *St Mary's Hosp. Gazette*; *History of St. Mary's Hosp. Med. Sch.*, by Sir Zachary Cope (Heinemann, London, 1954).

## THE YEAR 1961

**PRINCIPAL BENEFICIARIES** British Empire Cancer Campaign, £13,500.

**NEW DEPARTMENT AND CHAIR.** Obst. & gynaecol. unit

**RETIREMENTS.** Dr. G. Kang (chem.).

**Statistics**

**STUDENT NUMBERS, 1961-62**

	Full-Time	Part-Time
Men	579	—
Women	106	—
Total	476	—

**Distribution by Faculties.** Med., 454; sci., 22. Total: 476.

Included in the figures above are:—  
Postgraduate students, 28.  
New admissions, 103.  
Students from other countries, 44. (Countries from which largest numbers came: Nigeria, 6; Ceylon, 5)

**DEGREES AWARDED (1960-61).** MB BS Lond., 43; MB BChir Camb., 9; BM BCh Oxon., 4.

**DIPLOMAS, ETC., AWARDED (1960-61).** MRCS, LRCP, 43. LMSSA, 1. MRCP, 4; DCH, 2. DMRD, 2.

## ST. THOMAS'S HOSPITAL MEDICAL SCHOOL

Founded in the 13th century

Postal Address: Albert Embankment, London, S E 1, England

Cables and Telegrams: St. Thomas's Hospital Medical School, London, S.E.1

Telephones: Waterloo 5656, exts. 23 and 356

DEAN—R. W. NEVIN, TD, MA MB BChir Camb., FRCS

SUB-DEAN—Professor D. V. DAVIES, MA Camb., DSc MB BS

MEDICAL SECRETARY—A. L. CROCKFORD, CBE, DSO, MC, TD, MA MB BChir Camb.

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

## Anæsthetics

Bourne, J. G., MA MD Camb., FFARCS

Wylie, W. D., MA MB BChir Camb.,

FFARCS

Newson, M. D., MA MD Camb.,

FFARCS

Wright, R. B., MA MB BChir Camb., FFARCS

Churchill-Devondson, H. C., MA MB

BChir Camb.

## Anatomy

Davies, D. V., MA Camb., DSc MB BS Prof.

Barnett, C. H., MB BChir Camb., FRCS Reader

Hewitt, W., MB BS Sr Lectr.

## Bacteriology

Hare, R., MD Prof.

## Biochemistry

Young, Leslie, DSc PhD, FRIC Prof.

Thorn, M. R., PhD BSc Reader

## Biology

Hamilton, A. G., BAgr DSc Belf., PhD Reader

Dagby, P. S. B., BA Lectr.

## Cardiology

Jones, E., MD, FRCP

Daley, R., MD Camb., FRCP

## Children's Diseases

Wilson, B. D. R., MB BS, FRCP

## Dental Surgery

Hovell, J. H., FDSRCS

## Dermatology

Wallace, H. J., MA MD Camb., FRCP

## Medicine

Goodby, H. K., MA MD Camb., FRCP

Jones, E., MD, FRCP

Richardson, Sir John S., MVO, MA MD Camb.,

FRCP

Harman, I. B., MA MD Camb., FRCP,

FRCS

Anderson, H. J., MB BChir Camb., FRCP

Sharpey-Schafer, E. P., MB BChir Camb.,

FRCP

Creamer, B., MD, MRCP Prof.

Naylor, P. F. D., MA MD Camb

Mills, I. H., PhD MD, MRCP Reader

## Neurology

Ellington, J. St. C., MA MD Camb., FRCP

Kelly, R. E., MD, FRCP

## Neuro-Surgery

Jackson, H., FRCS

## Obstetrics and Gynecology

Wrigley, A. J., MD, FRCS, FRCOG

Rickford, R. B. K., MD, FRCS, FRCOG

Garland, G. W., MD, FRCOG

Rhodes, P., MA MB BChir Camb., FRCS

## Ophthalmology

Rudley, N. H. L., MA MD Camb., FRCS

## Orthopaedic Surgery

Furlong, R. J., MB BS, FRCS

## Oto-Rhino-Laryngology

Bazerman, G. H., MA BM BChir Camb., FRCS

## Pathology

Curran, R. C., MD Glas., MRCP Prof.

Spencer, H., MD PhD DTM&H, FRCS Reader  
John, R. W. Sr. Lectr.

#### Pathology, Chemical

Griffiths, W. J., BSc PhD  
Prunty, F. T. G., MA MD Camb, FRCP Prof.  
McSwiney, R. R., MB BS Sr. Lectr.

#### Pathology, Clinical

Penniger, J. L., MA DM Oxon, FRCP  
Sr. Lectr., Dir.  
Wetherley-Men, G., MD Camb  
Sr. Lectr., Asst. Dir.  
Ingram, G. I. C., MD Camb., MRCP Sr. Lectr.

#### Pharmacology and Therapeutics

Stacey, R. S., MA MD Camb. Prof.

#### Physics

Cochrane, W., MA BSc PhD Glas. Sr. Lectr.  
Nightingale, A., MA PhD, FIP †Lectr.

#### Physiology

Barcroft, H., MA MD Camb, FRCP, FRS Prof.  
Voss, C. C. N., MSc PhD MB ChB Leadt  
Reader  
Young, I. Mearns, MSc PhD Res. Sr. Lectr.  
Cobbold, A. F., BSc PhD Reader  
Allwood, M. A., MB BS PhD Lectr.

#### Plastic Surgery

Battle, R. J. V., MBE, MA MChir Camb.,  
FRCS

#### Psychiatry

Sargent, W. W., MA MB BChm Camb.,  
FRCP

#### Radiodiagnosis

McLaren, J. W., DMRE Camb., MA, FFR,  
MRCP  
Pierce, J. W., MD, MRCP

#### Radiotherapy

Fleming, J. A. C., MB ChB DR Edin.,  
FRCSEd, FFR

#### Surgery

Barrett, N. R., MA MChir Camb., FRCS  
Mimms, T. W., MB MS, FRCS  
Nevin, R. W., TD, MA MB BChm Camb.,  
FRCS Dean  
Kinmonth, J. B., MS, FRCS Prof.  
Pullan, J. M., MChir Camb., FRCS  
Cockett, F. B., MS, FRCS †Sr. Lectr.  
Lockhart-Mummery, H. E., MD  
MChir Camb., FRCS

#### Thoracic Diseases

Barrett, N. R., MA MChir Camb., FRCS  
Anderson, H. J., MB BChir Camb., FRCP  
Harrison, G. K., MA Camb., MD Tw., FRCS

#### Venerical Diseases

Nicol, C. S., MD, FRCP

## ADMINISTRATIVE AND OTHER STAFF

Librarian. F. A. Tubbs. Radiation Protection Officer. A. Nightingale, MA PhD, FIP

## GENERAL INFORMATION

The sch. was founded in the 13th cent. and is now an incorporated sch. of the Univ. of London. The governing body of the sch. is the sch. council and there is also an advisory academic bd. The pre-med. and pre-clin. depts. are well equipped, and there are full professional units in med. and surg. The hosp. has over 700 beds available for teaching.

St. Thomas's Hosp. and Med. Sch. occupy an extensive site on the south bank of the river Thames, opposite the Houses of Parliament.

**LIBRARY.** Nearly 19,000 med. books and pamphlets. There is an extensive pathol. museum.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted either to 1st MB classes or direct to 2nd MB classes. Women students are accepted up to 15 per cent. of the annual entry.

**FIRST DEGREE.** For students working for

London MB BS, the full 5½-yr. course is provided at the sch. The 3-yr. clin. course at the sch. may also be taken by students who have undertaken their pre-clin. studies at Cambridge or Oxford and are working for Cambridge MB BChir or Oxford BM BCh. Courses also provided for London BSc (spec.) in anat. and in physiol.

**HIGHER DEGREES.** Facilities in form of post-grad. appts. in sch. and hosp. for study for higher degrees in med. and surg.

**OTHER QUALIFICATIONS.** All students enter on a univ. degree basis, the LRCP, MRCS (conjoint qualif. granted by Royal Colls. of Physicians and Surgeons) may be taken in addition if students wish. FRCS (8-wk. full-time advanced revision course).

**STUDY LEAVE.** There is no regular practice for study leave for the staff.

**FEES.** Tuition, £70 p.a.; club sub., £7.75 p.a.

**SCHOLARSHIPS.** Entrance scholps. into the pre-clin. period include 2 open scholps. in nat. sci., value £50 and £40 p.a. for 5 yrs., and 2 Home Counties scholps. in nat. sci., value £50 and £40 p.a. for 5 yrs. For entry into the clin. period there are 2 univ. scholps., value £50 and £40 for 3 yrs. There are many internal scholps. and prizes open for award. Res. facilities and scholps. are available for postgrads.; a scholp. may be awarded annually to enable selected students to take a BSc. hon. degree in physiol. or anat. before proceeding to clin. period. For postgrad. awards, see p. 910.

**STUDENTS' HOSTEL.** St. Thomas's House, Lambeth Palace Rd., London, S.E.1 (tel.

Waterloo 4625). At present there are 34 single rooms available for men only; room and breakfast, £3 per week.

**STUDENT HEALTH SERVICE.** Every student on joining the med. sch. is given a thorough med. exam. and a check is kept on students' health throughout their trg. Weekly clinics are also held for students who wish to have med. advice.

**PUBLICATIONS.** *Prospectus* (annual), *St. Thomas's Hosp. Gazette* (6 times a yr.); *The History of St. Thomas's Hosp.*, by F. G. Parsons, 3 vols., Methuen, 1932 (6p.); *The Story of St. Thomas's 1108-1947*, by Charles Graves, Faber & Faber, 1947, 8s. 6d.

## THE YEAR 1961

**RETIREMENTS.** W. A. Mill (oto-rhino-laryngol.)

**RESIGNATIONS.** Dr. M. S. R. Hatt (clin. pathol.), apptd. to chair of pathol., Makerere U.C.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	358	24
Women	64	—
Total	422	24*

**Distribution by Faculties.** Med., 442; sci., 4. Total, 446.

*Included in the figures above are:—*

Postgraduate students, 24

New admissions, 89 (full-time)

Students from other countries, 30 (Countries from which largest numbers came: S. Rhodesia, 5; Singapore, 4)

**DEGREES AWARDED (1960-61)** MB BS Lond., 25; MD Lond., 2; MS Lond., 1; MB BChir Camb., 26; MD Camb., 4; MChir Camb., 6; BM BCh Oxon., 7; DM Oxon., 1. Total number of first degrees awarded, 58

**DIPLOMAS AWARDED (1960-61)** LRCP, MRCS, 17; MRCP, 4; FRCS, 30; FFARCS, 7; FRCOG, 1; MRCOG, 2; DObstRCOG, 19; FRCSEd, 1; DCh, 2; DA, 3; DMRT, 1; DPM, 2; DTM&H, 4; DLO, 2; DPhysMed, 2; DPH, 2; DHR, 1

\* All postgrad. students attending autumn FRCS course; there is a similar course in the spring.

[Information compiled as at 1/8/62]

## UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL

Founded 1828

**Postal Address:** University Street, London, W.C.1, England  
**Cables and Telegrams:** University College Hospital Medical School,  
University Street, London, W.C.1

**Telephone:** Euston 5861

**CHAIRMAN OF THE SCHOOL COUNCIL—G. R. HOLMAN**

**DEAN—C. W. FLEMING, OBE, DM Chir Oxon., FRCS**

U.K.—ENGLAND (LONDON)

VICE-DEAN—B. J. HARRIS, FRCS

SECRETARY—Major-General H. L. Binks, CB, DSO

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

Anæsthetics		Neurology	
Cope, R. W., FFARCS	† Lectr.	Goody, W. W., MD, FRCP	† Lectr.
Dawkins, C. J., Massey, MA MD Camb., FFARCS	† Lectr.	Obstetrics and Gynaecology	
Lucas, B. G. B., FFARCS	(†)	Flew, J. D. S., MD, FRCOG	† Lectr.
Bacteriology		Nixon, W. C. W., Hon. MD <i>Brist.</i> , MD, FRCS, FRCOG	Prof.
Belyavin, G., MD	Prof.	Ophthalmology	
Stokes, Elizabeth J., MB BS, FRCP	Lectr.	Shapland, C. D., MB BS, FRCS, MRCP	† Lectr.
Dermatology		Groaves, D. P., BSc MB ChB <i>Sheff.</i> , FRCS	† Lectr.
Hare, P. J., MD, MRCP	† Lectr.	Oto-Rhino-Laryngology	
Jarrett, A., MB ChB <i>Birm.</i> , FRCPEd	Reader	Formby, M. L., CBE, TD, MA, FRCS	† Lectr.
Endocrinology		Malling, P. F., FRCS	† Lectr.
Smyth, G. I. M., MA DPhil DM <i>Oxon.</i> , MD <i>Calif.</i> , MRCP	† Lectr.	Wedge, Joan, FRCS	† Lectr.
Forensic Medicine		Pædiatrics	
Miles, R. L., MA MB BChir Camb., MRCP	† Lectr.	Benham-Carter, R. E., MA MB BChir Camb., FRCP	† Lectr.
Geriatrics		Pathology	
Amulree, Rt. Hon. Lord, MA MD Camb., FRCP	† Lectr.	Ridley, D. S., MD	
Medicine		Pathology, Chemical	
Dent, C. E., BSc MD PhD, FRCP, FRS (Human Metabolism)	Prof.	Ramington, C., MA PhD DSc, FRS	Prof.
Harris, K. E., MA MD, FRCP	† Lectr.	Rees, K. R., MSc PhD	Reader
Hawley, J. C., CBE, PhD <i>Birm.</i> , MD, FRCP	† Lectr.	Pathology, Clinical	
Nicholson, H., MD, FRCP	† Lectr.	Mazels, M., MD, FRCP, FRS	Prof.
Pochan, E. E., CBE, MA MD, FRCP	Lectr.	Graves, Eva M.	Lectr.
Prætorius, T. A. J., MD, FRCP	† Lectr.	Flynn, F. V., MD	Lectr.
Rosenheim, M. L., CBE, MA MD, FRCP	Prof.	Pharmacology	
Ross, E. J., MD, MRCP	Lectr.	Laurence, D. R., MD, MRCP	(P. & Therap.) Reader
Rowlands, E. N., MD	Lectr.	Pharmacy	
Stokes, J. F., MD, FRCP	† Lectr.	Whitmet, T. D., PhD BSc, FRIC	† Lectr.
Trotter, W. R., DM <i>Oxon.</i> , MRCP	† Lectr.	Physical Medicine	
Mental Diseases		Burt, H. A., MA MB BChir Camb., FRCP	† Lectr.
Pond, D. A., MA MD Camb., FRCP	† Lectr.	Radiology	
Treagold, R. F., MA MD Camb.	† Lectr.	Hodson, C. J., DMRE Camb., MB BS, FRCP, FFR	† Lectr.
Saddy, K., MD	† Lectr.	Radiotherapy	
Dunkley, E. W., MB BS DPM	Lectr.	Hilton, Mrs. Gwen, CBE, DMRE Camb., BSc MB BS, FRCS, FFR	† Lectr.
Morbid Anatomy		Surgery	
Cameron, Sir Roy, MB BS DSc <i>Med.</i> , LL.D <i>Edin.</i> , FRCP, FRS	Prof.	Davies, D. R., FRCS	† Lectr.
Smith, J. F., MB BChir Camb., MRCP	Reader		
Jarrett, A., MB ChB <i>Birm.</i> , FRCPEd (Dermatol. Histol.)	Reader		

Flemming, C. W., OBE, DM MCh Oxon. FRCS	†Lectr.	Pitcher, R. S., MS, FRCS, MRCP	Prof.
Gardham, A. J., MS, FRCS	†Lectr.	Wolfe, H. R. L., VRD, MS, FRCS	†Lectr.
Harris, B. J., FRCS	†Lectr.	Bunton, G. L., MChir Camb., FRCS	†Lectr.
Matthews, D. N., OBE, MA MD MChin Camb., FRCS	†Lectr.	<b>Venereal Diseases</b>	
Merrington, W. R., MS, FRCS	Lectr.	Thomas, E. G., OBE, VRD, MD, MRCP	
Nightingale, Dorcas, MS, FRCS	†Lectr.		†Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Accountant: A. Morriss, FCA. Admin. Asst: Miss M. L. Moodie.

**GENERAL INFORMATION**

The history of University Coll. Hosp. Med. Sch. is closely bound up with the history of University Coll. From the time of the opening of the coll. in Oct. 1828, until its incorporation in the Univ. of London in 1907, the fac. of med. was governed by the corporation and council of Univ. Coll. Following the National Health Service Act, 1946, the sch. became a body corporate.

The present med. sch. bldgs. were erected in 1907 as the result of funds subscribed by Sir Donald Currie, and the sch. was admitted as a sch. of the univ. in the fac. of med. on Jan. 1, 1907.

**LIBRARY AND MUSEUM.** Gen. library contains about 30,000 books, incl. text-books, books of reference and sets of med. periodicals. The Graham library is a separate collection of books and periodicals, and contains complete sets of British, American, French and German journals of interest to the workers in many branches of med. The Radcliffe Crocker library, which consists of a collection of dermatol. vols., is housed in the Royal Soc. of Medicine library, 1 Wimpole St., London, W.1. The museum of pathol. anat. (curator: W. R. Merrington) contains a collection of med., surg., obstet. and gynæcol. specimens. Microscopic sections of most of the specimens are available for the use of students.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted to the sch. only direct to clin. courses.

**FIRST DEGREE.** The sch. provides clin. trg. only (3-yr. course) for students working for London MB BS or (for those who have undertaken their pre-clin. studies at Cambridge or Oxford) Cambridge MB BChir or Oxford BM

BCh. For students working for London MB BS, pre-clin. course for 2nd MB is provided at University Coll., Lond. The sch. also provides clin. trg. (4 yrs. 1 term) for London BDS (and BDS instruct. provided at University Coll., Lond.)

**HIGHER DEGREES.** Facilities at sch. for study for London MD, MS, MDS, PhD; Cambridge MD, MChir; Oxford DM, MCh.

**OTHER QUALIFICATIONS.** LRCP, MRCS ('joint qualif.' granted by Royal Coll. of Physicians and Surgeons), LDBRCS, in this sch., exams for LRCP, MRCS may ordinarily be taken only by students qualified to take univ. degree after completion of their studies.

**FEES.** For the complete clin. course (Univ. of London), £252; annual composition fee (incl. union membership), £84.

**SCHOLARSHIPS.** One Goldsmid entrance schol., entitling the holder to the final course of med. study; 1 Goldsmid entrance exhibition entitling the holder to a reduction by £126 of the fees due for the full course of final med. study; one Fildes entrance schol. in pathol., entitling the holder to a reduction of £125 of the fees for the full course of final med. study. In addition, schol. and prizes are available to the approx. annual value of £3000.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910.

**RESIDENCE.** Adjoining the med. sch. is a specially equipped hostel solely for students in the sch.

**PUBLICATION.** *Prospectus* (annual)

**THE YEAR 1961****Statistics****STUDENT NUMBERS, 1961-62**

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	224	3
Women	50	1
Total	274	4

Included in the figures above are —

Postgraduate students, 29.

New admissions, 77 (59 m., 18 w.).

Students from other countries, 33. (Countries from which largest numbers came: India, 7; Australia, 4)

**DEGREES AWARDED (1960-61).** MB BS Lond., 57; MD Lond., 5; MB BChir Camb., 11;

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BM BCh Oxon, 9 Total number of first degrees awarded, 77

DIPLOMAS, ETC., AWARDED (1960-61) MRCS,

LRCP, 37 (incl. 27 students who also graduated MB BS), MRCP, 9; FRCS, 7, DOBACOG, 12

## UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL

DIRECTOR OF DENTAL DEPARTMENT—Professor A. S. PROPHET, DDS DipBact Manc., FDSRCS (Dent. Surg.)

### APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anaesthetics		Jurisprudence	
Hudson, M. W. P., MB BS, MRCP, FFARCS	†Lectr.	Miles, R. I., MA MB BChir Camb., MRCP	Lectr.
Anatomy		Medicine	
Young, J. Z., MA Oxon., DSc Brit., FRSE	Prof.	Frankel, T. A. J., MD, FRCP	†Lectr.
Bacteriology		Orthodontics	
Belyavin, G., MD	Prof.	Grossmann, W., MD Prague	†Lectr.
Dental Materials		Pathology	
Thorp, H. W., BSc	(†)	Cameron, Sir Roy, MB BS DSc Med., LL.D. Edin., FRCP, FRSE	Prof.
Dental Surgery		Pharmacology	
Balderson, W. B., LDS Glas.	†Lectr.	Whittet, T. D., PhD BSc, FRIC	†Lectr.
Green, C. de V., DDS Tor., FDSRCS	†Lectr.	Prosthetics	
Prophet, A. S., DDS DipBact Manc., FDSRCS	Prof.	Everett, A. E.	Lectr.
Schofield, J., FDSRCS	†Lectr.	Surgery	
Messing, J. J., BDS, FDSRCS	Lectr.	Matthews, D. N., OBE, MA MD MChir Camb., FRCS	†Lectr.
Human Metabolism		Buntan, G. L., MChir Camb., FRCS	†Lectr.
Dent, C. E., BSc PhD MD, FRCP, FRSE	Prof.		

### ADMINISTRATIVE AND OTHER STAFF

Accountant: A. Morris, FCA. Admin. Asst.: Miss M. L. Moodie.

### GENERAL INFORMATION

The National Dental Hosp. was amalgamated with Univ. Coll. Hosp. in 1954, and the dent. sch. was recog. by the Univ. of London. The sch. carries out courses of study for the degree of BDS Lond., and is open equally to men and women.

Students are not eligible to commence until they have passed the 1st MB Lond.

Fees: Annual composition fee (incl. union membership), £84.

PUBLICATION: *Prospectus* (annual).

### THE YEAR 1961

#### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	83	2
Women	25	—
Total	108	2

Included in the figures above are:—

Postgraduate students, 2.

New admissions, 22 (18 m., 4 w.).

Students from other countries, nil.

DEGREES AWARDED (1960-61). BDS Lond., 16.

DIPLOMAS AWARDED (1960-61). LDSRCS, 26 (incl. 16 students who also graduated BDS).

[Information compiled as at 1/3/62]

## WESTMINSTER MEDICAL SCHOOL

Founded 1834

Postal Address: Horseferry Road, Westminster, London, S.W.1, England

Cable and Telegrams: Westminster Medical School, London, S.W.1

Telephone: Victoria 6041-2

CHAIRMAN—THE LORD FLECH, KBE, FRSE

DEAN—R. I. S. BAYLESS, MD, FRCP

SUB-DEAN—J. B. WYMAN, MBE, FFARCS

SECRETARY—W. R. MOULE, MA Camb.

## APPOINTED AND RECOGNIZED TEACHERS

<b>Anæsthetics</b>		Evans, A. B., MB BChir Camb., FRCS, FRCOG
Organs, G. S. W., MD Camb., FFARCS		de Vere, R. D., FRCS
Jarmen, R., DSC, FDSRCS		<b>Ophthalmology</b>
Wyman, J. B., MBE, FFARCS		King, E. F., MB ChB Brit., FRCS
Scurr, C. F., MVO, MB BS, FFARCS		Trevor-Roper, P. D., MD Camb., FRCS
Lewis, C. B.		<b>Orthopaedics</b>
<b>Bacteriology</b>		Harding, H. R., FRCS
Lecky, B. W., MD BSc	Prof.	<b>Pædiatrics</b>
<b>Dental Surgery</b>		Anderson, I. M., MD Glas., FRCP
Taylor, R. S., OBE, TD, FDSRCS		Levi, D., MS, FRCS
Steadman, B. St. J., TD, BDS		Colet, H. M. T., MD, MRCP
<b>Dermatology</b>		<b>Pathology, Chemical</b>
Franklin, J. L., MA BChir MD Camb.		Maclean, N. F., MD DSc, FRCP, FRIC
Semmes, P. D., MA MD Camb., MRCP		Watkinson, J. H., BSc PhD, FRIC
<b>Ear, Nose and Throat Surgery</b>		Reader
Askeroff, D. W., MB ChB N.Z., FRCS		<b>Pathology, Clinical</b>
Foxen, E. H., FRCS		Dawson, I. M. P., MD Camb., MRCP
<b>Hematology</b>		Reader
Humble, J. G., CVO	Sr. Lectr.	<b>Psychiatry</b>
<b>Medicine</b>		Garmey, G., MB ChB Manc., FRCP
Meadows, S. P., BSc MD, FRCP		<b>Radiology</b>
Gavey, C. J., MD, FRCP		Kesley, P. J., CVO, CBE, MD N.U.I.,
Hart, P. D., MD Edin., FRCP		DMRE Camb., FRCP
Tonkin, R. D., MD		<b>Surgery</b>
Bayless, R. I. S., MD, FRCP		Lee, E. S., MS, FRCS
Milne, M. D., MD, FRCP	Prof.	Macnab, G. H., MB ChB Edin., FRCS
<b>Morbid Anatomy</b>		d'Abreu, F. A., ChM Birm., FRCS
Morgan, A. D., MA MD ChB Aberd.	Prof.	Raven, R. W., OBE, FRCS
MacKenzie, D. H., MA MD Camb.		Aylett, S. O., MBE, FRCS
<b>Obstetrics and Gynaecology</b>		Reidy, J. P., MB BChir Camb., FRCS
Bell, A. C. H., MB BS, FRCS, FRCOG		Drew, C. E., MVO, MB BS, FRCS
		Cox, R., MBE, FRCS
		Ellis, H., MCh DM Oxon., FRCS

U.K.—ENGLAND (LONDON)



## ADMINISTRATIVE AND OTHER STAFF

Chaplain, Rev. D. L. Francis Supervisor of Students' Health Service P. A. Emerson, MD

Care, MRCP, Managers of Students' Hostel: Miss J. Fayer

## GENERAL INFORMATION

Westminster Hosp. was instituted in the year 1719, and incorporated by act of parliament in 1836. A med. sch. has existed in Westminster since 1834, but was not brought into formal connexion with the hosp. until 1849. The new and enlarged sch. was completed in May 1939 in order to meet the demands of the latest developments in med. education.

**CONSTITUTION.** Westminster Med Sch. is a sch. of the Univ. of London. Its government is vested in the governing body of the sch. called the council.

**LIBRARY.** 5770 vols.; 79 current periodicals; 2000 bound vols. of periodicals.

**MUSEUM.** 4000 specimens, illustrating all branches of human pathology.

**TEACHING HOSPITALS.** Students receive their clin. trg. in the hosp. of the Westminster Hosp. teaching group, which consists of Westminster H., the Westminster Children's H., the Gordon H. and All Saints' H.

**ADMISSION.** See p. 1066 and Appendix III. Students admitted to the sch. only direct to clin. courses, but application should be made to the sch. for pre-clin. vacancies at King's Coll. and University Coll. (see below under 'First Degrees').

**FIRST DEGREE.** The sch. provides clin. trg. only (3-yr. course) for students working for London MB BS or (for those who have undertaken their pre-clin. studies at Cambridge or Oxford) Cambridge MB BChir and Oxford BM BCh. For students working for London MB BS, pre-clin. course for MB is provided at King's Coll., Lond., and at University Coll., Lond.

**HIGHER DEGREES.** No facilities provided for study for higher degrees.

**OTHER QUALIFICATIONS.** LRCP, MRCS ('conjoint qualif.' granted by Royal Colls. of Physicians and Surgeons); in this sch. exams for LRCP, MRCS may usually be taken only by students intending to take univ. degree in med.

**COURSES NOT LEADING TO A QUALIFICATION.** 3-month part-time course in oral surg. and exodontia.

**FEEs.** Registration fee, £5 '5s.; annual tuition fee (incl. membership of students' union), £75.

**SCHOLARSHIPS.** Four scholships, each of the value of £40 p.a. for 3 yrs., are awarded on the result of an exam. held in May of each yr. in 1st yr. subjects. 4 scholships of similar value are also awarded annually as the result of exams in anat. and physiol. held in April and Sept. The David de Sousa scholship of the value of £40 p.a. is awarded on the results of an exam. in appl. physiol. held in March; this award is for 4 terms, for the BSc spec. course in physiol. after pre-clin. studies.

**POSTGRADUATE AWARDS** open to grads. of other univs.; see p. 910.

**STUDENTS' RESIDENCE.** Hostel for men students at Brabazon House, 5 Merton St., S.W. 1, provides accomm. for some 70 students. Fees, £1-15s. per wk. for a single room and £3-15s. per wk. for a cubicle, with morning, evg. and wk.-end meals.

**STUDENTS' HEALTH SERVICE.** There is a students' health service and all students are seen on admission by the physician in charge.

**ATHLETIC FACILITIES.** The sch.'s sports ground is at Cobham, Surrey. Pitches for rugby union football, assoc. football, hockey and cricket; also new pavilion and 6 tennis courts.

**STUDENTS' UNION.** The students' union incl. clubs covering rugby union football, assoc. football, athletics, boating, chess, cricket, lawn tennis, hockey, golf, fencing, squash racquets and sailing. The refectory ettec., responsible to the students' union, is in charge of the sch. refectory.

**PUBLICATIONS.** *Prospectus*, biennial. *The Broad Way* (students'), 4 times a yr.

## THE YEAR 1961

## Statistics

## STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	142	7
Women	27	2
Total	169	9

Included in the figures above are—

Postgraduate students, 20.

New admissions, 41.

Students from other countries, 12. (Countries from which largest numbers came: Hong Kong, 3).

**DEGREES AWARDED (1960-61)** *Med.* MChir Camb., 1; MD Camb., 1; MB BS Lond., 17; MB BChir Camb., 16; BM BCh Oxon., 2. *Sci.* PhD, 1.

**LICENTIATESHIPS, ETC., AWARDED (1960-61)** MRCS, LRCP, 31.

# POSTGRADUATE MEDICAL SCHOOLS

(Information compiled as at 11/7/62)

## BRITISH POSTGRADUATE MEDICAL FEDERATION

Founded 1945

Postal Address of Central Office: 18 Guilford Street, London, W.C.1, England

Cables and Telegrams: Britgradmed, London

Telephone: Holborn 2716

CHAIRMAN OF GOVERNING BODY—The Rt. Hon. THE LORD COTTRELL, GBE, TD, MA *Comm.*

DIRECTOR—Professor Sir JAMES PATRICKSON ROSS, Bt, KCVQ, Hon. LLD *Glas.*, MB, FRCS

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Note.—In the following list the names of the institutes are indicated by letters thus:

Institute of Basic Medical Sciences (BMS)  
Institute of Cancer Research (CR)  
Institute of Cardiology (C)  
Institute of Child Health (CH)  
Institute of Dental Surgery (DS)  
Institute of Dermatology (D)  
Institute of Diseases of the Chest (DC)  
Institute of Laryngology and Otology (LO)

Institute of Neurology (N)  
Institute of Obstetrics and Gynaecology (OG)  
Institute of Ophthalmology (Op)  
Institute of Orthopaedics (Orth)  
Postgraduate Medical School of London (PM)  
Institute of Psychiatry (Psy)  
Institute of Urology (U)

### Anæsthetics

Heard, A. J. W., MD, FFARCS †Lectr. (PM)  
Heaver, R. A., FFARCS †Lectr. (N)  
Cope, R. W., FFARCS †Lectr. (CH)  
Goldman, V., FFARCS †Lectr. (DS)  
Lucas, B. G. B., FFARCS †Lectr. (DC)  
Nunn, J. F., PhD *Birm.*, FFARCS †Lectr. (PM)

Payne, J. P., FFARCS Lectr. (PM)  
Steel, G. C., FFARCS †Lectr. (OG)  
Woodfield-Davies, H., FFARCS †Sr. Lectr. (PM)

### Anatomy

Causey, G., MB ChB *Lie.*, FRCS  
Sir Wilfrid Collins Prof. (BMS)  
East, R. J., MB BS *Adel.*, FRCS Sr. Lectr.

**Biochemistry**

- Boydell, E., DSc *Med*, PhD Prof (CR)  
 McDougall, H., DSc PhD *Dent* Prof (Pay)  
 Elson, L. A., PhD Reader (CR)  
 Long, C., MA BSc DPhil *Oxon* Reader (BMS)  
 Dalgliesh, C. E., MA PhD *Cam* Sr. Lectr (FM)  
 Longman, I. S., MB BChir *Cam* Sr. Lectr (DC)  
 Rednight, R. W., BSc PhD Lectr (Pay)  
 Sommerville, I. F., PhD MD *Edin* Lectr. (OG)

**Biophysics**

- Hill, D. K., MA *Cam* Sr. Lectr (PM)  
 Belcher, E. H., MA *Cam*, PhD Sr. Lectr (PM)

**Chemistry**

- Bergel, F., DPhil *Freib.*, PhD DSc, FRSE Prof (CR)  
 Butler, J. A. V., DSc, FRSE (Phys. C.) Prof. (CR)  
 Ambrose, E. J., MA *Cam* (Phys. C.) Reader (CR)  
 Roe, Edna M. F., BSc PhD (Spectroscopy) Reader (CR)  
 Ross, W. C. J., DSc PhD Reader (CR)  
 Timms, G. M., MSc *Man.*, FRIC Reader (CR)

**Children's Diseases**

- Moncreiff, A. A., CBE, MD, FRCP, FRCOG Nuffield Prof. (CH)  
 Tanner, J. M., MD *Pen.*, PhD DSc MB BS DPM (Child Health & Growth) Reader (CH)  
 Tizard, J. P. M., MA BM BCh *Oxon* Reader (CH)  
 Black, J. A., MD *Cam*, MRCP Sr. Lectr (CH)  
 Bonham-Carter, R. E., MA MB BChir *Cam*, FRCP †Lectr. (CH)  
 Dehls, R. H., MD *Cam*, FRCP †Lectr. (CH)  
 Evans, P. R., MD MSc *Man.*, FRCP †Lectr. (CH)  
 Franklin, A. W., MA MB BChir *Cam*, FRCP Lectr. (OG)  
 News, G. H., MD, FRCP †Lectr. (CH)  
 Norman, A. P., MA MD *Cam*, FRCP †Lectr. (CH)  
 Sheldon, Sir Wilfred P. H., KCVO, MD, FRCP †Lectr. (CH)  
 Withers, Mary J., MD, FRCP †Lectr. (CH)

**Dental Surgery**

- Ballard, C. F., FDSRCS (Orthod.) Prof. (DS)  
 Killey, H. C., FDSRCS (Oral Surg.) Prof. (DS)  
 Bendlaw, R. V., CBE, MDS *Durh.*, FRCS, FDSRCS (Oral Med.) Prof., Dir. (DS)  
 Aldrich, W. A., MDS, FDSRCS Sr. Lectr (DS)  
 Cross, W. O., MB MS BDS †Sr. Lectr (DS)  
 Marrant, G. A., DDS Sr. Lectr. (DS)  
 Stephens, R. R., BDS Sr. Lectr. (DS)  
 Lee, J. H., LDS Sr. Lectr. (DS)

- Lawson, A. L., BDS, FDSRCS |Lectr. (DS)  
 Mills, J. R. E., MSc *Man.*, FDSRCS †Lectr. (DS)

**Dermatology**

- Calnan, C. D., MA MB BChir *Cam*, MRCP Prof. (D)  
 Magnus, I. A., MB BChir *Cam*, MRCP Sr. Lectr. (D)  
 Wells, G. C., MB BChir *Cam*, FRCP |Sr. Lectr. (D)  
 Betley, F. R., MD, FRCP †Lectr. (D)  
 Forman, L., MD, FRCP †Lectr. (D)  
 Gold, S. C., MD *Cam*, FRCP †Lectr. (D)  
 Mitchell-Heggs, G. B., OBE, TD, MD, FRCP †Lectr. (D)  
 Russell, B. F., MD, FRCP †Lectr. (D)  
 Samman, P. D., MA MD *Cam*, MRCP †Lectr. (D)  
 Wallace, H. J., MD *Cam*, FRCP †Lectr. (D)

**Genetics**

- Koller, P. C., BSc PhD *Ind.*, DSc *Edin* (Cytogenetics) Prof. (CR)  
 Lawler, Sylvia D., MD (Immunogenetics) Lectr. (CR)

**Hygiene and Public Health**

- Roberts, J. A. F., MA *Cam*, DSc MD ChB *Edin*, FRCP †Lectr. (CH)

**Medical Statistics**

- Cox, R. A. M., MD ChB PhD *Birm.* Sr. Lectr. (CR)  
 Maxwell, A. E., PhD *Edin* Sr. Lectr. (Pay)

**Medicine**

- Bywaters, E. G. L., MB BS, FRCP (Rheumatol.) Empire Rheumatism Council Prof. (PM)  
 Fraser, T. R., MD N.Z., FRCP (Can. Endocrinol.) Prof. (PM)  
 McMichael, J., MD Hon. LL.D. *Edin.*, FRCP, FRSE Prof. (PM)  
 Cope, C. L., BM BCh *Oxon*, FRCP (Metabolic Dis.) Reader (PM)  
 Bignall, J. R., MD *Cam*, FRCP †Sr. Lectr. (DC)  
 Fletcher, C. M., MA *Cam*, MD, FRCP Sr. Lectr. (PM)  
 Goodwin, J. F., MD †Sr. Lectr. (PM)  
 Harrison, A. R., MD, MRCP Sr. Lectr. (U)  
 McDonald, E. L., MD *Cam*, MRCP (C)  
 Paps, J., MB ChB *Edin*, MRCP |Sr. Lectr. (DC)  
 Prime, F. J., MD *Durh.* Sr. Lectr. (DC)  
 Scadding, J. G., MD, FRCP †Dir. (DC)  
 Shillingford, J. F., MD, FRCP †Sr. Lectr. (PM)  
 Wood, P. H., OBE, MD *Med.*, FRCP †Dir. (C)

**Lecturers**

- Barnes, C. G., MD, FRCP †(OG)  
 Behrman, S., BSc †(Op)  
 Bishop, P. M. F., BA DM *Oxon* †(OG)

Brooks, W D W, CBE, DM Oxon., FRCP		Pinkerton, J. H. M., MD Baf., FRCOG	Prof.
Gavey, C. J., MD, FRCP	†(DC)	MacGregor, W. G., MD BS Melb., FRCS, FRCOG	Reader
Hawkesley, J. C., CBE, PhD Biru, MD, FRCP	†(Op)	Murdoch, J. D., MB ChB N.Z., FRCSed	
Lander, F. P. Lee, OBE, MD, FRCP	†(U)	Arthur, H. G. E., MD, FRCS, FRCOG	Sr Lectr.
Livingstone, J. L., MD, FRCP	†(DC)	Bell, A. C. H., MB BS, FRCS, FRCOG	†Lectr.
Macpherson, Alice M. C., MD, FRCP	†(DC)	Blunkley, J. B., MB BS, FRCS, FRCOG	†Lectr.
Meadows, S. P., BSc Lev, MD, FRCP	†(Op)	Clayton, S. G., MD MS, FRCS, FRCOG	†Lectr.
Nasum, J. R., MA BM BCh Oxon., FRCP	†(Orth)	Dixon, H. G., MB BS, MRCPed	Lectr.
Nicholson, H., MD, FRCP	†(DC)	Evans, A. B., MB BChr Camb., FRCS, FRCOG	†Lectr.
Oswald, N. C., TD, MD Camb., FRCP	†(DC)	Feroze, R. M., MD, FRCS, FRCOG	†Lectr.
Plummer, N. S., MD, FRCP	†(DC)	Fleming, Amy, MD Glas., FRCOG	†Lectr.
Robson, K., CBE, MD Camb., FRCP	†(DC)	Flew, J. D. S., MD, FRCOG	†Lectr.
Rusby, N. L., DM Oxon., FRCP	†(DC)	Gibberd, G. F., MS, FRCS, FRCOG	†Lectr.
Stuart, J., MD Camb., FRCP	†(DC)	Jackson, I. M., MB BChr Camb., FRCS	†Lectr.
Stevenson, F. H., MD	†(Orth)	Lewis, T. L. T., MB BChr Camb., FRCS	†Lectr.
<b>Mental Diseases (Psy)</b>		Rickford, R. B. K., MD, FRCS, FRCOG	†Lectr.
Lewis, Sir Aubrey J., MD Adel, FRCP	Prof	Robinson, Kathleen M., MD, FRCS, FRCOG	†Lectr.
Shepherd, M., DM BCh Oxon.	Reader	Wynn-Williams, G., MB BS, FRCS	†Lectr.
Ackner, B. G. C., MD Camb., DPM, MRCP	†Lectr.	<b>Ophthalmology (Op)</b>	
Blocker, C. P., MA, FRCP	†Lectr.	Peckins, E. S., MB BS, FRCS	Reader
Cameron, K., MB ChB Edin., FRCPed	†Lectr.	Jones, B. R., MB ChB N.Z., FRCS	Sr Lectr.
Creak, Elizabeth M., MD DPM, FRCP	†Lectr (CH)	Wybar, K. C., ChM MD Glas., FRCS	†Sr Lectr.
Devies, D. L., MA DM Oxon.	†Lectr.	Ainslie, D., MD Camb., FRCS	†Lectr.
Gibbens, T. C. N., BA MD Camb., DPM	†Lectr.	Ayoub, J. E. M., BM BCh Oxon., FRCS	†Lectr.
Gillespie, W. H., MD Edin., MRCP	†Lectr.	Cook, C. A. G., MC, GM, FRCS	†Lectr.
Hare, E. H., MD Camb.	†Lectr.	Cross, A. G., MA MD Camb., FRCS	†Lectr.
Leigh, A. D., MD Monr., FRCP	†Lectr.	Duggart, J. H., MA MD Camb., FRCS	Lectr.
Pend, D. A., MA MD Camb., FRCP	†Lectr.	Duke-Elder, Sir Stewart, KCVO, MA MD DSc St And., PhD, FRCS, FRS	†Dir.
Pox, T., MB BS, MRCP	†Lectr.	Goldsmith, A. J. B., MB BS, FRCS	†Lectr.
Rene, W. L. L., BSc MD Wales, MRCP	†Lectr.	Greaves, D. P., MB ChB Sheff., FRCS	†Lectr.
Scott, P. D., MA MD Camb.	†Lectr.	Hudson, J. R., MB BS, FRCS	†Lectr.
Slater, E. T. O., MA MD Camb., FRCP	†Lectr.	King, E. F., MB ChB Brst., FRCS	†Lectr.
Stafford-Clark, D., MD DPM, MRCP	†Lectr.	Law, F. W., MA MD Camb., FRCS	†Lectr.
Taylor, F. K., MD Prague, DPM	†Lectr.	Leigh, A. G., MD Lio., FRCS	†Lectr.
Warren, W., MD Camb.	†Lectr.	Lister, A., MB BChr Camb., FRCS	†Lectr.
<b>Microbiology</b>		Lyle, T. K., CBE, MA MD MChir Camb., MRCP, FRCS	†Lectr.
Loveless, A., BSc PhD	Sr. Lectr (CR)	Miller, S. J. H., MD Aberd., FRCS	†Lectr.
<b>Neurology (N)</b>		Moffatt, F. McG., MD DOMS DPH, FRCS	†Lectr.
Gallist, R. W., DM Oxon., FRCP	(Clin N.) Prof	Rudley, F. T., BSc MB BS, FRCS	†Lectr.
Marshall, J., MD Monr., DPM, MRCP	(Clin N.) Reader	Rudley, N. H. L., MA MD Camb., FRCS	†Lectr.
Branton, D. H., DM Oxon., FRCP	†Lectr	Shapland, C. D., MD BS, FRCS, MRCP	†Lectr.
Crestchley, M., MD Bant., FRCP	†Lectr	Stallard, H. B., MBE, MD Camb., Hon LL.D St And., FRCS	†Lectr.
Dunstable, Mrs. Helen E., MA MD Camb., FRCP	†Lectr.	Treves-Roper, F. D., MD Camb., FRCS	†Lectr.
Goody, W. W., MD, FRCP	†Lectr.	<b>Orthopaedics (Orth)</b>	
Henson, R. A., MD, FRCP	†Lectr.	Burrows, H. J., MA MD Camb., FRCS, FRACS	†Lectr.
Kelly, R. E., MD, FRCP	†Lectr.	Cholmeley, J. A., MB BS, FRCS	†Lectr.
Meadows, S. P., BSc Liv., MD, FRCP	†Lectr.	Frupp, A. T., MB BCh Oxon., FRCS	†Lectr.
Williams, D. J., CBE, DSc MD Monr., FRCP	†Lectr.	Lloyd-Roberts, G. C., MB BChr Camb., FRCS	†Lectr. (CH)
<b>Obstetrics and Gynaecology (OG)</b>		Nissen, K. I., BSc MB ChB N.Z., MD, FRCS	†Lectr.
Brown, J. C. McC., BSc MB BS, FRCOG, FRCSed	Prof.	Newman, P. H., DSO, MC, FRCS	†Lectr.

Seddon, H. J., MA DM Oxon., MB BS, FRCS  
 Trevor, D., MB MS, FRCS  
 Wilson, J. N., MB ChM Barn., FRCS

†Dir.  
 †Lectr.  
 †Lectr.

### Oto-Rhino-Laryngology

Harrison, D. F. N., MD MS, FRCS  
 (Laryngol.) Reader (LO)  
 McLay, K., MB ChB Edu., FRCSed  
 (Otol.) Reader (LO)  
 Asherson, N., MB BS, FRCS †Lectr. (LO)  
 Cawthorne, T., FRCS †Lectr. (N)  
 Ellis, M. P., MD MS, FRCS †Lectr. (LO)  
 Hallpike, C. S., CBE, MB BS, FRCS, FRCP †Lectr. (N)  
 Hogg, J. C., CVO, MA MB BChir Camb., FRCS †Lectr. (LO)  
 Howells, G. H., MB BS, FRCS †Lectr. (LO)  
 McKean, W. S., BA MB BChir Camb., FRCS †Lectr. (LO)  
 Redcliffe, A., BA MB BCh Dub., FRCS †Lectr. (LO)

### Pathology and Bacteriology

Ashton, N. H., DSc, MRCP (Pathol.) Prof. (Op)  
 Blackwood, W., MB ChB Edu., FRCSed, MRCPed (Neuropathol.) Prof. (N)  
 Cumings, J. N., MD, FRCP (Chem. P.) Prof. (N)  
 Cunningham, G. J., MBE, MD (Pathol.) Sir William Collins Prof. (BMS)  
 Dacie, J. V., MD, FRCP (Haematol.) Prof. (PM)  
 Daniel, P. M., MB BChir Camb., DM Oxon. (Neuropathol.) Prof. (Pay)  
 Haddow, A., MD DSc PhD Edu., FRCS (Exper. P.) Prof. (CR)  
 Harrison, C. V., MD BSc Wales (Morbid Anat.) Prof. (PM)  
 King, E. J., MA McM., PhD Tor. (Chem. P.) Prof. (PM)  
 Kramer, I. R. H., MDS (Oral P.) Prof. (DS)  
 Stamp, Rt. Hon. Lord, MA MB BChir Camb. (Bacteriol.) Prof. (PM)  
 Barber, Mary, MD (Clin. Bacteriol.) Reader (PM)  
 Davies, J. N. P., MD Brst (Morbid Anat.) Reader (PM)  
 Fotherby, K., BSc Lev., PhD Edin (Chem. P.) Reader (PM)  
 Leck, C. H., MB BS Syd. (Bacteriol.) Reader (Orth)  
 Friedmann, I., MD Prague, DCP (Bacteriol.) Reader (LO)  
 Pearce, A. G. E., Hon MD Brst, MA MD Camb., DCP (Pathol.-Histochem.) Reader (PM)  
 Roe, F. J. C., MA DM BCh Oxon (Exper. P.) Reader (CR)  
 Sissons, H. A., MB BS Melb. (Morbid Anat.) Reader (Orth)  
 Walker, P. G., BSc MB ChB Edu., PhD Aberd. (Chem. P.) Reader (Orth)  
 Wootton, I. D. P., MB BChir Camb., PhD (Chem. P.) Reader (PM)

Blake, C. G., MB BS, FDSRCS (Dental Bacteriol.) †Sr Lectr. (DS)  
 Brierley, J. B., MD ChB Brst. †Sr Lectr. (Pay)  
 Gowling, N. F. C., MD †Sr Lectr. (CR)  
 May, J. R., MD Camb. †Sr Lectr. (DC)  
 Mitchison, D. A., BA MB BChir Camb. †Sr Lectr. (PM)  
 Pedler, C. M. H., MB BS PhD †Sr Lectr. (Op)  
 Reid, Lynne MacA., MB BS Melb., MRCP †Sr Lectr. (DC)  
 Walter, J. B., MD, MRCP †Sr Lectr. (BMS)  
 White, J. C., MB ChB Brst. †Sr Lectr. (PM)  
 Bodan, M., MD Praes., DCP †Lectr. (CH)  
 Claisseaux, A. E., MD †Lectr. (OG)  
 Clayton, Barbara E., PhD MD ChB Edin. †Lectr. (CH)  
 Dudgeon, J. A., MD Camb. †Lectr. (CH)  
 Ferreira, H. P., MD †Lectr. (OG)  
 Haines, R. M., MD †Lectr. (OG)  
 Hardisty, R. M., MD, MRCP †Lectr. (CH)  
 Heard, B., MD Wales, MRCP †Lectr. (PM)  
 Hinson, K. F. W. †Lectr. (DC)  
 Hudson, R. E. B., BPharm MD †Lectr. (C)  
 Kuper, S. W. A., MB BCh Rand, DCP †Lectr. (DC)  
 Levin, B., PhD MD †Lectr. (CH)  
 MacIntyre, I., MB ChB Glas., PhD †Lectr. (PM)  
 McMenemey, W. H., DM Oxon., FRCP †Lectr. (N)  
 Molin, D. L., BSc MB BCh Wales †Lectr. (PM)  
 Murray, J., MD Camb. †Lectr. (OG)  
 Pugh, R. C. B., MD BS †Lectr. (U)  
 Riddell, R. W., MD, FRCPed †Lectr. (DC & D)  
 Sandler, M., MB ChB Manc., MRCP †Lectr. (OG)

### Pharmacology

Barr, G. V. R., DPhil Oxon., MB ChB Edu. Vandervell Prof. (BMS)  
 Vane, J. R., BSc DPhil Oxon. Reader (BMS)

### Physics

Mayneord, W. V., CBE, DSc Brst., FIP Prof. (CR)  
 Lemerton, L. F., MSc PhD, FIP (Biophys. as appl. to Med.) Prof. (CR)  
 Trott, N. G., BSc PhD, FIP †Sr Lectr. (CR)  
 Turner, R. C., BSc PhD †Sr Lectr. (CR)  
 Mallard, J. R., BSc PhD †Lectr. (PM)

### Physiology

Goldacre, R. J., MSc Syd., PhD (Cell P.) Reader (CR)  
 Slome, D., MA PhD MB ChB Cape T. †Dir. (BMS)  
 Dawson, G. D., MSc MB ChB Manc. (Neurophysiol.) †Sr Lectr. (Pay)  
 Weale, R. A., PhD DSc †Sr Lectr. (Op)  
 Pampiglione, G., MD Rome, MRCP (Neurophysiol.) †Lectr. (CH)

### Psychology

Eysenck, H. J., BA PhD Prof. (Pay)  
 Shapiro, M. B., MA Rhod. Reader (Pay)

Gwynne Jones, H., BSc	Sr. Lectr. (Psy)	Wallace, D. M., MS, FRCS	†Sr Lectr. (U)
Broadhurst, F. L., MA <i>Stat.</i> , PhD		Radnoch, A. W., MA MD ChM <i>Aberd.</i> , FRCS	†Lectr. (U)
Granger, G. W., BA PhD	Sr. Lectr. (Psy) Lectr. (Psy)	Barrett, N. R., MB MChir Camb., FRCS	Lectr. (DC)
<b>Radiobiology</b>		Bentall, H. H., MB BS, FRCS	Lectr. (PM)
Alexander, P., BSc PhD	Sr. Lectr. (CR)	Brock, Sir Russell C., MS, FRCS	†Lectr. (DC)
<b>Radiology</b>		Cleland, W. P., MB BS <i>Add.</i> , FRCS	†Dir. (DC)
Smithers, D. W., MD Camb., DMR, FRCP, FFR	Prof. (CR)	Ferguson, J. D., MA MD Camb., FRCS	†Lectr. (U)
Steiner, R. E., MD Dub., MRCP, FFR	(Dng. R.) Prof. (PM)	Hanley, H. G., MD, FRCS	†Lectr. (U)
Bull, J. W. D., MA MD Camb., DMR, FRCP, FFR	†Lectr. (N)	Heanley, C. L., MA MB, FRCS	†Lectr. (LO)
Golding, F. C., MB ChM Syd., DMRE Camb., FRCP, FFR	†Lectr. (Orth)	Jackson, H., FRCS	†Lectr. (N)
Lederman, M., DMRE Camb., MB BS, FFR	Sr. Lectr. (CR)	Kilpatrick, F. R., MB MS, FRCS	†Lectr. (U)
Laws, J. W., MB ChB <i>Sheff.</i> , MRCP, FFR	†Lectr. (PM)	Macnab, G. H., MB ChB <i>Edin.</i> , FRCS	†Lectr. (CH)
Stevenson, J. J., MD <i>Edu.</i> , DMR	†Lectr. (U)	Martin, P. G. C., MA MB MChir Camb., FRCSed	†Lectr. (PM)
Sutton, D., MD, MRCP, FFR	†Lectr. (N)	Matthews, D. N., OBE, MA MD MChir Camb., FRCS	†Lectr. (CH)
Williams, E. R., DMRE Camb., MD, FRCP, FFR	†Lectr. (OG)	McKissock, W. OBE, MB MS, FRCS	†Lectr. (N)
<b>Surgery</b>		Morris, A. K., MA MD BChir Camb., FRCS	†Lectr. (PM)
Aird, I., MB ChB <i>Edin.</i> , FRCSed	Prof. (PM)	Nixon, H. E., MB BChir Camb., FRCS	†Lectr. (CH)
Shackman, R., MB BS, FRCS	(Urol.) Prof. (PM)	Rees, H., MA BM MCh <i>Oxon.</i> , FRCS	†Lectr. (U)
Wilkinson, A. W., ChM <i>Edin.</i> , FRCSed	(Med S.) Nuffield Prof. (CH)	Sandrey, J. G., MB ChM Syd., FRCS	†Lectr. (U)
Dempster, W. J., FRCSed	(Exper. S.) Reader (PM)	Sellers, T. H., DM MCh <i>Oxon.</i> , FRCS	†Lectr. (DC)
Melrose, D. G., MA BM BCh <i>Oxon.</i>	(Clin. Rheology) Reader (PM)	Stephenson, W. H., FRCSed	Lectr. (PM)
Franklin, R. H., MB BS, FRCS	†Sr. Lectr. (PM)	Taylor, S. F., MA BM MCh <i>Oxon.</i> , FRCS	†Lectr. (PM)
Gray, C. H., BSc MB ChB <i>Manch.</i> , FRCS	†Sr. Lectr. (PM)	Thompson, V. C., MB BS, FRCS	†Lectr. (DC)
Knight, G. C., MB BS, FRCS	†Sr. Lectr. (PM)	Tubbs, O. S., MB BChir Camb., FRCS	†Lectr. (DC)
		Waterston, D. J., MBE, MB ChB <i>Edin.</i> , FRCS	†Lectr. (CH)
		Williams, D. I., MA MD MChir Camb., FRCS	†Lectr. (CH & U)

## ADMINISTRATIVE AND OTHER STAFF

STAFF OF CENTRAL OFFICE. Asst. Dir. C. F. Hamdon-Turner, MA DM BCh *Oxon.*; K. A. T. Martin, MD ChB *Edin.*, DPH (pt-time). Secretary of Central Office. A. Yvonne Champaloup, MBE, BA N.Z. Accountant. H. Leslie Smith, FCA. Regional Advisers in Postgrad Education. Metropolitan Hosp. Regions—Medical: N.E.

Region, D. F. Ellison Nash, FRCS, S.E. Region, A. A. G. Lewis, MD, FRCP; N.W. & S.W. Regions, D. C. Bowie, OBE, MB ChB *Glas.*, FRCSed, Wessex Region, G. Massie, CBE, MS, FRCS, Dental A. D. E. Sheffield, OBE, FDSRCS. Adviser on Radiation Protection. Prof. W. V. Mayneord, CBE, DSc *Bum.*, FIP.

## GENERAL INFORMATION

The federation was established by the statute in 1945 for the further development of postgraduate medical education in London. It was incorporated by royal charter in March 1947, and admitted as a school of the Univ. in Dec. 1947. The purpose of the federation is to provide organised and correlated facilities for postgraduate teaching and research for qualified medical and dental practitioners from the U.K. and other countries in and outside the

Commonwealth, and to co-operate with universities, medical schools, the royal colleges and other bodies in their provisions for postgraduate medical education. The federation provides: (i) a tripartite system for prospective specialists, supplementing the work of the undergraduate medical and dental schools; (ii) advanced revision for practising specialists; (iii) instruction for medical and dental practitioners who, though not specialists, desire more detailed knowledge of any branch of

med. or dent.; (iv) continuing educn. of general practitioners.

The federation comprises at present: *federated institutes*—Postgrad. Med. Sch. of Lond.; Inst. of Basic Med. Sci.; Inst. of Cancer Res.; Royal Cancer Hosp.; Inst. of Cardiol.; Inst. of Child Health; Inst. of Dent. Surg.; Inst. of Dermatol.; Inst. of Dis. of the Chest; Inst. of Laryngol. & Otol.; Inst. of Neurol. (Queen Square); Inst. of Obstet. & Gynaecol.; Inst. of Ophthalmol.; Inst. of Orthopaed.; Inst. of Psychiatry; Inst. of Urol.

Postgraduate educn. at the insts and the hospa. associated with them includes full-time and pt.-time courses of advanced instructn., clin. clerkships, jr. and sr. resident hosp. appts and opportunities for res. Provision is made for candidates for the MD, MS, MDS and PhD degrees, and courses are held for the academic postgrad dipls in clin. pathol. and psychol. med. of the univ. In addn. most insts hold conferences and symposia for consultants.

The federation organizes short courses for gen. med. and dent. practitioners and med. officers of local authorities at hospa. in the 4 London metropolitan regions and the Wessex region, these incl. a number of courses consisting of half-day sessions, at undergrad. and postgrad. teaching hospa. The agenda of the federation is carried out by the central office, which maintains a bureau of information on postgrad. med. educn. in the U.K., and arranges annually a series of lectures on 'the scientific basis of med.'. Three lectures on 'the scientific basis of dent.' will again

be held in 1963. These are designed for res. workers and specialists in trg., and are given by well-known experts from centres throughout the country.

The federation awards a limited number of travelling fellowships annually to medically or dentally qualified men and women who are holding appts at undergrad. or postgrad. teaching hospa. or med. schs of the Univ. of London. See also p. 910.

Following the institution of the national health service in July 1948, the federation appointed to the staff of the central office a regional adviser for postgrad. med. educn. in each of the 4 metropolitan regions to carry out the policy of the univ. and the federation in arranging postgrad. educn. for the practitioners, both specialist and gen., in the region. The S.W. metropolitan region was divided into 2 in 1959, the more distant part being separated from the S.W. region and named the Wessex region. In Oct. 1956 a regional adviser in postgrad. dent. educn. was apptd. The regional advisers are members of the admin. staff of the central office (see above).

**PUBLICATIONS.** *Annual Report and Handbook*, information leaflet concerning federation; table of postgrad. med. courses held at univs. in the U.K.; programmes of courses for gen. med. and dent. practitioners organized by federation; programmes of symposia for consultants held at insts. of the federation; vol. of lectures arranged by the federation, entitled *The Scientific Basis of Medicine—Annual Review* (Athlone Press).

## THE YEAR 1961

**STUDENT NUMBERS** are shown below for each inst. The majority of postgrads of the fed. (there are no undergrad. students) stay only 1 or 2 terms of the session at an inst. and very few remain over from one yr. to another, as they are encouraged to take hosp. appts as part of their clin. trg. The numbers of full-time students given below for each inst. are those who attended full-time for 1 term or more of the yr. Pt.-time includes those who attended for less than 1 term, whether full-time or

pt.-time, and those who attended pt.-time for any period of the yr. incl. occasional lectures, etc. Most of the pt.-time students spend the rest of their time at other hospa. in London or in reading for exams. Students from other countries, 2512. (Countries from which largest numbers came: India, 550; Australia, 254; South Africa, 147; Egypt, 139; Pakistan, 110; U.S.A., 92; New Zealand, 90; Iraq, 83; Ceylon, 82; Canada, 79; Eire, 69).

## INSTITUTES OF THE FEDERATION

(a) **POSTGRADUATE MEDICAL SCHOOL OF LONDON** (Ducane Rd., Shepherd's Bush, London, W.12. Cables and Telegrams: Postgradmed, London, W.12. Tel: Shepherd's Bush 2030) *Deans*—C. Newman, MD Cantab., FRCP.

Incorporated by royal charter 1931, reconstituted in 1946 as an inst. of the federation for postgrad. instructn. in med., surg., pathol. and radiol. The sch. is associated with Hammersmith Hosp., which contains, when fully opened, 710 beds. There are 3 ten-wk. terms in the yr. when organized teaching is arranged daily from 9 a.m. to 4 p.m.; hosp. practice available during vaca-

tion. Fees: £40 per term. Facilities for res. work provided under direction of profs. for suitable students. Course for dipl. in clin. pathol. commences annually in Oct. For advanced students courses in anaesthetics are arranged in the Oct. and April terms and teaching suitable for candidates for the DA is provided in the Jan. term, with a prelim. practical course in the pre-

ceding autumn term. There is a pathol. museum and a mod. and well-equipped reference library for use of the students.

**PUBLICATIONS** *Prospectus and Annual Report.*

#### THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS** *Bldg. completed* Wolfson Inst., consisting of lecture theatres, refectories and common rooms.

**NEW CHAIRS.** Personal chairs diagnostic radiol. (Dr R. E. Steiner), urol. (R. Shackman).

**RESIGNATIONS.** Dr P. Hugh-Jones (med.).

**STUDENT NUMBERS, 1961-62.** (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
399 m., 77 w.	81 m., 12 w.	570

- (b) **INSTITUTE OF BASIC MEDICAL SCIENCES** (Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C.2. Tel.: Holborn 3474). *Dean*—E. G. Muir, MS, FRCS.

The inst., formed in 1951 and approved for recog. as a federated inst. of the federation in Jan. 1957, comprises the teaching facilities of the depts. of anat., pathol., pharmacol. and physiol. of the Royal Coll. of Surgeons of England. It co-operates with other specialist insts. of the federation to provide facilities for practical work and instruction in basic med. scs., and there are opportunities for res. for selected grads. Library, museum and residential accom. available. Regular 24 wks. 'revision course' covering autumn and spring terms suitable for candidates for higher med. and dent. degrees and dipls.; fee, 70 gs.

(lectures only, 40 gs.). 12 wks. 'revision course' for dent. surgeons in summer term; fee, 35 gs.

#### THE YEAR 1961

**NEW CHAIRS** Sir William Collins prof. of anat. (G. W. Causey), Sir William Collins prof. of pathol. (Dr G. J. Cunningham).

**STUDENT NUMBERS, 1961-62.** (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
187 m., 14 w.	196 m., 19 w.	416

- (c) **INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL**, Fulham Rd., London, S.W.3. Tel.: Fulham 8171. (Chester Beatty Research Inst., tel.: Fulham 8133). *Actg. Dean*—Prof. A. Haddow, MD DSc PhD Edin., FRS.

The inst., approved for recog. as a federated inst. of the federation in 1951, comprises Chester Beatty Res. Inst. and parts of the depts. of phys. and radiotherapy at the Royal Marsden Hosp. It is concerned with all aspects of res. into causation and treatment of cancer, with trg. of res. workers in this field, and with advanced teaching in biophys. and radiotherapy. Courses are held for the PhD degrees in phys. and biophys. of the Univ. of London. Excellent facilities are available in the phys. dept. at Sutton for res. in radecol. and environmental radioactivity. The radiotherapy dept. provides clin. trg. for DMRT students, and courses of 1 wk.'s duration in May and Nov.

for visitors with suitable experience. Facilities for those wishing to pursue res. in the clin. and pathol. aspects of cancer. Facilities also for res. into physical and biol. foundations of med. radiol. There are labs. for chem., biochem. and histol. investigations into cancer and allied diseases, and a library.

#### THE YEAR 1961

**STUDENT NUMBERS, 1961-62.** (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
55 m., 18 w.	8 m., — w.	81

- (d) **INSTITUTE OF CARDIOLOGY** (35 Wimpole St., London, W.1. Tel.: Hunter 3043). *Dean*—W. W. Bridgen, MD, FRCP.

The inst., which is associated with the National Heart Hosp., and was formed in 1946, has been approved for recog. as a federated inst. of the federation since April 1, 1954. Trg. is provided by means of registr. appts. for physicians who intend to specialize in cardiol. and full-time instruct. for a period of 10 wks. for postgrads. already trained in general med. Trg. includes clin. cardiol., electro-cardiography and radiol. and pathol. of the heart. Courses start in Jan., April and Oct. fee 40 gs., pt.-time 20 gs. Spec.

2-week courses are held in the autumn and spring terms. fee, 20 gs. Specially selected postgrads. are accepted for long-term trg., incl. res. methods. fee, 120 gs. p.a. A limited number of appts. as fellows are available each yr. for well-qualified grads. from overseas who are in receipt of scholrs. or grants from their own countries. Library, museum and res. facilities.

**PUBLICATION** *Handbook*



## THE YEAR 1961

MAJOR BUILDING DEVELOPMENT *Bldg. completed* - lecture theatre

RESIGNATIONS Dr. E. L. McDonald (asst. dir., 1955-61)

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
45 m., 5 w.	52 m., 3 w.	105

- (e) INSTITUTE OF CHILD HEALTH (The Hospital for Sick Children, Great Ormond St., London, W.C.1. Tel.: Holborn 2196). Dean—G. H. News, MD, FRCP.

Founded 1945, and associated with The Hosp. for Sick Children, Queen Elizabeth Hosp. for Children and postgrad. med. sch. at Hammer-smith Hosp. Approved for recog. as federated inst. of the federation from 1948. Main objects are (a) to promote the study of all aspects of disease and its prevention in childhood; (b) to provide instruction in clin. paediatrics and prevention of dis. in childhood and in the basic med., surg. and pathol. of children.

Tuition provided daily in 3 terms of 12 weeks each. Fees: £40 per term. Clin. clerkships

available for selected students. Students' common rooms and library provided.

PUBLICATIONS *Prospectus and Annual Report.*

## THE YEAR 1961

RETIREMENTS Dr. B. E. Schlaesinger (med.)

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
85 m., 58 w.	20 m., 8 w.	171

- (f) INSTITUTE OF DENTAL SURGERY (Eastman Dental Hospital, Gray's Inn Rd., London, W.C.1. Tel.: Tottenham 7251). Dean and Dir. of Studies—Prof. R. V. Bradlow, CBE, MDS, DCh., FRCS, FDSRCS.

The inst. is associated with the Eastman Dental Hosp., formed in 1948, and approved for recog. as a federated inst. of the federation from Oct. 1951. In addn. to reg. by means of full- and pt.-time appts. in the inst. there are courses in orthodontics (full- and pt.-time, up to 1 yr.) and in periodontol., conservative dent., prosthetic dent., minor oral surg., children's dent., oral med. and oral pathol. (variable length, full- and pt.-time). Refresher courses of 1 and 2 wks' duration arranged throughout yr. for gen. practitioners. Courses also held in conjunction with fac. of dent. surg. of Royal Coll. of Surgeons, particularly intended for candidates preparing for final exam.

for FDSRCS. These commence in April and Oct. (for approx. 8 months); fee, £80; in April and Oct. there are 8-wk. intensive courses; fee, £31; res. and library facilities.

PUBLICATION. *Prospectus.*

## THE YEAR 1961

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
89 m., 14 w.	173 m., 33 w.	309

- (g) INSTITUTE OF DERMATOLOGY (St. John's Hospital for Diseases of the Skin, Lisle St. (Leicester Sq.), London, W.C.2. Tel.: Gerrard 8383). Dean—B. Russell, MD, FRCP.

Inst. formed in 1946 and approved for recog. as a federated inst. of the federation from May 1959. It is associated with St. John's Hosp. for Diseases of the Skin. Clin. teaching in out-patient dept., daily, and wky. ward rounds and case conferences in the in-patient dept. Fees for attendance on hosp. practice £120 for a yr., £40 for one term. Tutorials in clin. dermatol. and histopathol. of the skin are given twice a week in term-time. The yr.'s lecture course commences in Oct. and carries on during univ. terms until the end of June. During this period also there are, each week, clin. demonstrations, and a discussion of cases of special interest to which full-time students are invited. There are facilities for study or instruction in radiotherapy, biopsy technique and skin testing, biochem. and pathol. and histopathol. and med. mycol., in which two subjects sp. short courses

are held. Courses in clin. dermatol. are also given for general practitioners. Advanced students can apply for clin. and res. assistantships, the former of which are competitive. There is a museum of wax mouldages, a photographic dept. and library.

PUBLICATION. *Prospectus.*

## THE YEAR 1961

BUILDING DEVELOPMENT. Addnl. labs for mycol., bacteriol., photobiol., histol. and professional unit, and new lecture-study room.

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
41 m., 5 w.	42 m., 9 w.	97

- (h) INSTITUTE OF DISEASES OF THE CHEST (Brompton Hospital, London, S.W.3. Tel.: FLOXMAN 3797). *Dean*—J. R. Bignall, MD CMB, FRCP.

The inst. was formed in 1946 and approved for recog. as a federated inst. of the federation from Oct. 1955. It is associated with the hosp. for diseases of the chest (Brompton Hosp. and the London Chest Hosp.). Courses of instruction for postgrad. students are arranged as follows: *Autumn term*, full-time course in tuberculosis, pt.-time course in chest dis. *Spring & summer terms*, full-time and pt.-time courses in chest dis. Fees: full-time courses, £40 per term, pt.-time courses, £25. Whole-time courses in chest surg. are conducted during 3 terms of 10 weeks each, beginning in Jan, April and Oct. They are intended as an introduction to thoracic, cardiac

and oesophageal surg.; fee, £40 per term. Pt.-time instruction in radiol. of the chest for trainee radiologists only is given each term; fee, £20. Library, museum and res. facilities.

**PUBLICATIONS.** *Syllabus of Courses, Annual Report & Handbook, Brompton Hosp. Reports.*

#### THE YEAR 1961

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
99 m., 12 w.	71 m., 6 w.	188

- (i) INSTITUTE OF LARYNGOLOGY AND OTOTOLOGY (Royal National Throat, Nose and Ear Hospital, Gray's Inn Rd., London, W.C.1. Tel.: TERNUMAS 8855). *Dean*—J. C. Hogg, CVO, MA MB BChir Camb, FRCS.

The inst. is associated with the Royal National Throat, Nose and Ear Hosp. in Gray's Inn Rd., London, W.C.1, and Golden Square, London, W.1, and was founded in 1945 for the trg. of specialists and the prosecution of res. in oto-rhino-laryngol. It was approved for recog. as a federated inst. of the federation in Jan 1949. In addn. to the daily clin. teaching which goes on throughout the year (the fees for which are £25 for 3 months or £70 for 12 months), the theoretical aspects of the specialty and of the basic scis. on which it is founded are covered by a course of lectures and demonstrations held twice annually. The course fees are: basic scis. (14 weeks), £56; intensive clin. lecture period (6 weeks), £24; practical revision class (3 weeks), £10. An advanced revision course for sr. students lasting 2 weeks is also held twice yrlly.; fee, £10. Courses

in sp. subjects, such as malignant diseases, endoscopy, audiol., pathol. and aural surg., are held several times annually. The inst. is housed partly inside the hosp. and partly in adjoining accomm. adapted for the purpose. There are pathol. and anat. museums, a library with reading and writing rooms, and students' common rooms. Res. labs. are available.

**PUBLICATIONS.** *Prospectus and Annual Report*

#### THE YEAR 1961

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
78 m., 3 w.	84 m., — w.	165

- (j) INSTITUTE OF NEUROLOGY (National Hospital, Queen Square, London, W.C.1. Tel.: TERNUMAS 3611). *Dean*—J. W. D. Bull, MA MD CMB, DMR, FRCP, FFR.

The inst. is a continuation of the med. sch. associated with the National Hosp., Queen Square, where postgrad. clin. teaching and res. have been carried on for past 100 yrs., also associated with the Hosp. for Nervous Diseases, Maida Vale. Clin. teaching in neurol. and neuro-surg. continues throughout the yr., and is mainly by means of attendance on the hosp. practice. Fee, £36 for 3 months, £70 for 6 months and £120 for 1 yr. Three courses are held annually, commencing in Oct., Jan and April, and are of 10 weeks' duration. Fee, £40. Ward rounds and out-patient teaching clinics throughout yr. Clin. demonstrations are held twice a week. There are

2 full-time courses in electro-encephalography, each of 6 mos' duration, starting in Oct. and April. Fee, £70. Res. labs., X-ray and photographic depts. and library.

**PUBLICATIONS.** *Prospectus and Annual Report.*

#### THE YEAR 1961

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
200 m., 16 w.	193 m., 20 w.	429

(k) **INSTITUTE OF OBSTETRICS AND GYNÆCOLOGY** (The Chelsea Hospital for Women, Dovehouse St., London, S.W.3. Tel.: Fulham 9509). *Dean*—R. M. Feroze, MD, FRCS, FRCOG.

The inst. is associated with Queen Charlotte's Maternity Hosp., the Chelsea Hosp. for Women and the dept. of obstetrics & gynaecol. at Hammer-smith Hosp. It was formed in 1948, and was approved for recog. as a federated inst. of the federation from Oct. 1949. It has 283 beds for obstet. and 176 for gynaecol. Trg. is mainly by means of courses of instruction, which include lectures and demonstrations held during a long term only, commencing in Sept. and March, each term is of 13 weeks' duration. Fee, 50 gs. per term. An advanced revision course of 2 weeks' duration is held in June and Dec. (fee, 15 gs.), and a week's course for general practitioners is held twice a yr. (fee, £5.5s.). There is provision for general practitioners with a sp. interest in obstet. and gynaecol. to attend for short periods. Resident house appts and registrarships are

advertised and filled by open competition. They afford increasing responsibility for the care of patients and opportunities for original investigation, under supervision. Res. and museum facilities.

**PUBLICATIONS.** *Prospectus and Three-year Report.*

#### THE YEAR 1961

**DEATHS.** V. B. Green-Armytage (obstet. & gynaecol.)

**STUDENT NUMBERS, 1961-62.** (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
94 m., 46 w.	94 m., 37 w.	271

(l) **INSTITUTE OF OPHTHALMOLOGY** (Judd St., London, W.C.1. Tel.: Euston 9621). *Dean*—T. K. Lyle, CBE, MA MD MChur Camb., MRCP, FRCS.

The inst. is associated with Moorfields Eye Hosp. and has developed from the med. school of the Royal London Ophthalmic (Moorfields) Hosp., where clin. teaching and res. have been carried on since its establishment in 1811. It was approved as a federated inst. of the federation in June 1949. In addn. to teaching by means of hosp. practices, a lecture and tutorial course lasting 5 months is held twice a year, commencing in March and Oct. (fee, £73: 10s.). There are 2 advanced courses each yr., a full-time course during last 2 weeks of Sept. and a pt.-time course for 6 wks. from beginning of March (fees: 20 gs. and 15 gs. respectively). Courses of 1 week's duration are held during the terms commencing in March and Oct. in orthoptics (fee, 7 gs.) and contact lens practice

(fee, 12 gs.). Labs for bacteriol., histol., biochem. and res. in all fields associated with the physiol. and pathol. of the eye and vision are available. There are also library and museum facilities.

**PUBLICATIONS.** *Prospectus and Annual Report.*

#### THE YEAR 1961

**RETIREMENTS.** J. D. M. Cardell

**DEATHS.** R. C. Davenport (dean, 1949-59).

**STUDENT NUMBERS, 1961-62.** (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
144 m., 10 w.	110 m., 14 w.	278

(m) **INSTITUTE OF ORTHOPEDICS** (Royal National Orthopaedic Hospital, Great Portland St., London, W.1. Tel.: Euston 5070). *Dean*—H. J. Burrows, MA MD Camb., FRCS, FRACS.

The inst. was formed in 1946, and is associated with the Royal National Orthopaedic Hosp. Approved for recog. as a federated inst. of the federation from Jan. 1951. The practice of the town section and the country section at Stanmore is open to postgrad. students. This includes weekly clin. discussions and monthly teaching ward rounds. There is a programme of org. conferences during univ. terms, and approx. 5 short advanced courses are held annually. Fee, £5 to £10. Week-end courses (without fee) are held for invited consultants and registrars. Sp. lectures on Friday evgs. in winter. Fee, £5. There is an annual fortnight's course for continental surgeons. Students should have previous surg. trg.

and experience. Intensive educn. and trg. is provided for holders of jr. hosp. posts, and selected postgrads. may go on to inst. appts with sp. provision for res. Library and museum facilities.

**PUBLICATION.** *Prospectus*

#### THE YEAR 1961

**STUDENT NUMBERS, 1961-62.** (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
75 m., 8 w.	94 m., 4 w.	181

- (a) INSTITUTE OF PSYCHIATRY (Maudsley Hospital, Denmark Hill, London, S.E.5. Tel.: Rodney 6323). *Dean*—D. L. Davies, MA DM Oxon.

Associated with the Maudsley Hosp., Denmark Hill, and the Bethlem Royal Hosp. Admitted as a sch. of the univ. in May 1924, and approved for recog. as a federated inst. of the federation in March 1948.

Psychiatric trg. based on responsible hosp. duties under supervision given throughout yr., suitable for doctors studying for academic postgrad. dipl. in psychol. med. and comprising clin. instructn. supplemented by lecture and demonstration courses in each term. Fees: full course, £37: 5s: 6d. for 1 term, £105 for 1 yr.; lecture courses, £13: 13s. for 1 term, £38: 17s. for 1 yr. Hosp. jr. staff appts. also available. There are a few vacancies in sp. 6-monthly courses in child psychiatry (fee, £54: 1s.: 6d.). Hon. grads in psychol. are accepted for a 12-month course in abnormal psychol. for postgrad. dipl. in psychol. (fee, £53). The neuropathol., biochem., psychol., electro-physical and exper. neuro-endocrinol.

labo. offer facilities for res. and study for higher degrees. Library takes relevant periodicals, in various langs.

PUBLICATIONS: *Annual Report*; *Syllabus of Courses*; *Maudsley Monographs*.

#### THE YEAR 1961

PRINCIPAL BENEFICIARIES: £40,350 res. grants from U.S. Service Depts. National Spinal Soc., Nat. Inst. of Health (U.S.A.), Foundn. 's Fund for Res. in Psychiatry (U.S.A.), Muscular Dystrophy Assn., Soc. for Invest. Human Ecol., Royal Soc., Nuffield Foundation.

STUDENT NUMBERS, 1961-62 (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
197 m., 46 w.	76 m., 33 w.	354

- (a) INSTITUTE OF UROLOGY (10 Henrietta St., London, W.C.2. Tel.: Temple Bar 5361). *Dean*—A. R. C. Higham, TD, MB BS, FRCS.

The inst., which was formed in 1946 and approved for recog. as a federated inst. of the federation in May 1957, is associated with St. Peter's, St. Paul's and St. Philip's Hosps. Comprehensive instructn. given in wards, out-patient depts., operating theatres, labo., etc., throughout yr., fee, 10 gs. per month. Week-end courses for higher exam. candidates are held at frequent intervals, fee, 5 gs. and, by invitation in sr. registrars and jr. consultants, no fee. Demonstrations in co-operation with Assn. of Clin. Pathologists from time to time. Lectures and demonstrations of clin. and lab. material are given in venereal diseases, fee, 12 gs. per month. Week-end courses in co-operation with members of the Med. Soc. for Study of Venereal Diseases, at intervals, fee, 5 gs. per course. In winter

months a series of lecture discussions on urol. subjects of interest to whole profession held on Wed. evgs. at 5 p.m.; no fee. Also clin. evgs. on selected subjects, by invitation, no fee. Limited numbers of clin. assts. apptd. to individual surgeons for personal tuition from time to time, and also res. assts. Library and reading-room.

PUBLICATION: *Prospectus*

#### THE YEAR 1961

STUDENT NUMBERS, 1961-62. (See also 'Student Numbers', p. 1190).

Full-Time	Part-Time	Total
23 m., — w.	160 m., 10 w.	193

[Information compiled as at 1/8/62,  
Senior staff names revised in Jan. 1963]

## LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE

Incorporating the Ross Institute

Founded 1924

Postal Address: Keppel Street (Gower Street), London, W.C.1, England

Cables and Telegrams: Hygonver, Wexcent, London

Telephone: Museum 3041, Langham 7621

U.K.—ENGLAND (LONDON)

PATRON—H.R.H. THE DUK OF EDINBURGH, KG, KT, GMBE, Hon LLD *Wales & Edin.*, Hon DSc *Delhi*, FRS

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CHAIRMAN OF THE BOARD OF MANAGEMENT—C HARRIS, MD, FRCP

DEAN—R. T. C. SPOONER, MA MD *Cambr.*

FINANCE OFFICER—L. G. PONSFORD, LLB

LIBRARIAN—V. J. GLANTVILLE

REGISTER—MRS. M. GLADYS YOUNG

## APPOINTED AND RECOGNIZED TEACHERS

(†=Part-Time)

Applied Physiology		Medical Statistics	
Thomson, M. L., BSc MB ChB <i>Glas.</i> , PhD	Reader	Reid, D. D., MD <i>Aberd.</i> , PhD DSc, MRCP	(Epidemiol.) Prof.
Bacteriology and Immunology		Occupational Health	
Evans, D. C., DSc PhD <i>Manch.</i> , FRS	Prof	Armstrong, P., MA <i>Cambr.</i> , PhD	Prof.
Fulton, F., DM <i>Oxon.</i>	(Virol.) Prof	Irwin, J. O., MA ScD <i>Cambr.</i> , DSc	† Lectr.
Smith, C. E. G., MD <i>St. And.</i>	Reader	Martin, W. J., PhD DSc	† Lectr.
Biochemistry		Parasitology and Helminthology	
Stuckings, C. E., BSc PhD	Prof Sr. Lectr.	Schilling, R. S. F., MD DPH	Prof
Clinical Tropical Medicine		Wood, C. H., SM <i>Hare</i> , MB BS DPH	Sr. Lectr.
Woodruff, A. W., MD <i>Durh.</i> , PhD, FRCP	Wellcome Prof	Public Health	
Bell, S., MD <i>Durh.</i> , MRCPed	Reader	Walton, W. S., GM, MD BHy DPH <i>Durh.</i>	Prof
Entomology		Hinds, S. W., MD	Reader
Bentham, D. S., PhD <i>Glas.</i>	Prof.	Moule, H. G., MA <i>Cambr.</i> , PhD	Sr. Lectr.
Buavine, J. R., PhD DSc	Reader	Don, G. G., JP	Sr. Lectr.
Laurence, B. R., BSc PhD	Sr. Lectr.	Warren, M. D., MD DPH	Sr. Lectr.
Human Nutrition		Jefferys, Mrs. Margot, BSc(Econ)	Lectr.
Platt, B. S., CMG, MSc MB ChB PhD <i>Leeds</i>	Prof.	Tropical Hygiene, Ross Institute of	
Aylroyd, W. R., C.B.E. MD ScD <i>Durh.</i>	Sr. Lectr.	M MacDonald, G., CMG, MD DTM <i>Liv.</i>	Prof., Dir.
Medical Mycology, see Bacteriol.		DPH, FRCP	Reader
		Waddy, B. B., DM <i>Oxon.</i> , DPH	Reader
		Davidson, G., BSc	Sr. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Accountant: F. J. Olive. Personal Services Officer: Kathleen M. Shaw, MBE.

## GENERAL INFORMATION

The sch. represents the union of the Lond. Sch. of Trop. Med., which had operated since 1899, with the univ. teaching depts. for the dipl. in pub. health. In 1934 the Ross Inst. of Trop. Hyg. (founded 1906) was incorporated with the sch.

The sch. was built and equipped with \$2,000,000 provided by the Rockefeller Foundation on the understanding that the British govt. would make adequate grants for staffing and maintenance. Charter of incorporation secured in 1934 and

# LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE 1197

supplemental charters in 1931, 1934 and 1947. The sch. is recog. by the univ. in the face of sci. and med.

**CONSTITUTION** The charter of incorporation provides for the constitution of a court of governors, a bd of management (the governing body of the sch) and a sch. council representative of the teaching staff

**INCOME (1960-61).** Total income, £359,635 (interest on investments & bank deposits, 3.8 per cent., donations & subs., 4.3 per cent., univ. court grants, 70.7 per cent., students' fees, 3.9 per cent.; contributions for services rendered, 1.1 per cent.; res. grants & contracts, 14.1 per cent.; other income, 2.1 per cent.)

**LOCATION** All courses are given at premises in Keppel St. which have excellent labs., res. and class-rooms and lecture-theatres.

At Witches Farm, St. Albans, there is a field res. and animal breeding sch. Dept. of clin. trop. med. works in close assoc. with Hosp. for Trop. Diseases, 4 St. Pancras Way, N.W.1

**LIBRARY.** 42,000 bound vols. and over 50,000 unbound pamphlets; 360 books of 17th-18th cents on trop. diseases and hyg., and special Reace collection of 340 vols. on smallpox and vaccination; series of annual med. and sanitary reports from Britain, the Commonwealth and the tropics

**POSTGRADUATE DIPLOMA AND CERTIFICATE COURSES.** Courses are offered leading to the following qualifs. of the Univ. of London and/or the conjoint bd. of the Royal Coll. of Physicians & Royal Coll. of Surgeons

*Dipl. in Pub. Health (Lond.)* course for qualified med. practitioners, 9 mos. from Oct. Scholarships available. Fee: 84 gs.

*Dipl. in Indust. Health (R.C.P.&S.)* course, whole-time, 11 wks. from Oct. to Dec., for those who have already taken a DPH course. It will also be available to registered med. practitioners who require an intensive try in the practice of indust. med. Applica. to be recd. not later than preceding 1st April. No. of places strictly limited. Fee: 36 gs.

*Dipl. in Bacteriol. (Lond.)* course for grads. in med., sci., vet. sci., pham., and suitably qualified non-grads., 9 mos. from Oct. Applica. to be recd. not later than preceding 1st March. No. of places strictly limited. Fee: 84 gs.

*Dipl. in Trop. Med. & Hyg. (R.C.P.&S.)* course for qualified med. practitioners, 5 mos., commencing Oct. and March. Grant for payment or partial payment of tuition fees available. Fee: 48 gs.

From Oct. 1963 this course will be offered once a yr. only commencing in Feb.

*Cert. and Dipl. in Trop. Med. & Hyg. (Lond.)* course for qualified med. practitioners, 9 mos. from Oct. Candidates for final dipl. course must have had 12 mos.' experience of med. practice in a trop. country. Fee: 84 gs. for whole course; 48 gs. for pt. I only

From Oct. 1963 this course will be re-named the academic postgrad. dipl. in clin. med. of the tropics and will present trop. med. primarily for clinicians.

*Cert. and Dipl. in Applied Parasitol. & Entomol. (Lond.)* course for those with acceptable qualifs. in med., vet. med., vet. sci., or sci., 9 mos. from Oct. Applica. to be recd. not later than preceding 1st April. No. of places strictly limited. Fee: 84 gs. for whole course, 48 gs. for pt. I only.

**EXEMPTIONS** There are interrelated exemptions between the DTM&H (Lond.), the DTM&H (R.C.P.&S.) and the DAP&E (Lond.). Details from registrar of the sch.

*Dipl. in Trop. Pub. Health (Lond.)* Commencing in Oct. 1963, the sch. will offer a course of lectures and practical instruct. for a new Univ. of London academic postgrad. dipl. in trop. pub. health. The course is intended for med. grads. proposing to work in the fields of prev. & soc. med., incl. admin., in trop. countries.

*Dipl. in Occupational Hygiene (Lond.)* If numbers permit, an academic course in occup. hyg. will start in Oct. each yr. and last for 9 mos. Fee: 42 gs.

**OTHER COURSES, not leading to a qualif.** *Intensive course on dust and pulmonary dis.* will be held from Feb. 4 to March 1, 1963. Fee: 15 gs. *Intensive course on origin, control of occup. hazards* will be held from May 27 to June 21, 1963. Fee: 15 gs. All courses are full-time and are open to grads., particularly in phys., chem., engin. or med., or, in special circumstances, to non-grads.

*Short Course in Med. Stats.* A course in med. stats. is held annually on 2 mornings and 2 afternoons a wk., from about beginning of Jan. to about middle of April. The course is intended primarily for medically qualified res. workers but those with appropriate scientific qualifs. are also eligible. Fee: 20 gs.

*Combined Course in Med. Stats. and Epidemiol.* A course in med. stats. and epidemol. is held annually from about beginning of Jan. to about middle of April for a full days and a morning a wk. The course is designed for med. practitioners, and only a small no. of students will be accepted. Fee: 30 gs.

*Short Course in Medical Services Administration.* Of up. interest to exec. med. officers of regional hosp. bds. and others in admin. field of pub. health. Non-med. persons eligible to apply. Commences end of April each yr. and lasts 10 wks. Fee: 36 gs.

*Short Course in Environmental Control of 15 wks.' duration.* Held once a yr., commencing about the beginning of Oct. Intended primarily for health inspectors from abroad. Fee: 32 gs.

*Course in Trop. Hyg. for Laymen,* for non-medical men and women proceeding to tropes. Held once a yr. in July and lasts about 5 days. No fee.

*Course in Trop. Nutrition.* For those who would find a knowledge of trop. nutrition useful

U.K.—ENGLAND (LONDON)

in their work. Held once a yr in July and lasts for 5 days. No fee

**RESEARCH DEGREES.** Facilities for res. for MSc and PhD. Lab. fee, 30 gs p a

**A SCHOOL ASSOCIATION** of old students has been formed. Members regularly receive *Annual Report*

**STUDENT HEALTH SERVICE.** The sch.'s students may join the University Coll. student health

asscn. Benefits incl. clin. consultations and psychiatric, ophthalmic and dent. treatment.

**THE BUREAU OF HYGIENE AND TROPICAL DISEASES**, governed by a cttee apptd. by the sec. for technical co-operation, is housed in sch. premises and publishes monthly the *Bulletin of Hygiene* (annual sub., £6.10s) and *The Tropical Diseases Bulletin* (annual sub., £5).

**PUBLICATIONS.** *Memor. Series, Annual Report*; *annual Syllabus of Courses*; *Journal of Helminthology*, 4 pts a yr. (vol. 36), price 70s a vol.

## THE YEAR 1961

**PRINCIPAL BENEFITATIONS.** Bequest of approx. £21,392 to date under will of Sir Patrick Manson deceased, to sch. trust funds

**RETIREMENTS.** Mrs. Jacqueline Walker (pub. health lab. sci. v. mycological ref. library), G. Smith (biochem.), Prof. A. Bradford Hill (med. stats).

### Statistics

#### STUDENT NUMBERS, 1961-62 \*

	Full-Session	Half-Session
Men . . . . .	106	96
Women . . . . .	18	16
Total . . . . .	124	112

\* These figures relate only to students attending courses leading to a qualif. The total number of students during the academic yr., including those attending courses of less than 5 wks., was 551 (426 m., 125 w.).

**Distribution by Faculties.** *Med.*, 194, *Sci.*, 42 Total. 236.

*Included in the figures above are:—*

Postgraduate students working for a higher degree, 40.

Students from other countries, 175 (Countries from which largest numbers come: India, 36, Pakistan, 30)

**DEGREES AWARDED** (by Univ. of London) (1960-61) PhD (all facs), 11, MSc (all facs), 1.

**DIPLOMAS AWARDED** (1960-61) DAP&E, 9, DipBact, 10; DPH, 63; DTM&H (Leam), 6, DTM&H (R C P & S), 77; DIH (R C P & S), 12; DIH (Sec. of Apoph.), 2.

**CERTIFICATES AWARDED** (1960-61). CAP&E, 10, CTM&H, 6

[Information compiled as at 30/7/62]

## LISTER INSTITUTE OF PREVENTIVE MEDICINE

Founded 1891

*Postal Address:* Chelsea Bridge Road, London, S.W.1, England §

*Cables and Telegrams:* Bacteriology, Sower, London

*Telephone:* Sloane 2181

**CHAIRMAN OF GOVERNING BODY**—Professor Sir CHARLES DOUGLAS, MVO, MD DSc, FRCP, FRS

**DIRECTOR**—Professor A. A. MILES, CBE, MA MD Camb, FRCP, FRS

**SECRETARY AND ACCOUNTANT**—S. A. WHITE

§ also at Elstree, Herts. (cables and telegrams: Prevent, Elstree; tel. Elstree 1009)

# APPOINTED AND RECOGNIZED TEACHERS

Dolby, D. E., PhD (Biochem.)	Morgan, W. T. J., DSc PhD, FRIC, FRS (Biochem.) Prof.
Kekwick, R. A., DSc (Chem. Biophys.) Reader	Mourant, A. E., MA DPhil DM Oxon, MRCP (Pathol.)
Macfarlane, Maylene G., DSc PhD (Biochem.)	Standfast, A. F. B., MA DipBact (Bacteriol.)
Maycock, W. d'A., MVO, MBE, MD McG (Pathol.)	Stocker, B. A. D., MD (Microbiol.)
Miles, A. A., CBE, MA MD Camb., FRCP, FRS (Expar. Pathol.) Prof.	West, B. G. F., DSc (Pathol.)
	Whelan, W. J., DSc PhD (Chem.)

# ADMINISTRATIVE AND OTHER STAFF

Estate Sec & Estate Manager G J Roderick,	Accountant E J H Lloyd.
BCom Asst Sec. Barbara A. Prodeaux Asst.	Radiation Protection Officer. W. J. Whelan, DSc PhD.

# GENERAL INFORMATION

Founded in 1891 for res into causation, prevention and treatment of diseases of men and animals. Not in receipt of U G C. grants. Limited accomm. available for approved res. by students of both sexes, usually without fees. Res. studentships advertised as vacancies occur.

LIBRARY. About 10,000 vols, primarily for use of inst. workers

# THE YEAR 1961

PRINCIPAL BENEFICIARIES A. GUINNESS SON & Co. Ltd, £14,000 for res in Guinness-Lister Res. Unit.	Distribution by Faculties. Med, 6; sci., 10
REQUIREMENTS Dr. D. McClean (smallpox vaccine dept)	Total 16.

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	7	2
Women	7	—
Total	14	2

Included in the figures above are —

Postgraduate students, 16.  
New admissions, 7.

DEGREES AWARDED (by Univ. of London)  
(1960-61) Med PhD, 1, DSc, 1. Sci. PhD, 2



# INSTITUTIONS WITH RECOGNIZED TEACHERS

[These are public educat. instns not in receipt of U.G.C. grants (see p. 1065) at which the Univ. has recognized certain teachers giving courses for students studying for degrees or dipl. of the Univ. as internal students. Except in the case of Goldsmiths' Coll., this is the only connecting link between the instns and the Univ.]

[Information compiled as at 1/8/62]

(a) Principal; (b) subjects in which courses are given by recognized teachers; (c) number of full-time students studying for degrees or dipl. as internal students of the Univ. (between 1960-61)\*

1. UNIVERSITY OF LONDON. GOLD-SMITHS' COLLEGE, New Cross, London, S E 14 (tel.: Tideway 2266). Incorporated in the Univ. Warden, and Principal of the Training Dept.—D. R. Chesterman, MSc PhD; Registrar—G. C. Wood, OBE, MA. (c) 40.

Training Department Vice-Principals—Margery K. James, MA BLet DPhil Oxon, and E. A. Wheeler, OBE, MSc. Recog. by Ministry of Educn. as a trg. coll. Ordinary course, 2 yrs., course for science teachers, 3 yrs.; BMA, 3 yrs.; BA hon. in Engl., geog., hist., 3 yrs.; for BA gen. or BSc gen. degree, 4 yrs.; postgrad. course, 1 yr. Lectrs.—55 Hostels provide accomm. for nearly all the women and some of the men students. For recog. teachers see below (Educn., Geog., Music).

2. BATTERSEA COLLEGE OF TECHNOLOGY, Battersea Park Rd., London, S W 11 (tel.: Maccusley 9191). (a) D. M. A. Leggett, MA PhD DSc. (b) Chem., Engin. (Civl, Electr., Mech. and Chem.), Maths., Metall., Music, Phys. (c) 1017

3. CHELSEA COLLEGE OF SCIENCE AND TECHNOLOGY, Manresa Rd., Chelsea, London, S W 3 (tel.: Flaxman 5747). (a) C. C. Hentschel, MSc, FLS. (b) Biol., Bot., Chem., Geol., Maths., Pharm., Phys., Physiol., Zool. (c) 1024

4. COLLEGE OF ESTATE MANAGEMENT, St Alban's Grove, London, W 8 (tel.: Westin 1546). (a) R. Jardine Brown, LLB MA Glas., D.Litt. Edu. (b) Subjects for the degree in estate management (c) 207.

5. EAST MALLING RESEARCH STATION, East Malling, Kent (tel.: West Malling 2033). Director—F. R. Tubbs, CBE, DIC, MSc PhD, FLS. (b) Appl. Bot., Pomol., Statistics, Plant Physiol., Chem. (in relation to fruit-growing), Plant Pathol., Entomol. For postgrad. res. students only. (c) 11.

6. JEWS' COLLEGE, 11 Montagu Place, London, W.1 (tel.: Paddington 2041-2). (a) Actg. Principal—The Chief Rabbi, the Very Rev. Dr. I. Brodie. (b) Hebrew, Semitics (c) 21

7. MARIA GREY COLLEGE, 300 St. Margaret's Rd., Twickenham; 11 The Avenue, Brondesbury, London, N W 6 (tel.: Popesgrove 7836). (a) Beatrice E. Dwyer, MA. (b) Educn. (c) 20

8. NATIONAL INSTITUTE FOR MEDICAL RESEARCH, The Ridgeway, Mill Hill, London, N W 7 (tel.: Mill Hill 3666). All communications to Secretary, Medical Research Council, 20 Park Crescent, London, W.1. Controlled by the Med. Res. Council. Director—P. B. Medawar, CBE, MA DSc, FRSc. (b) Bacteriol., Chem., Biochem., Chem. Pathol., Immunol. and Hyg. For res. students only (c) 18.

9. NORTHAMPTON COLLEGE OF ADVANCED TECHNOLOGY, St. John St., London, E C 1 (tel.: Clerkenwell 7521-5). (a) J. S. Tait, PhD Glas., BSc (Eng.). (b) Engin. (Civl, Mech., Electr.), Maths., Metall. (c) 558.

10. NORTHERN POLYTECHNIC, Holloway Rd., London, N 7 (tel.: North 1686). (a)

\* Only the totals of these students pursuing degree or dipl. courses as internal students of the Univ. of London are given. The instns also provide other courses.

J. Leicester, MScTech *Manc.*, MSc PhD, FRIC.  
(b) Bot., Chem., Geol., Zool., Maths, Phys. (c) 472.

11. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts (tel.: Harpenden 4571). *Director*—F. C. Bawden, MA Cant., FRSc. (b) Sci. (in its applic. to agric.) For res. students only (c) 33

12. ROYAL ACADEMY OF MUSIC, Marylebone Rd., London, N.W.1 (tel.: Welbeck 4461). *Dir.*—Sir Thomas Armstrong, MA DMus, FRCM. (b) All branches of music, theoretical and practical. (c) 17.

13. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, London, S.W.7 (tel.: Kensington 3643) *Director*—K. Folkner, FRCM. (b) All music subjects. (c) 6.

14. SIR JOHN CASS COLLEGE, Jewry St.,

Aldgate, London, E.C.3 (tel.: Royal 8321). (a) A. M. Ward, PhD DSc, FRIC (b) Bot., Chem., Geol., Maths, Metall., Phys. (c) 60a

15. TRINITY COLLEGE OF MUSIC, Mandeville Place, London, W.1 (tel.: Welbeck 5773). (a) W. Greenhouse Alt., Maud (b) All subjects for the musical and arts (music) degrees of London and other univs. (c) 16

16. WEST HAM COLLEGE OF TECHNOLOGY, Rainford Rd., Stratford, London, E.15 (tel.: Maryland 6075). (a) O. Bulmer, MA PhD, FRIC. (b) Chem., Engin. (Chem., Civil, Electr., Mech.), Maths., Phys. (c) 276

17. WOOLWICH POLYTECHNIC, Thomas St., Woolwich, London, S.E.18 (tel.: Woolwich 2846). (a) H. Heywood, DSc(Eng). (b) Engin. (Civil, Electr. and Mech.), Maths., Phys., Chem. (c) 443

## RECOGNIZED TEACHERS

(The number in brackets after each name indicates the instn. listed on p. 1200 or p. 1202 to which the teacher is attached).

### Aeronautics

Cohen, M. J., PhD  
Tokaty, G. A., DEng Moscow

Leicester, J., MScTech *Manc.*, MSc PhD, (10)  
FRIC  
Lee, W. H., PhD, FRIC (10)  
Lander, S. R., PhD (17)

### Bacteriology and Virology

Iazso, A.

McGhee, J. F., BSc PhD (3)  
Powell, D. B., PhD (14)

### Biochemistry

Prise, N. W., MA, FRSc  
Shost, Eileen I., BPharm PhD  
Work, T. S., DSc

Ross, W. A., PhD (3)  
Salmon, J. E., PhD (2)  
Smith, C. G., BSc PhD, FRIC (10)  
Vahman, M., PhD, FRIC (9)  
Vogel, A. I., DIC, DSc (17)

### Botany

Berkeley, C. J. A., BSc  
Mer, C. L., DIC, BSc PhD  
Spearing, J. K., PhD  
Tubbs, F. R., CBE, DIC, MSc PhD, FLS  
Turner, E. R., MA PhD Camb.  
Watson, D. J., PhD Camb.

Walker, J., DSc Oxon. (8)  
Ward, A. M., PhD DSc, FRIC (14)  
Wilson, D. W., MSc Belf., FRIC (14)  
Wyvill, P. L., PhD (10)

### Crystallography

Lewis, D., MSc PhD (2)

### Education

Kaye, M., MA PhD (1)  
Mitchell, Marjory (7)

### Chemistry

Allen, P. L., MSc PhD, FRIC (16)  
Arcus, C. L., PhD DSc (2)  
Beckett, A. H., PhD DSc (13)  
Boyd, G. V., PhD (6)  
Cumper, C. W. N., PhD Camb.  
Daisel, J. A. W., PhD, FRIC (17)  
Duffy, J. F. J., DSc Wales (3)  
Finer, I. L., PhD (10)  
Fraser, M. J., PhD (10)  
Gerard, W., DSc PhD, FRIC, FIM (10)  
Griffiths, V. S., PhD (2)  
Houston, A. H. J., MSc PhD (2)  
Hughes, S. R. C., PhD (1)  
Irving, R. J., MSc *Adel.*, PhD *Leeds*  
James, A. M., DPhil *Oxon.*  
Jeffery, G. H., PhD (17)

Houk, J. E., PhD *Lw.* (3)

### Engineering, Chemical

Mutholland, D. B., MSc PhD (16)  
Portzlat, S., PhD (2)  
Tulby, S. R., PhD (2)  
Thomas, W. J., PhD, FRIC (2)

### Engineering, Civil and Mechanical

Beaufoy, L. A., PhD (4)  
Carnegie, W., PhD *Sirm.* (2)  
Heywood, H., DSc(Eng) (17)  
Levy, J. C., MS *Ill.*, BSc(Eng) (9)  
Lovering, W. F., MSc *Birm.* (2)  
Munn, H. C., BSc(Eng) (2)

- Ream, N., BA *Camb* (2)  
 Roberts, N. P., BSc(Eng) (9)  
 Oskden, J. C., MA *Camb.*, MScTech *Manc.* (9)  
 Robertson, S. A., BSc(Eng) BCom (2)  
 Scott, F. C., BSc(Eng) (16)  
 Waple, R. L., *Diplom Leam* (2)  
 Walker, J., MSc *Manc.* (17)
- Engineering, Electrical**  
 Freeman, G. F., MSc(Eng) (17)  
 House, H., PhD (9)  
 Lovering, W. F., MSc *Birm* (2)  
 Mann, H. C., BSc(Eng) (2)  
 Ream, N., BA *Camb.* (2)  
 Soper, P. F., PhD (9)  
 Tait, J. S., PhD *Glas*, BSc(Eng) (9)  
 Widdis, F. C., BSc(Eng) (9)  
 Woodrow, R. A. (2)
- Entomology**  
 Potts, C., DIC, PhD DSc (11)
- Estate Management**  
 Adkin, B. C., MA *Camb.*, BSc (Agric. & For.) (4)  
 Burke, G. L., MC, MSc (Town & Country Planning) (4)  
 Chapman, D. H. (4)  
 Lawrence, D. M., BSc (Engl. Law relating to Land) (4)
- Geography**  
 Yates, E. M., MSc PhD (14)
- Geology**  
 Prentice, J. E., PhD (14)  
 Smith, W. E., MSc PhD (3)
- Horticulture**  
 Rogers, W. S., MA *Camb.*, DSc (5)
- Immunology**  
 Humphrey, J. H., MD *Camb.* (8)
- Law**  
 West, W. A., LL.M. (4)
- Mathematics**  
 Ansotti, F. M., MSc PhD (2)  
 Geary, A., MA *Camb.*, MSc (9)  
 Gillick, A. W., PhD (9)  
 Godfrey, D. E. R., MSc PhD (17)  
 Ledham, A. E., MSc *Birm.* (3)  
 Martin, E. S., BSc PhD (10)  
 Nutkins, Mary A., MSc PhD (10)  
 Smith, M. G., MA *Camb.*, PhD (14)  
 Spear, B., MA MSc *Durb.*, PhD *Edin.* (14)  
 Stein, Eliza, PhD *Varona* (3)  
 Varnevides, P. L., PhD (3)
- Metallurgy**  
 Derry, L. W., BSc *Birm.*, MScTech *Manc.* (2)  
 Kingswood, V. S., MSc(Eng) (2)  
 Sherr, L. L., PhD (2)
- Musac**  
 Andrews, H. K., DMus (13)  
 Brockless, B. G., BMus (2)  
 Cooke, A. A., BA MusD *Camb.* (15)  
 Durrant, F. T., BMus *Durb.*, DMus, FRCO (12)  
 Gippe, Ruth, DMus *Durb.* (15)  
 Howells, H. N., CBE, DMus *Oxon.*, Hon. MusD *Camb.*, FRCM, FRCO (13)  
 Jacob, G., DMus, FRCM (13)  
 Latham, P. M. S., MA BMus *Oxon.* (12)  
 Lloyd Webber, W. S., DMus, FRCO (13)  
 Meers, E. D. K., DMus, FRCO (15)  
 Moule-Evans, D., DMus *Oxon.* (13)  
 Orrey, L. G., BMus *Durb.*, FRCO (1)  
 Pritchard, A. J., DMus *Durb.* (12)  
 Regan, L. W. A., BMus *Oxon.*, FRCO (12)  
 Sedde, S. J., MusB PhD *Camb.* (15)  
 Sowerbutts, J. A., BMus, FRCO (12)  
 Thuman, E. H., DMus (12)  
 Watson, S., MA DMus *Oxon.* (13)
- Pharmaceutical Chemistry**  
 Beckett, A. H., PhD DSc (3)  
 Casy, A. F., PhD (3)  
 Dondlow, M., PhD (3)
- Pharmaceutics**  
 Bean, H. S., PhD (3)  
 Carless, J. E., BPharm MSc PhD *Manc.* (3)
- Pharmacognosy**  
 Sheppard, E. J. (3)
- Physics**  
 Barton, J. C., PhD (10)  
 Bate, A. E., PhD MSc, FIP (16)  
 Bot, J., MSc *Manc.* (16)  
 Caffyn, J. E., BSc *R'dy* (9)  
 Donovan, R., PhD (10)  
 Elton, L. R. B., MA *Camb.*, PhD (2)  
 Foulks, K. W. H., PhD (2)  
 Freeman, L. J., DIC, BSc PhD (2)  
 Humphrey, R. H., MSc *Birm.*, FIP (14)  
 Keohane, K. W., PhD *Birm.*, FIP (3)  
 Klinger, Y., MSc PhD (2)  
 Longhurst, R. S., PhD (3)  
 Pilew, Matjone E., BSc PhD (10)  
 Smith, D. H., PhD (17)  
 Suddaby, A., MSc PhD (14)
- Physiology and Pharmacology**  
 Ducka, S. E., MD *Bristol*, PhD (3)  
 Edholm, O. G., MB BS BSc (8)  
 Feldberg, W. S., CBE, MA *Camb.*, MD *Berl.*, FRS (8)

# INSTITUTIONS WITH RECOGNIZED TEACHERS

1203

**Plant Pathology**  
Bowden, P. C., MA *Canab.*, FRS  
Harris, R. V., DSc

(11)  
(5)

Johnson, N. L., MSc PhD  
Yates, F., CBE, ScD *Canab.*, FRS

(14)  
(11)

## Zoology

**Semitic Languages**  
Wieder, N., DPhil *Wshrnbg*  
Zimmels, H. J., DrPhil *Vienna*

(6)  
(6)

Brown, Eleanor M., BSc PhD  
Butler, C. G., MA PhD *Canab.*  
Etherington, D., MSc  
Heutschel, C. C., MSc, FLS  
Purchon, R. D., PhD DSc *Brist.*  
Rzóska, J., DPhil *Poznan*  
Sutton, Muriel F., PhD

(3)  
(11)  
(10)  
(3)  
(3)  
(14)  
(3)

**Statistics**  
Hoblyn, T. N., OBE, DipHort

(5)

# VICTORIA UNIVERSITY OF MANCHESTER\*

Founded 1880; previously established as Owens College, 1851

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VISITOR—H M THE QUEEN IN COUNCIL

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VICE-CHANCELLOR—Professor W. MANSFIELD COOPER, LL.M.

PRO-VICE-CHANCELLORS—Professor F. C. WILLIAMS, CBE, DPhil Oxon, DSc, MIEE, FRs; Professor W. E. MORISON, MScTech, FTI, Professor G. L. BROOK, BA PhD Leeds, MA

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REGISTRAR—VINCENT KNOWLES, MA

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LIBRARIAN—M. TYSON, MA PhD

## TEACHING STAFF

[† = Part-Time]

### Accounting

Murphy, G. W., JP, BA(Com), FCA Sr. Lectr.  
Taylor, R. Y., BA(Admin), FCA †Lectr.  
Hodge, Margaret A. T., BA *Law*, FCA Lectr.  
Bailey, F. A., FCA Lectr.  
Jones, B. A., BA(Com) †Asst. Lectr.

### Adult Education, see Education

### Agricultural Economics

Thomas, W. J., MSc *Wales* Reader  
Fletcher, T. W., MSc Leeds Lectr.  
Gardner, T. W., PhD *R'dg.*, MA(Cons) Lectr.  
Kempinski, T., MA Camb. Lectr.  
Mack, M., MA *Sheff.* Lectr.  
Perkins, R. J., BA *N Staffs.*, MA(Econ) Lectr.  
Cowling, K. G., BSc(Agric) *Leeds*, PhD *Ill.* Asst. Lectr.

### American Studies

Cunliffe, M. F., MA BLet Oxon.  
(Amer. Hist. & Instn.) Prof  
Welland, D. S. R., MA PhD *Nott.*  
(Amer. Lit.) Reader  
Potter, A. M., MA *Wesleyan (Conn.)*,  
PhD *Col.* (Govt.) Sc. Lectr.

Jones, M. A., MA DPhil Oxon.  
(on leave) (Amer. Hist. & Instn.) Lectr.  
Temperley, H. R., BA Oxon., MA  
PhD *Yale* Asst. Lectr.

### Anatomy and Histology

Mitchell, G. A. G., OBE, TD, MB ChM  
DSc *Aberd.*, MSc Prof. Dir. of Labs.  
Cooper, Eugenia R. A., DSc MD  
(Histol.) Reader  
Patterson, E. L., BSc MD (Anat.) Sr. Lectr.  
Ashley, G. T., BSc MD (Anat.) Lectr.  
Gray, E. D., MA MD *Aberd.*,  
DMRE Camb., FFR  
(Radiol. & also Radiol.) Lectr.  
Dixon, A. D., BSc MDS *Belf.*, PhD  
(A. for Dental Students) †Lectr.  
Crogan, J. C. F., MB BS *Leeds*, FRCS  
(Appl. A.) Lectr.  
Kirkman, N. F., MD, FRCS (Appl. A.) †Lectr.  
Nicholson, W. A. B., BSc MB ChB,  
FRCS (Appl. A.) †Lectr.  
Toor, J. B. D., MD Lectr.  
Bulmer, D., MA MD Camb. (Anat.) Lectr.  
Williams, T. H., PhD *Wales*, MB ChB  
(Exper. Neurol.) Lectr.

\* Member of the Association of Universities of the British Commonwealth

Fisher, A. W. F., BSc MB ChB	Asst. Lectr.	Newton, P., BSc PhD <i>Not.</i>	Lectr.
Leese, J. D., MB ChB	Asst. Lectr.	Talbot, J. H., BSc Lond., PhD <i>Wales</i>	Lectr.
Peach, R., MSc PhD (Biophy.)	Asst. Lectr.	Butler, R. D., BSc <i>Durk.</i> , PhD <i>S'au.</i>	
Duckworth, T., MB ChB	Demar.		(Cytol.) Lectr.
Sutherland, Sheila D., MB ChB	Demar.	Smith, D. L., BSc PhD <i>Glas.</i>	Lectr.
Nolan, J., BA MB ChB <i>Dub.</i>	Demar.	Tuelove, B., BSc PhD <i>Steff.</i>	Lectr.
Rowley, N. S., MB ChB	Demar.	Stace, C. A., BSc Lond.	Asst. Lectr.

**Arabic**, see *Ne. Eastern Studies*

### Architecture

Henson, N. L., BArch *Rand.*

Buttle, D., MA PhD DipArch DipTP	Prof., Dir. of Sch.	Sr. Lectr.
Thornley, D. G., BA		Sr. Lectr.
Wood-Jones, R. B., BArch MA <i>Law.</i> , PhD, FSA		Sr. Lectr.
Marsden, T. L., MA PhD DipTP		Lectr.
Benson, E. S., MBE, MA DipTP, FRIBA		Lectr.
Bell, J. A. M., BArch MCD <i>Liv.</i>		Lectr.
Jenkins, F. I., BArch MA <i>Durk.</i> , MB(Arch) <i>III</i>		Lectr.
Dearden, D. G., MA		Lectr.
Stutchbury, H. E., DipTP <i>Lond.</i> , MA		Lectr.
Gibson, W. A., MA (Professional Practice)		†Lectr.
Harris, J. B., DipArch		Lectr.
Broadbent, G. H., BA		Lectr.
Archer, J. H. G.		Lectr.
Malpass, J. C. L., (Life Drawing)	†Sp.	Instr.
Brunskill, R. W., MA CertTP		Lectr.
Barlow, J. P.		Lectr.
Billingham, J. K., MAArch <i>Penn.</i> , DipTP <i>Tor.</i> , DipArch		Lectr.
2 Asses.		

### Art, History of

White, J. E. C. T., PhD <i>Lond.</i> , Pilkington Prof.		Prof.
Sewter, A. C., BSc(Econ) <i>Lond.</i> , MA		Sr. Lectr.
Rosenau, Helen, DrPhil <i>Hamburg.</i>		
PhD <i>Lond.</i>		Sr. Lectr.
Hawcroft, P. W., BA <i>Lond.</i>		Lectr.
Allgrove, Joan, MA <i>Rdg.</i>		Asst. Lectr.

### Astronomy, see *Phys.*

### Botany

Wardlaw, C. W., PhD DSc <i>Glas.</i> , Hon. DSc <i>McG.</i> , MSc		
George Harrison Prof., Dir. of Exper. Grounds		
Colbourn, J., BSc Magr <i>Belf.</i> , PhD DSc <i>Lond.</i> , FRS		
(Cryptogamus B.)		Barker Prof.
Calder, Mary G., BSc PhD <i>Glas.</i>		Sr. Lectr.
Dormer, K. J., BSc PhD <i>Lond.</i>		Sr. Lectr.
Allsopp, A., DSc PhD		
(Cryptogamus B.)		Sr. Lectr.
Simon, E. W., MA DPhil <i>Oxon.</i>		Sr. Lectr.
Hartshorne, J. N., BSc <i>Wales</i> , PhD <i>Cambr.</i> (Gnetacea)		Lectr.
Pedget, R. C., BSc PhD <i>Lond.</i>		Lectr.
Cutter, Elizabeth G., BSc <i>St. And.</i> , PhD		Lectr.
Park, D., MSc PhD		Lectr.

### Celtic

Evans, E., MA *Wales*

Lectr.

### Chemistry, see also *Physiol.* and *Technology*

Gee, G., CBE, ScD <i>Cambr.</i> , MSc, FRS		
Sir Samuel Hall Prof.		
Butch, A. J., DPhil <i>Oxon.</i> , MSc <i>Syd.</i> & <i>Manr.</i> , FRS		(Org. C.) Prof.
Lewis, J., PhD <i>Not.</i> , DSc <i>Lond.</i>		
(Inorg. C.) Prof.		
Burkhardt, G. N., MSc PhD, FRIC		Sr. Lectr.
Warhurst, E., MSc PhD		Sr. Lectr.
Baxendale, J. H., DSc		Sr. Lectr.
Skinner, H. A., BA BSc DPhil <i>Oxon.</i>		Sr. Lectr.
Barker, C. R., BSc PhD <i>Lond.</i>		
(Biol. C.)		Sr. Lectr.
Higginson, W. C. E., MA DPhil <i>Oxon.</i>		Sr. Lectr.
Campbell, I. G., BSc PhD <i>Lond.</i> (Radiochem)		Sr. Lectr.
Smith, G. F., PhD <i>St. And.</i> , MSc		Sr. Lectr.
Herbert, J. B. M., MSc		Lectr.
Quibell, T. H. H., MA PhD <i>Cambr.</i>		Lectr.
Bu'Lock, J. D., BA PhD <i>Cambr.</i>		Lectr.
Pritchard, H. O., MSc PhD		Lectr.
Allen, G., BSc PhD <i>Lond.</i>		Lectr.
Mills, O. S., BSc <i>Lav.</i>		Lectr.
Smith, D. C. C., BSc PhD		Lectr.
Colclough, R. O., BA BSc <i>Dub.</i> , PhD <i>Lond.</i>		Lectr.
Watkinson, J. G., BSc PhD <i>Lond.</i>		Lectr.
Lumb, G. A., BSc <i>Lond.</i> , PhD (Med. C.)		Lectr.
Jevons, F. R., MA PhD <i>Cambr.</i> (Biol. C.)		Lectr.
Wood, G. C., BSc PhD <i>Lond.</i> (Biochem.)		Lectr.
Brace, J. M., BSc <i>Lond.</i> , MSc PhD <i>Lond.</i>		Lectr.
Paddock, N. L., BA <i>Cambr.</i>		Lectr.
Thompson, A., BSc <i>Lond.</i> & <i>Not.</i> , PhD <i>Not.</i>		(Inorg. C.) Lectr.
Rickards, R. W., BSc <i>Syd.</i>		Lectr.
Wynn, C. H., BSc PhD <i>Wales</i> (Biochem.)		Lectr.
Allnatt, A. R., BSc PhD <i>Lond.</i>		Lectr.
Machin, D. J., BSc PhD <i>Lond.</i>		Lectr.
Jones, M. N., BSc		Asst. Lectr.
Mulder, J. R., BA PhD <i>Cambr.</i>		Asst. Lectr.
Farrar, Mrs. Kathleen R., BSc PhD <i>Lond.</i>		Demar.
Jenkins, Rev. H. O., PhD DSc <i>Wales</i> , DPhil <i>Oxon.</i>		†Demar.
Dunstan, Sonar, MSc PhD		Demar.

### Classics, see also *Thology*

Samuel, W. H., PhD <i>Cambr.</i> , MA <i>Belf.</i> & <i>Manr.</i>		(Latin) Hulme Prof.
Westlake, H. D., MA <i>Cambr.</i> & <i>Manr.</i>		(Greek) Hulme Prof.

- Zantz, G., DrPhil *Morburg*, FBA  
(Hellenistic Greek) Reader  
Huxley, H. H., MA *Cambr.* (Latin) Reader  
Bluck, R. S., MA *Cambr.*, PhD *Dlitt Edin* (Greek) Reader  
Mallow, A. N., MA *Leod* (Latin) Sr Lectr.  
Leahy, D. M., MA *Oxon* Lectr.  
Wilson, A. J. N., MA DPhil *Oxon* Lectr.  
Bradley, D. R., MA *Durh.* Lectr.  
McCall, R. C., MA *St. And.* Lectr.  
Maddox, D. M., MA *Oxon* Lectr.  
Brandwood, L., BA PhD *Leod.* Lectr.  
Knowles, Vincent, MA } Sp Lectr.  
Fisher, J. M., MA } Asst Lectr.  
Neal, G. C., MA *Cambr.* } Asst Lectr.

## Coptic

- Reynolds, Eve A. E., PhilCand *Prague*,  
DipenLangOrAnc Duple<sup>2</sup>EtSup *Paris*,  
PhD *Leu* Lectr.

## Drama

- Hunt, H. S., MA *Oxon*. Prof  
Prudhoe, J. E., MA *Cambr.* Lectr.  
Woodruff, G. J. M., BA *Brist* Asst Lectr.

## Dentistry, see below

## Economics, see also Agric. Econ

- Carter, C. F., MA *Cambr.*  
(Pol. E.) Stanley Jevons Prof.  
Williams, B. R., BA *Meib.*, MA *Adel.*  
Robert Outley Prof.  
Johnston, J., BComSc *Belf.*, PhD *Wales*  
(Econometrics) Prof.  
Mars, J., MA *Brist*, DrRarPol *Vienne*,  
MCom *Birm.*, BLitt *Oxon* Reader  
Lomax, K. S., BSc MA(Admon)  
(E. Stats.) Reader  
Martin, K., MA *Oxon*, DrPhil *Fran.*  
(Internat. E.) Sr. Lectr.  
Coppock, D. J., BA(Econ) Sr. Lectr.  
Knapp, J. A., MA *Cambr.* & *Oxon*. Lectr.  
Peters, W., MA *Aberd.*, BPhil *Oxon*. Lectr.  
Heath, J. B., MA *St. And.* Lectr.  
Lewis, J. P., BSc *Wales* Lectr.  
Lerner, Shirley W., BA *Roosevelt*, PhD *Leod.*  
(Indust. Relns.) Lectr.  
Ball, R. J., MA *Oxon* Lectr.  
Gibson, N. J., BSc(Econ) PhD *Belf.* Lectr.  
Bogg, D. D., MSc *Wis.*, BA(Econ)  
(E. Stats.) Asst. Lectr.  
Ford, J. L., MA *Liv.* Asst. Lectr.  
Millward, R., BSc(Econ) *Hull* Asst. Lectr.  
Roper, J. F. H., BA *Oxon* Asst. Lectr.

## Education, see below

## Education of the Deaf, see Education, below

## Engineering, see also Technology

- Diamond, J., BSc *Leod.*, MSc *Cambr.* &  
Mme, MIMechE (Mech. E.) Beyer Prof.  
Hall, W. B., BSc(Eng) *Leod.* (Nuclear E.) Prof.  
Horne, M. R., MA PhD ScD *Cambr.* (Civil E.) Prof.  
Rowe, P. W., BSc *Brist*, PhD *St. And.*,  
DSc (Soil Mechanics) Prof.  
Matheson, R., BSc *Leod.*, PhD *Glas.*  
Chifon Sr Lectr., Asst. Dir. of Engin  
Lebs.  
Gibson, J. E., MSc PhD *Durh.* Sr Lectr.  
Annand, W. J. D., BSc(Eng) *Glas.* Sr. Lectr.  
Livesey, J. L., DIC, BSc PhD Sr Lectr.  
Alderman, J. K., MSc PhD Lectr.  
Edwards, F. J., MSc Lectr.  
Chenell, R. F., MSc *Leod.*, PhD  
(Maths. & E.) Lectr.  
Morgan, P. G., BSc(Eng) *Leod.* Lectr.  
Neville, A. M., MSc(Eng) PhD *Leod.* Lectr.  
Price, P. H., BSc PhD *Sheff.* Lectr.  
Derrington, M. G., BSc *St. And.* Lectr.  
Cheers, F., MA *Cambr.* Lectr.  
Williams, A., BScTech Lectr.  
Stebbing, J., BSc *Leod.* Lectr.  
Jackson, J. D., BSc Lectr.  
Jennings, A., MSc (Aircraft Structures) Lectr.  
Bryan, E. R., MSc(Eng) PhD *Leod.* Lectr.  
Montague, P., BSc *Leeds* Lectr.  
Peaker, K. R., BSc(Eng) *Manc.* Lectr.  
Symmons, G. R. S., BSc *Wales* Lectr.  
Harris, M. J., BSc *Birm.* Asst. Lectr.  
Barnes, B. H., BSc(Eng) *Leod.* Asst. Lectr.  
Walton, D. G., BSc Asst Lectr.

## Engineering, Electrical, see also Technology

- Williams, F. C., CBE, DPhil *Oxon*, DSc,  
MIEE, FRSE  
(Electro-Technics) Edward Stocks  
Mansy Prof.  
Kilburn, T., MA *Cambr.*, PhD DSc  
(Computer E.) Prof.  
Cooper, R., MSc PhD Reader  
Brooker, R. A., BSc *Leod.*, MA *Cambr.*  
(Theory of Computing) Sr Lectr.  
Litting, C. N. W., BSc PhD, FIP Sr Lectr.  
Lathwaite, E. R., MSc PhD Sr Lectr.  
Edwards, D. B. G., MSc PhD Sr Lectr.  
Hoffman, G. R., BSc *St. And.*, PhD Sr Lectr.  
Piggott, L. S., MSc(Eng) *Leod.*  
Broadbent, T. E., MSc PhD Sr Lectr., Tutor  
Poppell, Cicely M., MA *Cambr.* Lectr.  
(Computing) Lectr.  
Langan, M. J., MSc Lectr.  
Typing, D., BSc Lectr.  
Eastham, J. F., MSc Lectr.  
Aspinall, D., MSc PhD Lectr.  
Jeffreys, D. C., MSc Lectr.  
Turnbull, G. F., MSc Lectr.  
Payne, R. B., MA *Cambr.*, MSc N.Z. PhD

McLean, G. W., MSc  
Townsend, J. M., BSc

Asst. Lectr.  
Asst. Lectr.

**English Language and Literature**

Kermode, J. F., MA Lit. & Mus.  
(E. Lit.) Taylor Prof.  
Brook, G. L., BA PhD Leeds, MA  
(E. Lang. & Mediev. E. Lit.) Smith Prof.  
Jump, J. D., MA Lit. (E. Lit.) Reader  
Gordon, Mrs. Ida L., BA PhD Leeds  
(E. Lang.) Sr. Lectr.  
Lees, F. N., BA (E. Lit.) Sr. Lectr.  
Leah, R. F., MA PhD (E. Lang.) Sr. Lectr.  
Cox, R. G., MA PhD Camb. (E. Lit.) Sr. Lectr.  
Hanson, C., MA Steff. (E. Lit.) Lectr.  
Pollard, A., BA Leeds, BLitt Oxon.

(E. Lit.) Lectr.  
Oliver, Mrs. Annabella M., BA Oxon.  
MA Edw. (E. Lit.) Sp. Lectr.  
Shelton, R., MA Leeds (E. Lit.) Lectr.  
Barron, W. R. J., MA BPhil PhD St. And.  
(S. Lang.) Lectr.  
Hinchliffe, A. P., MA Yale & Manc.  
(E. Lit.) Lectr.  
Beer, J. B., BD Lond., MA PhD Camb.  
(E. Lit.) Lectr.  
Chapple, A. J. V., MA Lond.  
(E. Lit.) Lectr.  
Bergson, B., MA BLitt Oxon.  
Goldman, A. M., AB Harv., MA Yale  
Asst. Lectr.  
Duncan, T. G., MA Glas. Asst. Lectr.

**French Studies**

Vinaver, E., DLitt Oxon., Dèsl Paris,  
Hon. LHD Glac., MA Oxon. & Manc.  
(F. Lang. & Lit.) Prof.  
Sutcliffe, P. E., MA PhD (Mod. F. Lit.) Prof.  
Whitehead, F., MA DPhil Oxon.  
(Old F. Lang. & Lit.) Reader  
Saunders, F. W., MA Sr. Lectr.  
Young, Margaret L. M., MA St. And.,  
Lèsl Paris, PhD †Sr. Lectr.  
Gaudon, J. A. M., Lèsl Paris, MA Sr. Lectr.  
Hampson, N., MA Oxon., DU Paris  
(F. Hist. & Instns.) Sr. Lectr.  
Gwynne, G. E., MA Wales, DU Paris  
Lectr.  
Berris, Mrs. Anne R., MA Lectr.  
Wexler, P. J., MA Camb., DU Paris  
Lectr.  
Baudard, J.-M. P., Lèsl Diphd'EtSup Rennes  
& Paris (Mod. F. Lit.) Sp. Lectr.  
Damsis, G., BA Wales, MA Lectr.  
Kennedy, Elspeth M., MA DPhil Oxon.  
Hill, Christine M., MA Oxon. & Manc.  
Lectr.  
Bogdanow, Fanni, MA PhD Lectr.  
Lavers, Mrs. Annette C. M., Lèsl  
Diphd'EtSup Paris, MA PhD Lond.  
Crawe, S. M. H., BA Dub. Lectr.  
Sandmeyer, E., Lèsl Geneva  
(Mod. F. Lit.) Asst. Lectr.  
Taverna, A. M. M., Lèsl Diphd'EtSup Paris,  
MA Camb. Asst. Lectr.  
Cahm, E. S. H., BA Camb. Asst. Lectr.  
6 Assts.

**Geography**

Crowe, P. R., BSc(Econ) Lond., PhD Glas.,  
MA Prof.  
Freeman, T. W., MA Leeds & Dub.  
(Econ. G.) Reader  
Sylvester, Dorothy, MA Lit. Sr. Lectr.  
Rodgers, H. B., MA Lectr.  
Carter, Jean, BLitt Oxon., BA Lectr.  
Duncan, J. S., MA N.Z., PhD Lond. Lectr.  
Noddie, D. L., MSc S.A. Lectr.  
Bace, W. C., MA Oxon. Lectr.  
North, G., MA Camb. Lectr.  
Johnson, R. H., BA N.Z., MA Steff. Lectr.  
Fox, D. J., BSc Lond., MA Calif.  
(on leave) Asst. Lectr.

**Geology, Palaeontology and Petrology**

Vincent, E. A., BSc PhD Rdy., MA Oxon.,  
FRIC Prof., Dir. of Labs.  
Calder, Mary G., BSc PhD Glas. Sr. Lectr.  
Nicholls, G. D., MA PhD Camb.  
(Geochem.) Sr. Lectr.  
Zusman, J., MA PhD Camb. Sr. Lectr.  
MacKenzie, W. S., MA BSc St. And.,  
PhD Camb. Sr. Lectr.  
Simpson, I. M., BSc Edw., PhD Glas.  
(Stratig.) Lectr.  
Morton, E., MSc (Appl. Geol.) †Sp. Lectr.  
Broadhurst, F. M., MSc PhD Lectr.  
Nicholson, R., BSc PhD Lond. Lectr.  
Dewey, J. F., BSc Lond. Asst. Lectr.

**German Language and Literature**

Henry Simon Prof.  
Keller, R. E., DPhil Zür., MA  
(German Lang. & Mediev. Lit.) Prof.  
Kerry, S. S., BA PhD Sr. Lectr.  
Rohi, Mrs. Freda K., BA Lond., MA Sp. Lectr.  
Wallbank, F. Rosemary E., MA Lond. Lectr.  
De Saguna, Mrs. Eda O'S., MA N.U.I.,  
DPhil Vienna Lectr.  
Blamires, D. M., BA Camb. Asst. Lectr.  
Stewart, C., BA Asst. Lectr.  
Furness, R. S., MA Wales Asst. Lectr.  
Skirne, P. N., BA Camb. Asst. Lectr.  
2 Assts.

**Government**

Mackenzie, W. J. M., CBE, LLB Edw., MA  
Oxon. & Manc. Prof.  
Chapman, B., MA DPhil Oxon. Prof.  
Grove, J. W., BSc(Econ) Lond. Sr. Lectr.  
Potter, A. M., MA Wesleyan (Conn.),  
PhD Cal. Sr. Lectr.  
Grundy, J., BA BA(Admin) Lectr.  
Hankam, H. J., MA N.Z., PhD Camb. Lectr.  
Lee, J. M., MA BLitt Oxon. Lectr.  
Erickson, J., MA Camb. Lectr.  
Bell, Coral M., BA Syd., MSc(Econ) Lond.  
Lectr.  
Whitaker, P., MA Dub., PhD Lectr.



Rose, C. R., BA *Jesus H.*, DPhil *Oxon.* Lectr.  
 Gunn, L. A., MA *Aberd.* Asst. Lectr.  
 Anderson, M., MA DPhil *Oxon.* Asst. Lectr.  
 Abdel-Rahim, M., BA *Leeds* & *Nott.* Asst. Lectr.  
 Sanderson, J. B., BA *Hull*, MA(Econ) Asst. Lectr.

**Hebrew**, see *Nr. Eastern Studies*, and  
**Theology**

**Histology**, see *Anat.* and *Histol.*

**History**, see also *Econ.* and *Theology*

Smith, R. E., MA *Cambr.* & *Manc.* (Anc. H.) Prof.  
 Goodwin, A., MA *Oxon.* & *Manc.* (Mod. H.) Prof.  
 Rupp, Rev. E. G., BA *Leeds*, MA *Cambr.*,  
 DD *Cambr.* & *Aberd.* (Eccles. H.) Prof.  
 Wilkin, T. S., MA BLitt DPhil *Oxon.* (Econ. H.) Prof.  
 Roskell, J. S., DPhil *Oxon.*, MA (Mediev. H.) Prof.  
 Stark, W., DrRexPol *Hamburg*, DrJur *Prague*,  
 MA *Edu.* (H. of Econ. Thought) Reader  
 Chalmers, W. H., MA PhD (Mod. Econ. H.) Reader  
 Pennington, D. H., MA *Oxon.* Reader  
 Henderson, W. O., MA *Cambr.*, PhD *Leeds* (Internat. Econ. H.) Sr. Lectr.  
 Ward, W. R., MA DPhil *Oxon.* †Sr. Lectr.  
 Eberhardt, Rev. A. T., DrJur *Königsberg*,  
 PhD *BD Cambr.* (Eccles. H.) Bishop Fraser Sr. Lectr.  
 Desborough, V. R. d'A., MA BLitt *Oxon.* Sr. Lectr.  
 Mussen, A. E., MA Sr. Lectr.  
 Hampson, N., MA *Oxon.*, DUPass (French H. & Instns.) Sr. Lectr.  
 Tupling, G. H., MA BSc PhD *Leeds* (Local H.) †Sp. Lectr.  
 Rodewald, C. A., MA *Oxon.* Lectr.  
 Robinson, Rev. W. G., MA *Oxon.*, BA *Leeds*,  
 BD PhD (Eccles. H.) Lectr.  
 Filicraft, Rev. J., MA (Eccles. H.) †Lectr.  
 Western, J. R., MA *Oxon.*, PhD *Edu.* Lectr.  
 Williams, P. H., MA DPhil *Oxon.* Lectr.  
 Parkin, H. J., MA *Cambr.* (Soc. H.) Lectr.  
 John, E., MA Lectr.  
 Green, E. R. R., BA BLitt *Dur.*,  
 DPhil *Oxon.* Lectr.  
 Aymer, G. E., MA DPhil *Oxon.* Lectr.  
 Leff, G., BA PhD *Cambr.* Lectr.  
 Bean, J. M. W., MA DPhil *Oxon.* Lectr.  
 Graham, A. J., MA PhD *Cambr.* Lectr.  
 Fraser, P., BA *Cambr.*, PhD *Leeds*,  
 Lectr.  
 Bunzay, C. A., MA *Cambr.* Lectr.  
 (Nr. Eastern Archaeol.) Lectr.  
 Robinson, E. H., MA *Cambr.* (Econ. H.) Lectr.  
 Faine, D. A., MA (Econ. H.) Lectr.  
 Manning, B. S., MA DPhil *Oxon.* Lectr.  
 Hyde, J. K., MA DipSecAnthrop  
 DPhil *Oxon.* Asst. Lectr.

**Horticulture**, see *Bot.*

## Italian

Aquilecchia, G., DottLett *Rome* Prof.  
 Speight, Kathleen, MLitt *Cambr.*,  
 DottLett *Florence*, MA (on leave) Sr. Lectr.  
 White, D. M., MA *Cambr.*, PhD Lectr.  
 Ralph, Shula, BA *Leeds* Lectr.  
 Looch, V., DottLett *Florence* Asst. Lectr.  
 † Asst.

## Law

Wortley, B. A., OBE, LL.M. *Leeds*,  
 Hon. DURESS, LL.D. (Jurispr. & Internat. L.) Prof.  
 Cooper, W. Mansfield, LL.M. (Indust. L.) Prof.  
 Street, H., LL.M. PhD (Engl. L.) Prof.  
 Turner, J., LL.M. *Leeds* (L. of Property) Prof.  
 Bramley, P. M., MA *Oxon.* Sr. Lectr.  
 Hesling, Edith, OBE, LL.B. †Lectr.  
 Shepherd, F. C., LL.B. †Lectr.  
 Sidebottom, H., LL.M. †Lectr.  
 Towns, F. W., LL.M. †Lectr.  
 Driver, J. E., LL.M. (Roman L.) †Hon. Lectr.  
 Thompson, D., LL.B. PhD *Nott.* Lectr.  
 Dean, M., LL.B. *Nott.* Lectr.  
 Nowell, D. G., LL.B. †Asst. Lectr.  
 Bainsley, D. G., LL.M. Asst. Lectr.  
 Cox, Diana M., LL.B. *Leeds*, LL.M. *Tulane*  
 Asst. Lectr.  
 Gilliland, J. A. D., LL.B. *Belf.* Asst. Lectr.  
 Grog, D. W., BA *Cambr.* Asst. Lectr.  
 Campbell, P. I., MA *Aberd.*, BA *Cambr.* Asst. Lectr.

## Linguistics, General

Hans, W., MA *Wales* Sr. Lectr.  
 Alberton, D. J., MA Asst. Lectr.

## Literary Studies, Comparative

Hughes, G. T., MA PhD *Cambr.* Lectr.

## Mathematics, see also Technology

Newman, M. H. A., MA *Cambr.*, MSc, FRS (Pure M.) Fielden Prof.  
 Ursell, F. J., MA ScD *Cambr.* Beyer Prof.  
 Whittle, F., MSc N.Z., DrPhil *Uppsala* (Mathl. Stats.) Prof.  
 Mehler, K., DrPhil *Fran.*, DSc, FRS (Mathl. Analysis) Prof.  
 Camm, G. L., MA DPhil *Oxon.* Reader  
 Adams, J. F., MA PhD *Cambr.* Reader  
 Illingworth, C. R., BA *Cambr.* Reader  
 Levine, S., MA PhD *Ter.* Sr. Lectr.  
 Hazelgrove, C. B., MA PhD *Cambr.*  
 (Theory of Computing) Sr. Lectr.  
 Wild, E., MA *Cambr.* Sr. Lectr.  
 Glauert, M. B., MA *Cambr.* Sr. Lectr.  
 Green, J. A., BSc *Strand*, PhD *Cambr.* Sr. Lectr.  
 Barratt, M. G., MA DPhil *Oxon.* Sr. Lectr.  
 Blind, D. R., MA *Cambr.* Sr. Lectr.  
 Birch, B. J., MA PhD *Cambr.* Sr. Lectr.  
 Gandy, R. O., MA PhD *Cambr.*  
 (Mathl. Logic) Sr. Lectr.

- Salvey, S. D., MA PhD Glas (Stats) Sr. Lectr.  
 Cohn, P. M., MA PhD Camb Lectr.  
 Chunnell, R. F., MSc Lond, PhD  
 (M. & Engin.) Lectr.  
 Goldsworthy, F. A., MSc PhD Lectr.  
 Mooton, B. R., MSc N.Z., BA PhD Camb Lectr.  
 Watson, E. J., MA Camb Lectr.  
 Priestley, M. B., MA Camb, PhD  
 (on leave) (Mathl. Stats.) Lectr.  
 Collins, W. D., BSc PhD Lond. Lectr.  
 Blackburn, N., BA PhD Camb Lectr.  
 Morland, L. W., BSc PhD Lectr.  
 Barnett, V. D., MSc (Mathl. Stats.) Lectr.  
 Fowler, D. H., BA Camb. Asst. Lectr.  
 Walker, G., BSc St. And. Asst. Lectr.  
 Tuck, E. O., BSc Adel. Asst. Lectr.

**Mechanics of Fluids**

- Owen, P. R., BSc(Eng) Lond., MSc  
 Prof., Dir. of Lab.  
 Johannesen, N. H., MSc Dr Techn Copenhagen  
 Reader  
 Zienkiewicz, H. K. Lectr.  
 Gerrard, J. H., MSc PhD Lectr.  
 Jennings, A., MSc (Aircraft Structures) Lectr.  
 Hall, I. M., MSc PhD Lectr.

**Medicine, see below****Mesopotamian Studies, see Nr. Eastern Studies****Metallurgy and Metallography, see also Technology**

- Tottle, C. R., MMet Sheff., FIM  
 Prof., Dir. of Lab.  
 Axon, H. J., BMet Sheff., DPhil Oxon. Reader  
 Leak, G. M., BSc Lond., PhD Birm., FIM  
 Sr. Lectr.  
 Shelton, R. A. J., BSc Lond. Lectr.  
 Cottell, G. A., MSc Hon. Sp. Lectr.  
 Stubbs, J. R., PhD Lond., BSc Lectr.  
 Spriggs, P. H., MSc Lond. Lectr.  
 Ridley, N., BSc PhD Durk. Lectr.  
 Elliott, R., BSc PhD Lectr.  
 Mathews, K. W., BA Oxon. †Hon. Sp. Lectr.  
 Barrand, P., BSc Lectr.  
 Bales, S., BSc Lectr.

**Music**

- Redlich, H. F., DPhil Fran. Prof.  
 Aitchison, M., MA MusB Camb. Reader  
 Cox, F. R., OBE, MA Oxon. Hon. Sp. Lectr.  
 Avery, D. Ann, MA MusB Camb. Lectr.  
 Smith, P. B., MA MusB Camb.,  
 MSc Jnllard Lectr.  
 Horsfall, B., BMus Durk., MusD †Asst. Lectr.  
 Knowles, C. †Asst. Lectr.  
 Webb, J. B., MA MusB Camb. Asst. Lectr.  
 3 Assts.

**Near Eastern Archaeology, see Hist.**

- Near Eastern Studies, see also Theology**  
 Beckingham, C. F., MA Camb. & Manc. (Islamic Studies) Prof.  
 Ullendorff, E., MA Jerusalem, DPhil Oxon. (Semitic Langs. & Lits.) Prof.  
 Weir, P. R., Lucan Phil & Hist Or Louvain, MA (Post-Biblical Jewish Studies) Lanks Reader  
 Wallenstein, M., MA PhD (Mod. & Mod. Hebrew) Reader  
 Werubetz-Möller, P., Cand Theol Copenhagen, DPhil Oxon. (Semitic Langs. & Lits.) Lectr.  
 Rubinstein, A., LL.M. (Mod. Hebrew) Sp. Lectr.  
 Latham, J. D., MA DPhil Oxon. (Arabic) Lectr.  
 El Kafawy, BA Cairo & Lond., PhD Lond. (Arabic) Sp. Lectr.  
 Donald, T., BA (Akkadian) Asst. Lectr.

**Palaography**

- Tyson, M., MA PhD †Reader

**Palaontology, see Geol.****Persian Studies**

- Boyle, J. A., BA Birm., PhD Lond. Reader

**Petrology, see Geol.****Philosophy, see also Theology**

- Emmet, Dorothy M., MA Oxon & Manc. Sr Samuel Hall Prof.  
 Prior, A. N., MA N Z Prof.  
 Mayne, W., PhD Camb. St. Lectr.  
 Henry, D. P., BA Lond., PhD Lectr.  
 Legawick, C., Mag Phil Warsaw, PhD Lond. Lectr.  
 Bell, D. R., MA St. And. Lectr.  
 Holdcroft, D., BA Camb. Asst. Lectr.  
 Parry, G. B., BSc(Econ) PhD Lond. Asst. Lectr.

**Physics, see also Engin., Electr., and Technology**

- Flowers, B. H., MA Camb. & Oxon., DSc Birm., MSc, FRS Langworthy Prof.  
 Kopel, Z., DSc Prague, MSc (Astron.) Prof.  
 Lovell, Sir Bernard, OBE, BSc PhD Brit., Hon. DSc Leic., Hon. LLD Echu, MSc, FIP, FRS  
 (Radio-Astron.) Prof., Dir. of Nuffield Lab.  
 Brown, R. H., DIC, BSc(Eng) Lond., DSc, FRS (Radio-Astron.) Prof.  
 Hall, H. E., BA PhD Camb. Prof.  
 Paul, E. B., MA Qu., PhD Camb. Prof.  
 Gilbert, C. W., MA PhD Camb. Hon. Reader  
 Braddick, H. J. J., BA PhD Camb.  
 Reader, Asst. Dir. of P. Lab.  
 Burke, J. B., BA Oxon., DSc PhD Glas., FIP Reader  
 Davies, J. O., MA Camb., PhD (Radio-Astron.) Reader  
 Edwards, S. F., MA PhD Camb. (Theoret. P.) Reader

Kahn, F. D., MA DPhil Oxon.  
(Astron.-P.) Reader  
Mendow, E. B., MA PhD Camb. Sr. Lectr.  
Newton, J. O., MA PhD Camb. Sr. Lectr.  
Herszenberg, A., BSc PhD

(Theoret. P.) Sr. Lectr.  
Jennison, R. C., BSc PhD

(Radio-Astron.) Sr. Lectr.  
Calvert, J. M., MA DPhil Oxon. Sr. Lectr.

Goldfarb, L. J. B., MSc McG., PhD Rech.  
(Theoret. P.) Sr. Lectr.

Palma, H. P., BA DPhil Oxon.  
Banbury, D. Sr. P., BSc PhD Lond. Lectr.

Jaffe, A. A., PhD Jerusalem, BSc Lectr.  
Broadbent, D., BSc Lectr.

Davies, R. D., MSc Adel., PhD Lectr.  
Roman, P., DPhil Bnd. (Theoret. P.) Lectr.

Boyle, A. J. F., BSc MEd., PhD ANU. Lectr.  
Mundl, F., MA DPhil Oxon.

(Theoret. P.) Lectr.  
Large, M. I., MA PhD Camb.

Grant, I. S., MA PhD Camb. Lectr.  
Phillips, W. R., BSc Lond., PhD Camb. Lectr.

Conway, R. G., MA PhD Camb.  
(Radio-Astron.) Lectr.

Dunning, N. J., MA Camb., BSc Lond. Lectr.  
Bodmer, A. R., BSc PhD (Theoret. P.) Lectr.

James, J. F., BSc Wales, MSc R'g Lectr.  
Thomson, J. H., MA PhD Camb.

(Radio-Astron.) Lectr.  
Leslie, J. C., BA DPhil Oxon. Lectr.

Read, P. H., BSc Lond., PhD Lectr.  
Sandiford, D. J., MA Camb., MSc PhD Yale Lectr.

Fearson, J. M., BSc Lond., PhD McM.  
(Theoret. P.) Lectr.

Hazlehurst, J., MSc PhD (Astron.) Lectr.  
Hamilton, T. D. S., MSc Rhodes Lectr.

Ellison, R. J., BSc PhD Lectr.  
Wright, I. F., MSc Melb., PhD Glas. Lectr.

Slater, C. H., BSc PhD Asst. Lectr.  
Dickinson, B., BSc Asst. Lectr.

Kay, L., BSc Asst. Lectr.  
Jacobs, D. J., BSc Asst. Lectr.

Hinrichsen, P. F., BSc Asst. Lectr.  
Murphy, J. W., BSc (Theoret. P.) Asst. Lectr.

### Physiology

Schlapp, W., MB ChB BSc PhD Edin.,  
MSc Brasenbury Prof., Dir. of Labs

Mills, J. N., MA BSc DM Oxon.,  
MD Camb. Reader

Kendal, L. P., PhD Camb., MSc  
(Physiol. Chem.) Sr. Lectr.

Morgan Jones, A., MSc MB ChB, FRCP  
(Appl. P.) Lectr.

Beswick, F. B., MB ChB (Exper. P.) Lectr.  
Thomas, S., BSc MD Wales Lectr.

Griffiths, D. L., MBE, BSc MB ChB,  
FRCS (Appl. P.) Hon. Asst. Lectr.

Hastewell, L. J., BSc PhD Durh., MB  
ChB Edin. Lectr.

Piper, Brenda M., BSc Lond. Asst. Lectr.  
Parker, J. D., BSc St And (Chem. P.) Demr.

Loxton, P., MB ChB Demr.

Bromley, Ann, BSc Demr.  
Giles, G. R., MB ChB Demr.

### Portuguese Studies, see Spanish

### Psychology

Cohen, J., PhD Lond., MA Lond. & Manc. Prof.  
MacNeill, Florence E., MA BEd PhD Edin. Sr. Lectr.

Kenna, J. C., MA Calif., BA Syd.,  
BEd Melb. (Clin. P.) Lectr.

Kitching, E. H., MD Leeds, DPM, MRCP  
†Sp Lectr.

Hansel, C. E. M., MA Camb Lectr.  
Morris, J. F., BSc(Econ) PhD Lond Lectr.

Skemp, R. R., MA Oxon., PhD Lectr.  
Ramp, E. E., BSc Lond Lectr.

Dearnaley, E. J., MSc Lectr.  
Cooper, P., BSc Asst. Lectr.

Gregory, A. H., BA Camb Asst. Lectr.

### Radio-Astronomy, see Phys

### Romance Linguistics

Hope, T. E., DSC, MA Oxon. Sr. Lectr.

### Russian Studies

Castello, D. P., MA N Z., Camb. & Manc.  
Sr. William Mather Prof.

Dumbreck, J. C., MA Glas. Lectr.  
White, Mrs. Dukhina, BA Moscow Sp. Lectr.

Berensford, M., BA Lectr.  
Du Feu, Veronica M., MA PhD Lond.,  
LucanPhilSlav Brasses Lectr.

Hollingsworth, B., BA Camb. Lectr.  
Piper, D. G. B., BA Camb. Asst. Lectr.

### Scandinavian Studies

..... Asst. Lectr.

### Semitic Studies, see Nr Eastern Studies

### Social Administration

Chester, T. E., DrJur Vienna, MA (Econ.) Prof.  
Rodgers, Mrs. Barbara N., MA Oxon. Sr. Lectr.

Rose, A. G., BSc(Econ) Lond., BLitt Oxon.,  
PhD Sr. Lectr.

Rodgers, A. B. L., BSc(Econ) Lond. Lectr.  
Heywood, Jean S., PhD Leeds, BA Lectr.

Gray, Mrs. Kathleen R., BA Tutor  
Brown, R. G. S., MA St. And. Lectr.

Jones, Mrs. Kathleen, BA PhD Lond. Lectr.  
Brown, Muriel, BA Lond. Asst. Lectr.

Maude, Mrs. Florence, BA Durh.  
Tutor Caseworker

### Social Anthropology

Gluckman, H. M., BA Lond., DPhil Oxon.,  
MA Oxon. & Manc. Prof.

Peters, E. L., BA Wales, MA Camb.,  
DPhil Oxon. Sr. Lectr.

Wason, W., BA MSc Camb., PhD  
(Sociol.) Sr. Lectr.

# MANCHESTER

1211

Turner, V. W., BA <i>Land</i> , PhD	Lectr.	Hartshorne, J. N., BSc <i>Wales</i> , PhD <i>Camb.</i>	
Frankenberg, R. J., BA <i>Camb.</i> , MA(Econ)	Lectr.	(Genetics) Lectr.	
PhD		Butler, R. D., BSc <i>Durb.</i> , PhD <i>S'low</i>	
Pons, V. G. K., MScSoc <i>Caps T.</i>	Lectr.	(Cytol) Lectr.	
PhD <i>Land</i>		Thomas, M. Pugh, BSc PhD <i>Le</i>	
		Gebbutt, P. D., BSc <i>Leeds</i> , PhD <i>Land</i>	Lectr.
		Adkew, R. R., BSc <i>Durb.</i>	Asst. Lectr.
Social Studies	Prof.	Wood, R. J., BSc PhD <i>Land</i>	Asst. Lectr.

## DENTISTRY

Spanish and Portuguese Studies	Anaesthesia		
Ramsden, H., DrenFil&Let <i>Madrid</i> , MA	Diarydale, T., MB ChB, FFARCS		†Lectr., Demr.
(Spanish Lang. & Lit) Prof.			
Raventós, Mrs Margaret H., MA <i>Edin.</i>			
Sp Lectr.	Children's Dentistry and Preventive		
Gybbon-Monypenny, G. B., MA	Dentistry		
PhD <i>Camb</i>			
Michael, I. D. L., BA <i>Land</i>	Hardwick, J. L., MDS PhD <i>Birm.</i>		
Wells, R. C., MA <i>Camb.</i>	FDSRCS	(Prov. D) Prof.	
Dixon, V. F., MA PhD <i>Camb</i>	Miller, J., DDS	Reader	
Price, R. M., MA	Hobson, Mrs Pamela, MSc LDS	†Clin. Lectr.	
Gagen, D. H., BA	Hargreaves, J. A., LDS	Hon Clin Lectr.	
Pontiero, G., MA PhD <i>Glas.</i>	Davies, T. G. H.	†Clin. Lectr.	
(Lat.-Amer. Lit) Asst Lectr.			

Asst

Technology, see below

Theology, see below

## Town and Country Planning

Kantorowich, R. H., BArch <i>Rand</i>	Prof.		
Easton, H. C., TD, MA <i>Oxon</i> , LLB			
(Town Planning Law) †Lectr			
Chadwick, G. F., MA BScTech PhD			
DipTP (on leave) Lectr.			
Jackson, J. N., BA <i>Birm.</i> , PhD	Lectr.		
Medhurst, D. F., DFC, MA	Lectr.		
Robinson, D. G., BA <i>Durb.</i>	Lectr.		
Devis, H. W. E., MSc(Econ) <i>Land</i>	Lectr.		
McLoughlin, J. B., BA <i>Durb.</i>	Lectr.		
Pedley, M. D., BA	†Lectr.		
Turner, R., BA(Econ) DipTP	†Lectr.		
Raymond, S., MScTech DipTP	†Lectr.		
Winters, A. D. J., BA <i>Land</i> , DipTP	†Lectr.		
Welsby, J. E.	†Lectr.		
Baxter, K. M., DipTP	†Lectr.		

Youth Work, see Education, below

## Zoology

Beyer Prof., Dir. of Labs

Dennell, R., DSc <i>Leeds</i> , MSc, FLS			
(Exper. Z.) Prof			
Blower, J. G., MSc	(Ecol) Reader		
Brown, F. J., MSc <i>Birm.</i>			
Sr Lectr., Asst. Dir. of Labs.			
Iles, E. J., BSc PhD <i>Birm.</i>	Sr Lectr.		
Popham, E. J., PhD DSc <i>Land</i>	Lectr.		
Kennanagh, J. H., MSc <i>Land</i>	(Exper. Z.) Lectr.		
Peel, Mrs. Edna D., MSc	†Sp Lectr.		
Evans, M. E. G., BSc PhD <i>Land</i>	Lectr.		

## Dental Prosthetics and Dental Mechanics

Mathews, E., DIC, PhD <i>Land</i> , MSc			
<i>Land &amp; Manc.</i> , DDS, FDSRCS			
(Prosthodontics) Prof., Dir. of Dept.			
McIntyre, H., MB ChB BDS, FDSRCS			
(Prosthodontics) †Clin. Lectr.			
Graham, Mrs Estelle P. M., MSc LDS			
(Clin. Prosthetics) †Lectr.			
Smith, D. C., MSc <i>Land</i> , PhD, FRIC			
(D. Materials) Lectr.			
Bates, J. F., BDS <i>Durb.</i> , MSc			
(Prosthodontics D) Lectr.			
Johnson, W., MSc LDS	(Prosthodontics D) Lectr.		
MacCulloch, W. T., BDS <i>Glas.</i> , PhD <i>Birm.</i>			
(Prosthodontics D) Lectr.			
Steffard, G. D., LDS (Clin. Prosthetics) Lectr.			
Wain, F. A., MSc	(Prosthodontics D) Lectr.		
Davies, A. K., LDS	(Prosthodontics D) Lectr.		
Wilson, H. J., MScTech PhD			
(D. Materials) Asst Lectr.			
Combs, E. G., BSc <i>Belf.</i>	(D. Materials) Asst Lectr.		

## Dental Radiology

Derbyshire, K., LDS	†Clin. Lectr.
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## Dental Surgery

Ridden, H. G., DDS <i>Melb.</i> , MSc	Prof.
FDSRCS	Sr. Clin. Lectr.
Cooke, C., LDS, FDSRCS	†Sr. Clin. Lectr.
Lewis, P. R., BDS	

U.K.—ENGLAND

Hutt, S. D., BDS <i>St. dent.</i> , MDS, FDSRCSed	Sr Lectr.
Cutledge, D. H., BDS, FDSRCS	+Clin Lectr.
Cocker, G., LDS	+Clin Lectr.
Chabreux, P., LDS	+Clin Lectr.
Turner, E. P., MSc DDS	Lectr.
Tyson, R. J., LDS	+Clin Lectr.
Stoddard, C. R., LDS, FDSRCS	+Clin Lectr.
Aston, A. B., LDS	+Clin Lectr.
Rothwell, P. S., MDS	+Clin Lectr.
Hindle, M. O., BDS	Lectr.
Ellen, A. H., BDS <i>Birm.</i> , FDSRCS	Lectr.
Rowbotham, T. C., BDS, FDSRCS	+Clin Lectr.
Oldham, L., BDS <i>Birm.</i> , FDSRCS	Asst. Lectr.
ten Bruggen Care, H. J., BDS	Asst. Lectr.
Loxley, G. W., BDS	Asst. Lectr.

**Medicine**

Padkinson, J. S., BSc MB ChB DPH, MRCP	+Lectr.
Roussak, N. J., BSc MB ChB, MRCP	+Clin Lectr.

**Operative Dentistry**

Holt, J. K., DDS <i>Northwestern</i> , MSc LDS, FDSRCS	Reader
---	--------

**Oral Surgery**

Ashcroft, G., LDS, FDSRCS	+Sr Clin Lectr
Jones, B. V., LDS, FDSRCS	Sr. Clin. Lectr.
Sealey, E. H., LDS, FDSRCS	Lectr.
Meule, A. W., BDS, FDSRCS	+Hon. Clin. Lectr.
Mellor, W. C., LDS, FDSRCS	Hon. Clin. Lectr.
.....	Asst Lectr.

**Orthodontics**

Hartley, D. T., LDS	Lectr.
Robertson, N. R. E., BDS <i>Glas</i>	Lectr.
Turner, Mrs. Barbara M. A., BDS	+Clin Lectr

**Parodontia**

Harrington, J., BDS	+Sr. Clin. Lectr.
McKenzie, J. S., LDS	+Clin Lectr.

**Surgery**

Rose, S. S., MB ChB, FRCS	Lectr., Clin. Lectr.
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**EDUCATION**

(see also School of Education, below)

**Adult Education**

Waller, R. D., CBE, MA	Prof.
Legge, C. D., BA <i>Lond.</i>	Sc. Lectr
Da Souto, P. F. De C., MA <i>Oxon.</i> (Fundamental E. & Community Devel.)	Lectr.

**Audiology and Education of the Deaf**

Bwing, Sir Alexander, MA <i>Edin.</i> , PhD Ellis Llywy Jones Prof., Dir. of Dept.	
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Watson, T. J., MC, MA PhD <i>Edu.</i>	Sr. Lectr.
Carroll, Eleanor L., BA	Lectr.
Williamson, Marion B., MA <i>Glas</i> , MED	Lectr.
Messley, Mrs. Nora H., MED	Lectr.
Wellman, D. C., MA <i>Lond.</i> , BA PhD	Lectr.
Redgate, G. W., BA DipEd	Lectr.
John, J. E. J., BSc <i>Wales</i> (Audiol.)	Lectr.
Howarth, Jean N., MA	Lectr.
Taylor, I. G., MD DPH	(Clin. Audiol.) Lectr.
Thomas, H. (Architectural Acoustics)	Hon. Sp. Lectr.
Owrid, H. L., MA PhD	(Audiol.) Lectr.
Palmer, Jean, BA <i>Lond.</i>	Lectr.
Bwing, Lady, CertTDeaf	Hon. Lectr.

**Education**

Oliver, R. A. C., BEd PhD <i>Edu.</i> , MA <i>Edu.</i> & <i>Music</i>	
Sarah Polden Prof., Dir. of Dept	
Wiseman, S., BSc MED <i>Durh.</i> , PhD	Prof.
Warburton, F. W., BA <i>Rdg.</i> , MA	PhD <i>Lond.</i>
Stafford, B., JP, BSc <i>Lond.</i> , BA (Admin)	Sr Lectr.
Blyth, W. A. L., MA <i>Comb.</i> , MED <i>Nott.</i> , PhD	Sr Lectr.
Gregory, Alys L., MA PhD	Lectr.
Newbitt, J. E., MA <i>Bol.</i> , PhD	Lectr.
Moore, N., MA <i>Oxon.</i>	Lectr.
Coltham, Mrs. Jeannette B., MA <i>Oxon.</i> , PhD	Lectr.
Crossland, R. W., BSc MED	Lectr.
Gosner, F., MSc <i>Sheff.</i>	Lectr.
Claypole, Mrs. Barbara M. (Speech E.)	Lectr.
Showell, M. E. J., MA <i>Lond.</i> , BSc	Lectr.
Butcher, H. J., BA <i>Card.</i> , PhD DipEd	Lectr.
Gaskell, W., BSc	Lectr.
Lunzer, E. A., MA <i>Oxon.</i> , PhD <i>Birm.</i> (Child Psychol.)	Lectr.
Hearn, Mrs. Florence M., MA <i>Comb.</i> Sp.	Lectr.
Hickman, A. T., BA <i>Lond.</i> , BMus <i>Durh.</i>	Lectr.
Percival, T. S., BA <i>Lond.</i> , MED <i>Durh.</i>	Lectr.
Robinson, Nora, BA MED DipEdPsych	Lectr.
Harrison, J. L., MA <i>McG.</i> , MLitt <i>Cambr.</i>	Lectr.
Harrison, D. F. (Speech E.)	Lectr.
Sampson, Olive C., MA BEd <i>Edu.</i>	Lectr.
Roberts, G. R., MA <i>Wales</i>	Lectr.
Entwistle, H., BSc (Econ) <i>Lond.</i> , MED	Lectr.
Stephenson, N. J., BA <i>Oxon.</i> , DipEd <i>Lond.</i>	Lectr.
Cashdan, A., MA <i>Oxon.</i> , BEd <i>Bol.</i> (Handicapped Children)	Lectr.
.....	
Harper, R. St. G. T., MA <i>Oxon.</i>	Sr. Lectr., Dir. of Dept.
Steel, W. L., MA EdB <i>Glas.</i>	Lectr.
McNair, D., MED	Lectr.
Strutt, Betty E., DipEd	Lectr.
Heron, Joyce M.	Lectr.
Macdonald, A. I.	Asst. Lectr.

## Youth Work

Smith, C. S., MSc(Econ) PhD Lond.  
Dir. of Studies

## MEDICINE

(for subjects of first a yrs.—Anat., etc., see above)

## Anaesthesia

Brennan, H. J., MD, FFARCS  
†Lectr., Dir. of Sub-Dept.  
Dunsdale, T., MB ChB, FFARCS †Tutor  
Hunter, A. R., MD Glas., FRFPGlas, †Tutor  
FFARCS †Tutor  
Culbert, T. D., MB ChB Edin., FFARCS †Tutor  
Johnstone, M. W., MD BAO Belf., †Tutor  
FFARCS †Tutor  
Jones, W. K., FFARCS †Tutor

## Bacteriology

Colford, P. J., MD Lond., MRCP  
Prof., Dir. of Dept.  
Preston, N. W., MD DupBact. †Lectr.  
Hancock, R., BA PhD Camb. †Lectr.  
Taylor, G., MD (Immunol.) †Lectr.  
Evans, P., BSc MB BCh Wales †Lectr.  
Sturland, R. M., MA MB BChir Camb. †Lectr.  
Hutton, M. P., MSc (Chem. B) Asst. Lectr.

## Cardiology, see Med.

## Child Health

Gausford, W. F., MD Lond., MSc, FRCP  
(C.H. & Pediatrics) Prof., Dir. of Dept.  
Holzel, A., MD Prague Reader  
Pether, T. N., MB ChB DPH, MRCP †Lectr.  
Guthrie, Mrs. Sylvia K., MD, MRCP †Lectr.  
Thomson, M. L., MA MD Aberd., FRCP †Lectr.  
Komrower, G. M., TD, MB ChB, FRCP †Lectr.  
Pitterson, W. H., MD Belf. †Lectr.  
Feldman, G. V., MB ChB, MRCPed †Lectr.  
Cavanagh, Mrs. Florence, MB BS Med.,  
BSc, FRCSd †Hon. Lectr.  
Guthrie, A. N., MA MCh Oxon.,  
FRCS †Hon. Lectr.  
Hexton, H. A., MD ChM St And., FRCS †Hon. Lectr.  
Healop, T. S., MB ChB, FRCS (also Surg.) †Hon. Lectr.  
Walman, B., MD, MRCP †Hon. Lectr.  
Jellies, A., MD Liv., FRCS †Hon. Lectr.  
Schwarz, V., BSc Lond., PhD  
(Chem. Pathol. also Pathol.) Lectr.  
Watson, G. H., BSc MB ChB, MRCP †Lectr.  
Mackay, R. I., BSc MB ChB, MRCP †Lectr.  
Hartley, J. B., MD Durk., DMRE Camb.,  
FPR (Radiol.) †Lectr.  
Mascall, D., BSc MD Glas., MRCP †Hon. Lectr.  
Goldberg, H.-M., MB BS Lond., FRCS †Hon. Lectr.

Marsden, H. B., MB ChB  
(Paediatric Pathol.) †Hon. Lectr.  
Steward, J. K., MD, MRCP (also Pathol.) Lectr.

Feld, Constance E., MD Lond., MRCP  
Hon. Clin. Lectr.

## Dermatology

Garrett, M., MB BS Lond., MRCP †Lectr.  
Auckland, G., MB BS Lond. †Asst. Lectr.  
Portnoy, B., MD †Asst. Lectr.

## Forensic Medicine

Manning, G. B., BSc St And., MB  
ChB Liv., FRIC †Lectr.

## Haematology, see Med.

## Infectious Diseases

Liddle, D. C., MB ChB Glas. †Lectr.

Medical Ethics and Conditions of  
Medical Practice

Fay, H. P., MB ChB †Lectr.

## Medicine

Black, D. A. K., BSc MD St And., FRCP  
Prof., Dir. of Dept.  
Platt, Sir Robert, Bt., MD Sheff., Hon. MD  
Brist., Hon. L.D. Sheff. & Belf., MSc,  
FRCP †Prof.  
Lane, R. E., CBE, MD Lond., MSc,  
FRCP (Occup. Health) †Prof.  
Kellgren, J. H., MB BS Lond., MSc,  
FRCP, FRCS  
(Rheumatol.) Prof., Dir. of Rheum. Res.  
Centre  
Stanbury, S. W., MD, FRCP Reader  
Morgun Jones, A., MSc MB ChB, FRCP  
(Cardiol.) †Reader, Dir. of Cardiol.  
Sub-Dept.  
Jeffrey, M. R., BA Camb., MD Camb. &  
Tulane, MRCP  
(Rheumatol.) Sr. Lectr., Asst. Dir. of  
Clin. Section of Rheum. Res. Centre  
Ferguson, F. R., MD DPH, FRCP Lectr.  
Brookbank, W., MA MD Camb., FRCP  
†Lectr., Dean of Clin. Studies.  
Don, C. S. D., MD Aberd., FRCP †Lectr.  
Howat, H. T., MD St And., FRCP †Lectr.  
Lewton, R. W., BSc MD, FRCP †Hon. Lectr.  
Issels, M. C. G., MSc MD, FRCP  
(Haematol.) Lectr., Dir. of Haematol.  
Sub-Dept.  
Wade, H. J., BSc MD, FRCP †Hon. Lectr.  
Oelbaum, M. H., BSc MD, MRCP †Hon. Lectr.  
Olesky, S., MD Wash., MSc MB ChB,  
MRCP †Hon. Lectr.  
Robinson, W., MC, MD Leeds, MRCP †Hon. Lectr.  
Emery, E. W., BSc PhD Lond.  
(Med Phys.) Lectr.  
Parkinson, J. S., BSc MB ChB DPH,  
MRCP (Med. for Dent. Students) †Lectr.

- Roussak, N. J., BSc MB ChB, MRCP  
(Clin. Med. for Dent. Students) †Lectr  
Malcolm, D., MB ChB *Edu.*  
(Occupnl. Health) †Hon. Lectr  
Lee, W. R., MB BS *Leeds*  
(Occupnl. Health) Lectr  
Chapman, J. A., BSc *Leeds*, PhD *Cambs*  
(Biophys. in Dept. of Rheumatol.) Lectr  
Popert, A. J., MB BS *Leeds*, MRCP  
Clin. Section of Rheum. Res. Centre, Lectr  
Stratton, F., DSc MD DPH  
(Human Sci.) Lectr  
Turner, D., PhD *Leeds*, MSc  
(Occupnl. Hyg.) †Hon. Lectr  
Lumb, G. A., BSc *Leeds*, PhD  
(Med. Chem.) Lectr.  
Longson, D., MB ChB, MRCP  
(Clin. Endocrinol.) †Lectr  
Wade, E. G., BSc MD, FRCP (Cardiol.) Lectr  
Wood, G. C., BSc PhD *Leeds*  
(Biochem. in Dept. of Rheumatol.) Lectr.  
Howell, J. R. L., BSc PhD MB BS *Leeds*. Lectr.  
Wynn, C. H., BSc PhD *Wales*  
(Biochem. in Dept. of Rheumatol.) Lectr  
Williams, R. T., BA MB BChir *Cambs*,  
MRCP Lectr  
Howat, G., MB ChB, MRCP (Cardiol.) Lectr  
Bowker, J. R., MB ChB *Leeds*  
(Occupnl. Health) †Hon. Asst. Lectr.  
Hughes, G. O., MC, MB ChB *Leeds*, DPH *Leeds*  
(Occupnl. Health) †Hon. Asst. Lectr.  
Scott, T. S., MD *Glas.*  
(Occupnl. Health) †Hon. Asst. Lectr.  
Roscoe, Margaret H., BSc PhD *Leeds*, MB  
ChB Res. Asst., Tutor  
Dedwell, Beatrice (Nursing Technique) Demr  
Berlyne, G. M., MB ChB, MRCP Tutor

### Neurology

- Ferguson, F. R., MD DPH, FRCP  
†Reader, Dir. of Neurol. Sub-Dept  
Smyth, G. G. E., MD, FRCP  
(Med. N.) †Lectr.  
Liveredge, L. A., MD *Durham*, BA BSc MB  
ChB, FRCP (Med. N.) †Lectr

### Neuro-Surgery, see Surg

### Obstetrics and Gynaecology

- Morris, W. I. C., MB ChB *Edu.*, MSc,  
FRCSd, FRCOG Prof., Dir. of Dept.  
Reader  
Langley, F. A., MSc MB ChB  
(Obstetrical & Gynaecological Pathol.)  
Reader  
Bailey, K. V., MC, MD, FRCOG, MRCP  
(Clin. Obstet. & Gynaecol.) †Lectr.  
Gerrard, E. A., MD, FRCOG  
(Clin. Obstet. & Gynaecol.) †Lectr  
Newton, R., MD, FRCOG  
(Clin. Obstet. & Gynaecol.) †Lectr  
Lichert, Katharine L., BSc MB ChB, FRCS  
(Clin. Obstet. & Gynaecol.) †Lectr

- Bussell, R. W., MD  
(Clin. Obstet. & Gynaecol.) †Lectr  
Hartley, J. R., MD *Durham*, DMRE *Cambs*,  
FFR (Radial, also Child Health) †Lectr  
Rickards, C. E. B., MB ChB, FRCOG †Lectr  
Pitgerald, T. B., DSc, MB ChB *Bow*,  
FRCSd  
(Clin. Obstet. & Gynaecol.) †Lectr.  
Thomson, R. M., MB ChB Lectr.

### Ophthalmology

- Duthie, O. M., MD, FRCS  
†Reader, Dir. of Ophthalmol. Sub-Dept.  
Naylor, E. J., MScTech PhD  
(Ophthalmic Optics) Res. Fellow  
†Hon. Lectr. (Clin. Ophthalmol.)  
James, F., BSc MD  
Scott, A. S., MB ChB *Glas.*, FRCSEd  
Smith, S. B.  
Blaxter, P. L., MA MB BChir *Cambs*,  
FRCS  
Lecturer  
Dalgleish, R., MB BCh *Leeds*, FRCS

### Otolaryngology and Audiology

- Lambert, V. P., MD ChM, FRCS  
(Otolaryngol.) †Prof., Dir. of Dept.  
Ewing, Sir Alexander, MA *Edu.*, PhD  
(Edison, of the Deaf) Elias Lloyd Jones  
Prof.  
Lawson, H. P., FRCSd  
(Clin. Otolaryngol.) †Hon. Lectr.  
Young, N. A. J., MB ChB, FRCSd  
(Otolaryngol.) †Lectr.  
John, J. E. J., BSc *Wales* (Aural) Lectr.  
Gward, H. L., MA PhD (Aural) Lectr.  
Harrison, K., MD, FRCS  
(Clin. Otolaryngol.) Hon. Lectr.  
Taylor, I. G., MD DPH (Clin. Aural) Lectr.  
Chadwick, D. L., MD, FRCS  
(Clin. Otolaryngol.) †Hon. Lectr.  
Brown, Betsy, MB ChB *Glas.*, FRCS  
(Otolaryngol.) Lectr.  
Stride, R. D., MB ChB *Bristol*, FRCSEd  
(Otolaryngol.) Lectr

### Pathology and Pathological Anatomy, see also Obstet. & Gynaecol., and Ophthalmol

- Campbell, A. C. P., MB ChB *Edu.*, MSc,  
FRCPd (Pathol. & P. Anat.) †Proctor Prof  
Whithead, R., DSc MD Reader  
Langley, F. A., MSc MB ChB  
(Obstetrical & Gynaecological Pathol.)  
Reader  
Ball, J., BSc MD  
(in Dept. of Rheumatol.) Sr. Lectr  
Yates, P. O., MD (Neuro-P) Sr. Lectr  
Gwenlock, A. H., MSc MB ChB PhD  
(Chem. P.) Sr. Lectr.  
Williams, G., MD *Sh. And.* Sr. Lectr  
Varley, H., MSc (Clin. P.) †Hon. Lectr.  
Jennison, R. F., MD *Leeds*, MRCP  
(Clin. P.) †Hon. Lectr.  
Davson, J., MB BS *Leeds* †Hon. Lectr.

Schwarz, V, BSc Lond., PhD (Chem. P.) Lectr.  
 Baker, S. B. de C., MD Lectr.  
 Steward, J. K., MD, MRCP  
 (also Child Health) Lectr.  
 Ellis, Mrs. Margaret Redford, BSc PhD  
 (Chem. P.) Lectr.  
 Curran, B., MB BS Lond.  
 Williams, G. E. G., MA MB BChir Camb.  
 MRCP Lectr.  
 Jackson, F. B., MB ChB  
 (Clim. P.) Hon. Asst. Lectr.  
 Coburn, J. G., BSc MD  
 (Dermatol., Histo-Pathol.) †Asst. Lectr.  
 Holt, Shirley, MB ChB Asst. Lectr.  
 Fox, H., MB ChB Asst. Lectr.  
 Platt, D. S., MSc †Dent.

### Pharmacology, Materia Medica and Therapeutics

Macdonald, A. D., MA MD Edin., MSc Lect. Prof.  
 Wulick, L., MD Bras. (Pharmacol.) Lectr.  
 Jackson, H., MSc MB ChB PhD  
 (Exper. Chemotherapy) †Hon. Lectr.  
 Hunter, A. R., MD Glas., FRFSGlas.,  
 FFARCS (Pharmacol.) †Hon. Lectr.  
 Starnes, G. A., MSc (Pharmacol.) Asst. Lectr.

### Pharmacy

Bullock, K., MSc PhD, FRIC Prof.  
 Melville, C., BPharm Lond., PhD Sr. Lectr.  
 Ragby, G. J., BSc Lond., MSc PhD  
 DipBact. Sr. Lectr.  
 Woodhead, H. B., MSc Lectr.  
 Bellis, D. M., BSc PhD Lectr.  
 Tullentire, A., MSc PhD Lectr.  
 Thomas, J., MSc PhD Lectr.  
 Stoker, J. R., MSc Asst. Lectr.  
 Robinson, J. B., MSc Asst. Lectr.  
 Dickinson, N. A., BPharm Lond. Asst. Lectr.  
 Bennett, G. G., MSc Asst. Lectr.  
 Clough, D., BSc Dent.  
 Hambleton, R., BSc Dent.  
 Chiorl, C. O., BSc Draks, MSc

### Preventive Medicine, see Soc. & Prev. Med

### Psychiatry

Anderson, E. W., MD Edin., DPM Lond.,  
 MSc, FRCP Prof., Dir. of Dept.  
 Hoernig, J., MD Pragae, DPM Lond. Reader  
 Kitching, E. H., MD Leeds, MRCP †Lectr.  
 Markowe, M., MD DPH Lond. †Lectr.  
 Kenna, J. C., MA Camb., BA Syd.  
 BEd Med. (Clim. Psychol.) Lectr.  
 Blair, R. A., MB ChB Glas., FRFSGlas.  
 (Clim. P.) Lectr.  
 Malloy, T. R., MD Balt. (Child P.) Lectr.  
 Mather, N. J., de V., MA Oxon., MB ChB  
 †Lectr.  
 Cunningham, R. C., MB ChB DPH Glas.,  
 DPM (Mental Deficiency) †Lectr.

Hamilton, Marian W., BA Lond. & Glas.  
 (Psychiatric Soc. Work) Lectr.  
 Reed, G. F., MA Camb. (Clin. Psychol.) Lectr.  
 Calder, W., MB ChB Edin., DPM Lond.  
 (Criminal P.) Lectr.  
 Hopkinson, G., MB ChB DPM Lectr.  
 Harris, F. J., BA Glas., CertPsychSocWorke  
 (Psychiatric Soc. Work) Lectr.  
 Wadsworth, W. V., BSc MB ChB DPM,  
 MRCP †Asst. Lectr.  
 Young, R. M., MB ChB DipPsych  
 Edin. (Clim. P.) †Asst. Lectr.

### Radiology

Gray, E. D., MA MD Aberd., DMRE Camb.,  
 FFR †Lectr., Dir. of Radiol. Sub-Dept.  
 Meredith, W. J., MSc, FFP  
 (Radiol. Phys.) †Hon. Lectr.  
 Reed, R. G., MB ChB DMRE Lrv., FFR  
 †Asst. Lectr.  
 Locke, G. B., MB ChB, FFR †Asst. Lectr.  
 Widding, J. H., MB ChB †Hon. Asst. Lectr.  
 Fawcett, J. B. †Hon. Asst. Lectr.  
 Stephenson, S. K., BScTech  
 (Radiol. Phys.) Tutor

### Radiotherapy

Dobbie, J. L., BA DMRE Camb., MB ChB  
 Edin., FFR (Clim. R.) Lectr.  
 Eason, E. C., MD Glas., FFR †Lectr.  
 Cole, Mary P., MSc MD Balf., FFR  
 †Asst. Lectr.  
 Warrington, H. C., MB ChB, FFR †Asst. Lectr.  
 Gibb, R., MB ChB Aberd., FFR †Lectr.  
 Fountain, R. C. S., MA MB BChir Camb.,  
 FFR Tutor  
 Shearsh-Davies, E., MA MB BChir Camb.,  
 FRCS, FFR †Tutor

### Rheumatic Disease, see Med. and Pathol.

### Social and Preventive Medicine

Brockington, C. F., MA MD DPH Camb.,  
 MSc, MRCP Prof., Dir. of Dept.  
 Logan, R. F. L., MD Belf., CPH, MRCP Reader  
 Sussner, M. W., MB BCh Lond., MRCPed  
 Sr. Lectr.

Gawne, S. C., MD Lond., DPH Liv.  
 (Pub. Health Admin.) †Lectr.  
 Brown, C. Metcalfe, MD Glas., DPH  
 (Prev. Med.) †Lectr.  
 Burn, J. L., MD DHY DPH Durk.  
 (Pub. Health) †Lectr.  
 Grant, A. W., MScTech  
 (Pub. Health Engin.) †Lectr.  
 Adelman, A. M., MD Lond. (Med. Stat.) Lectr.  
 Kuchlik, A., MB ChB Lond., MRCP †Lectr.  
 Lession, Joyce E., MB ChB DPH Asst. Lectr.  
 Wilkie, Elizabeth E., BA Lond.

Health Visitor, Tutor  
 Nurse Tutor

### Surgery

Boyd, A. M., MB BS Lond., MSc, FRCS  
 Prof., Dir. of Dept.



Riddell, A. G., MBE, MS Lond., FRCS Reader  
 Holt, R. L., OBE, MD, FRCS {Lectr.  
 Simmons, H. T., BSc MD ChM, FRCS {Lectr.  
 Nicholson, W. F., MBE, MA MD  
 MChir Camb., FRCS {Lectr.  
 Moore, T., MS MD Durb., FRCS {Lectr.  
 Johnson, R. T., OBE, MA MB BChir Camb.,  
 FRCS

(Neuro-S.) {Lectr., Dir. of Neuro-  
 Surg. Sub-Dept.

Jennett, W. B., MB ChB Lau., FRCS  
 (Neuro-S.) Lectr.

Goffiths, D. Ll., MBE, BSc MB ChB,  
 FRCS

(Orthop. S.) {Lectr., Dir. of Orthop. S.  
 Sub-Dept.

Chamley, J., BSc MB ChB, FRCS  
 (Clin. Orthop. S.) {Hon. Lectr.

Sayle-Creer, W., MB MChOrth Lau.,  
 FRCS (Orthop. S.) {Hon. Lectr.

Cullen, C. H., MCh Belf., FRCS, FRCSI  
 (Orthop. S.) {Hon. Lectr.

Wilson, D. S. P., MA MCh BAO Dub.,  
 FRCS, FRCSI (Urol. S.) {Lectr.

Heslop, T. S., MB ChB, FRCS  
 (Clin. S.) {Hon. Lectr.

Jelly, G. O., MA MCh Oxon., FRCS  
 (Clin. S.) {Hon. Lectr.

Nicholson, W. A. B., BSc MB ChB,  
 FRCS (Clin. S.) {Hon. Lectr.

Ross, S. S., MB ChB, FRCS  
 (Also Lectr. in Surg. for Dent. Stu-  
 dents) (Clin. S.) {Hon. Lectr.

Chapman, A. H. R., MBE, MB BS  
 DSc Med., FRCSed

(Clin. S.) {Hon. Lectr.

Ancombe, A. R., MS Lond., FRCS {Lectr.  
 Toerance, H. B., ChM Edin., FRCSed {Lectr.

Thompson, H., MB ChB MChOrth Lau.,  
 FRCSed (Orthop. S.) Lectr.

Orr, W. McN., BA MB BCh BAO Dub.  
 (Clin. S.) Tutor

Jones, P. H., MVO, FRCS {Lectr.  
 Dutton, J. E. M., MB BS Durb., FRCS  
 (Neuro-S.) Lectr.

**Surgical Pathology, sec Surg.**

**Tuberculosis**

Wilson, T. McS., MC, MB ChB Edin.  
 {Asst. Lectr.

Turnbull, F. W. A., MB ChB Edin.  
 {Asst. Lectr.

**Venerical Diseases**

Laird, S. M., BSc MD Glas., DPH Lau.,  
 FRPSCGlas {Lectr.

Watt, L., MD Aberd. {Tutor

## TECHNOLOGY

(at the Manchester College of Science &  
 Technology)

(see also Engineering, above)

Bowden, B. V., MA PhD Camb., MIEE  
 Principal of Coll. of Sci. and Technol.,  
 Dean of Fac.

## Biochemistry

Eddy, A. A., MA DPhil Oxon. Prof

Izall, A. N., MScTech PhD Lectr.

Rousell, E. V., MA PhD Camb Lectr.

Dalby, A., BSc Lond., PhD Leeds Lectr.

Hodgson, B., BSc PhD Leeds Lectr.

Indge, K. J., BScTech Asst. Lectr.

McIntosh, Philippa M., BSc Birm.,  
 MS Camb. Asst. Lectr.

Carnie, J. A., BSc PhD Aberd. Asst. Lectr.

a Demara.

## Building

Harper, D. R., BArch Lau., PhD Cape T.,  
 MScTech, FRIBA Prof., Dir. of Labs.

McDonald, J. R. A. Lectr.

Dalworth, R. Lectr.

Garrett, C. H., BScTech Lectr.

Barnes, V. C. Lectr.

Boucher, C. T. G., MScTech PhD Lectr.

Harwood, T. A. (Quant. Surveying) Lectr.

McKay, J. K., BA BScTech Lectr.

Burgess, R. A., BArch Lau. Lectr.

Simpson, J. W., BSc Lond. Lectr.

Jones, J. H. C., BA Camb. (Indust. Des.) Lectr.

## Chemical Engineering, Fuel Technology and Metallurgy

Mosson, F., MScTech PhD DSc, FRIC  
 (Chem. E.) Prof., Dir. of Labs.

Entwistle, K. M., MSc PhD (Metall.) Prof.

Ross, T. K., MSc PhD Lond. (Chem. E.) Reader

Norman, W. S., MSc Lau., PhD Lond. (Chem. E.) Reader

Holness, H., MSc Leeds, FRIC  
 Sr. Lectr., Asst. Dir. of Labs.

Berry, H. J., BSc(Eng) PhD Lond., FIM  
 (Metall.) Sr. Lectr.

Stainthorp, F. P., PhD Lond., BScTech  
 (Chem. E.) Sr. Lectr.

Evans, P. E., MA PhD Camb. (Metall.) Sr. Lectr.

Handford, C., MMet Sheff., FIM  
 (Metall. & Assaying) Lectr.

Bagg, D. G., BSc Lond., FRIC  
 (Chem. E.) Lectr.

King, P. J., BSc PhD Birm. (Chem. E.) Lectr.

Sagaria, A., LicenCQ Barcelona,  
 PhD Birm. (Fuel Technol.) Lectr.

Curtis, C. A., DiplIngChem DrTechSc  
 E T H Zurich (Chem. E.) Lectr.

Scully, D. B., MA Oxon., BSc PhD Lond.  
 (Fuel Technol.) Lectr.

Rushton, A., MScTech (Chem. E.) Lectr.

Kitchingman, W. J., BSc Sheff., MScTech  
 PhD (Metall.) Lectr.

Gay, B., BSc PhD Birm. (Chem. E.) Lectr.

Abrams, H. J., BSc Wales, BSc(Econ) Lond.,  
 DipChemEng U.C. Lond. (Chem. E.) Lectr.

Clegg, G. T., MScTech (Chem. E.) Lectr.

Menzies, I. A., BSc St And., DIC,  
 PhD Lond. (Corrosion Sci.) Lectr.

Adams, R. W., BSc Lond., MScTech  
(Metall.) Lectr.  
Poolethwaite, J., MScTech (Chem. E.) Lectr.  
Haque, B., BSc Birm., DipChemEng  
(Chem. E.) Lectr.  
Loh, S. T., BSc Shanghai, PhD Birm.  
(Chem. E.) Lectr.  
Wood, G. C., MA PhD Camb  
(Chem. E.) Lectr.  
Edwards, R. J., MScTech (Metall.) Lectr.  
Rolls, R., MSc Durh (Metall.) Lectr.  
Newall, R. H., BSc PhD (Metall.) Lectr.  
Porter, A. B., BSc Birm. (Chem. E.) Lectr.  
Bell, F. D., MScTech (Metall.) Asst. Lectr.  
3 Demes

## Chemistry, see also p. 1205

Hasseldine, R. N., DSc PhD Birm., MA  
ScD PhD Camb., MScTech, FRIC  
Prof., Dir of Labs.  
Neale, S. M., MSc Lds., DSc  
(Macromolecular C.) Reader  
Baddley, G., MSc PhD Suff., DSc,  
FRIC (Org. C.) Reader  
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FRS Hon. Reader  
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FRIC (Phys. C.) Sr. Lectr.  
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DrPhil Vienna Sr. Lectr.  
Pekins, B. A., DIC, BSc Lond.,  
PhD Lond. & Camb. Sr. Lectr.  
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Sr. Lectr.  
Kakabadse, G. J., Dupling Dring  
T.H. Birm. Lectr.  
Holt, G., MScTech PhD Lectr.  
Thompson, A. R., BScTech PhD  
(Colouring Matters) Lectr.  
Croft, P. C., BSc PhD Lond. Lectr.  
Barnsdale, G. W. R., MA BSc DPhil Oxon  
Lectr.  
Dunn, A. S., BSc Aberd., PhD Birm. Lectr.  
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Crowder, M. M., MScTech Lectr.  
Haslop, R. B., MSc Durh., FRIC Lectr.  
Simmons, R. F., BSc PhD Lond. Lectr.  
Hanton, G. S., BScTech PhD Lectr.  
Banks, R. E., BSc PhD Durh. Lectr.  
Lee, J., BSc PhD Lond. Lectr.  
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Gibson, M. S., MA DPhil Oxon Lectr.  
Tueschmidt, D. W., MA BSc DPhil Oxon.  
Tait, P. J. T., BSc PhD Aberd. Lectr.  
Fields, R., MA Camb., PhD Lectr.  
Lever, A. B. P., BSc PhD Lond. Lectr.  
Green, M., BSc Hull, PhD Lond. Lectr.  
Brown, J., BSc Lond. Asst. Lectr.  
Robinson, P. J., BSc Asst. Lectr.  
Rasbitt, J. W., BSc Lond. Demr.

Lees, W. A., BScTech PhD Demr.  
Pedley, I. B., MSc PhD Asst. Lectr.  
Taylor, D. R., BA Camb. Asst. Lectr.  
Murray, A. W., BSc Aberd. Asst. Lectr.  
McDonnell, A. O., MA DPhil Oxon. Asst. Lectr.  
Flowers, W. T., BA Camb. Asst. Lectr.  
Tipping, A. E. Asst. Lectr.  
6 Demes.

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Manc. Prof., Dir of Labs.  
Turner, H. A., MSc Suff., FRIC, FTI Reader  
Hudson, F. L., PhD Calif., MSc, FRIC  
(Papermaking Technol.) Sr. Lectr.  
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Sparke, L. C., BSc PhD Lond. Lectr.  
Johnson, Alan, MScTech PhD Lectr.  
Kirk, L. A., MScTech (Paper Technol.) Lectr.  
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(Paper Technol.) Lectr.  
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Thompson, A. B., BA Camb. †Sp. Lectr.  
Miles, W. C., PhD Lond. Lectr.  
Touman, A. B., BSc Birm., PhD  
(Paper Technol.) Lectr.  
Guthrie, J. C., MSc Wales, FIP †Sp. Lectr.  
Corte, H., PhD Heidel. (Paper Sci.) †Sp. Lectr.  
Aspland, J. R., MSc Lond. Asst. Lectr.  
3 Demes.

## Engineering, Electrical, see also p. 1206

Adams, C., MSc(Eng) Lond., DSc Prof.  
Rhoderick, E. H., MA Oxon., PhD Camb.,  
FIP Prof.  
Hancock, N. N., BSc(Eng) Lond.,  
MScTech PhD Sr. Lectr.  
Attres, V. H., BSc(Eng) Lond. Sr. Lectr.  
Hindmarsh, J., BSc(Eng) Lond. Lectr.  
Barrett, N. M., MScTech Lectr.  
Perry, F. A., MScTech, MIEE  
(High Voltage E.) Sp. Lectr.  
Taylor, P. L., MA Camb.  
(Automatic Control) Sp. Lectr.  
Mathews, P., BA Camb. Sp. Lectr.  
Nellist, B. D., MScTech PhD Lectr.  
Horsley, B., BSc Birm., MScTech Lectr.  
Rawcliffe, J., MScTech Lectr.  
Gledhill, C. S., BScTech Lectr.  
Baker, W. P., BSc(Eng) Lond.  
(High Voltage E.) Sp. Lectr.  
Walker, F., BSc Edin. Sp. Lectr.  
Kuffel, E., MSc PhD N.U.I. Lectr.  
Hartley, M. G., MScTech Lectr.  
Heston, A. G., BSc Birm. Lectr.  
Reeve, J., MScTech Lectr.  
Knowles, J. B., MScTech Lectr.  
Humpage, W. D., BSc Durh. Lectr.  
de Visser, G. F. A. H., BSc Lond. Lectr.

Efthymidis, A. E., BSc *Durh.*, MScTech

Asst. Lectr

Barker, D. C., MScTech

Asst. Lectr

Wilson, D. R., MScTech

Asst. Lectr

4 Demra

### Engineering, Mechanical, see also p. 1205

Johnson, W., BSc *Leind.*, BScTech DSc

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Keengsbeiger, F., Dupling *Berlin*, MScTech

DSc, MIMechE (Machine Tool E.) Prof.

Benson, R. S., MSc(Eng) *Leind.*, PhD *Liv.*, Prof.

Lambie, J. H., MEng PhD *Liv.*, DSc,

MIMechE (Strength of Materials) Reader

Camlin, G. S., BSc *Durh.*, MScTech

PhD

Royce, J. K., MScTech PhD

Sr. Lectr.

Johnson, E., BSc *Edin.*, MIMechE

Sr. Lectr.

Hutton, A. P., MScTech PhD

Lectr.

Schaffer, G. R., BSc(Eng) *Leind.*

Lectr.

Parfitt, J., MScTech PhD

Lectr.

Fielding, B. J., BScTech

Lectr.

Kettlewell, J., BSc PhD

Lectr.

Ransoh, M. M., BSc Dupling *Haifa*, PhD

Lectr.

Skorecki, J., BSc(Eng) *Leind.*, MScTech

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PhD

Baker, H. J., MScTech

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Kitching, R., BSc(Eng) *Leind.*, MSc *Notth.*

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Vaudevan, M., BSc *Mech.*, MS *Stan.*

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MR *Harv.*

Donaldson, I. B., BSc *St And.*, PhD

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Bell, R., MScTech

Lectr.

Thornley, R. H., MScTech

Lectr.

Needham, G., MScTech

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Hillier, M. J., BSc MSc(Eng) *Leind.*

Lectr.

Duncan, J. L., BSc(Mech) *Math.*

Asst. Lectr

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Morgan, E. L., BSc *Wales*, MScTech

Sr. Lectr.

Tait, G. B., BSc *Edin.*, MScTech

Lectr.

Chisholm, D. S., MEng *Liv.*

Lectr.

Spencer, E., MScTech

Lectr.

White, J. B., BScTech

Lectr.

Cockley, P., PhD *Leind.*, BScTech

(Chem. appl. to Munic. E.) Lectr.

Collins, J. C., BSc(Eng) *Leind.*,

MSc *Bathurst*

Lectr.

Bish, O. M., BScTech

Lectr.

### Engineering, Structural

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DSc

Prof., Dir. of Lab.

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Sr. Lectr.

McMinn, S. J., MEng *Liv.*, PhD

Lectr.

Smith, R. R. L., MScTech

Lectr.

Breton, D. M., BSc *Leind.*, PhD *Leind.*

Lectr.

Pennell, F. N., BSc(Eng) *Leind.*, MScTech

Lectr.

Dooley, J. F., MSc

Lectr.

Williamson, N. W., BSc PhD *Leind.*

Lectr.

Robinson, J. L.

Lectr.

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MScTech

Prof.

Dew, R. B., MA *Camb.* & *Mon.*, LLB,

FCA

Visiting Prof.

Roberts, A., MCom PhD

Reader

Wright, J. W., MA *Camb.*

Sr. Lectr.

Smith, F. L., MA *Oxon.*

Sr. Lectr.

Jenkins, G., MCom

Lectr.

Dowdell, A., MA *Oxon.*

Lectr.

Johnson, R. S., BSc *Wales*

Lectr.

Butterworth, J., BA(Com) MScTech

Lectr.

MacDonald, J. E., MA *Edin.*

Lectr.

Parmenter, R., MA *Camb.*

Lectr.

Trenchin-James, R. N.

Lectr.

Bloos, G., BA *Liv.*

Lectr.

Moxson, T. M., BScTech

Asst. Lectr

### Mathematics, see also p. 1208

Kynch, G. J., DIC, BSc PhD *Leind.*

MScTech

Prof.

.....

Reader

Neumann, Hanna, DPhil DSc *Oxon.*

Sr. Lectr.

Butler, R., MSc PhD

Lectr.

Bell, G. M., MA DPhil *Oxon.*

Lectr.

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Lectr.

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Shatuck, H. B., BSc PhD *Leeds*

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Wiegold, J., MSc PhD

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Wellington, F. A., MA *Camb.*

Lectr.

Bullough, R. K., BA *Camb.*, PhD *Leeds*

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Lodge, A. S., MA DPhil

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James, R. A., BA *Camb.*

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Lectr.

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Lectr.

Sharp, Mrs. Betty D., BSc PhD

Lectr.

Kovacs, L. G., MSc PhD

Asst. Lectr.

Amos, A. T., BSc *Leind.*

Asst. Lectr.

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Standing, J., MA *Camb.* & *Mon.*

Lectr.

Buxton, C. R., BA *Leind.*, MA

Lectr.

Duckworth, A. A., BA

Lectr.

Mullins, F. W., BA *Camb.*

Asst. Lectr.

Kloss, G.

Asst. Lectr.

Marshall, A., BA *Burw.*

Asst. Lectr.

Stork, F. C., BA *Burw.*

Asst. Lectr.

Hanson, W. P., BA *Wales*

Asst. Lectr.

Gardiner, Betsy C., MA

Asst. Lectr.

### Physics, see also p. 1209

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MScTech, FIP, FRIS

Prof., Dir. of Lab.

Taylor, C. A., BSc *Leind.*, DSc PhD,

FIP

Reader

Woolfson, M. M., MA *Oxon.*, PhD DSc,

FIP

Reader

# MANCHESTER

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FIP Se Lectr  
Edmunds, I. G., MSc PhD Wales, FIP Lectr  
Steeple, H., BSc R'dg, PhD Lectr  
Fowweather, F., BSc PhD, FIP Lectr  
Stanley, E., BSc PhD Wales, FIP Lectr  
Grake, J. E., MSc PhD Lectr  
Diamond, R., BA PhD Camb Lectr  
Darlow, S. F., MA PhD Camb Lectr  
Harburn, G., BScTech PhD Lectr  
Latham, J., BSc PhD Lond. Asst Lectr  
Lumb, M. D., BScTech Asst Lectr

## Textile Technology

Morton, W. E., MScTech, FTI Arkwright Prof.  
Vincent, J. J., MSc Lond., MScTech, FTI Prof., Dir. of Labs  
Hearle, J. W. S., MA Camb., PhD, FIP Reader  
Thomas, I. H., BSc PhD Wales Sr Lectr  
Charnside, J. Lectr  
Taylor, J. S., MScTech Lectr  
Latham, A. M., MScTech Lectr  
Duxbury, V., BScTech Lectr  
Wynn, G. R., MScTech Lectr  
Cusick, G. E., MScTech Lectr  
Lord, P. R., BSc(Eng) Lond Lectr  
Smith, J. B., BScTech Lectr  
Burnup, M. S., MScTech Asst Lectr

## THEOLOGY

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Bruce, F. F., MA Aberd. & Camb., DD Aberd. Rylands Prof.  
Farr, Rev. G., MA BD (O.T.) Lectr  
Evans, Rev. O. E., MA Leeds, BD Lond. (N.T.) Lectr.  
Anderson, Rev. A. A., BD Lond., BA Oxon. (O.T.) Lectr.  
Allegro, J. M., MA (O.T. & Inter-T. Studies) Lectr.  
Kraft, R. A., AM Whiston (Ill.), PhD Harv. (N.T.) Asst. Lectr.

### Christian Ethics

Preston, Rev Canon R. H., BSc(Econ) Lond., MA Oxon. Sp. Lectr.

### Comparative Religion

Brandon, Rev. S. G. F., DD Leeds, MA Leeds & Manc. Prof.  
Smith, Rev. D. H., BA BD Lond. Lectr

### Coptic

Reymond, Eve A. E., PhilCand Progre., DuplexLangOrAnc Dipld'EtSup Paris, PhD Lau. Lectr.

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Rupp, Rev. E. G., BA Lond., MA Camb. & Manc., DD Camb. & Aberd. Prof.  
Ehrhardt, Rev. A. A. T., DrJur Koenigsberg, PhD BD Camb. (Eccles. H.) Bishop Fraser Sr. Lectr.

Robinson, Rev. W. G., MA Oxon., BA Lau., BD PhD  
Flitcroft, Rev. J., MA

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Zuntz, G., DrPhil Marburg, FBA Reader

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Scott, Rev. P., BD Lond., DTheol Marburg + Lectr.  
Kenworthy, Rev. F., MA BD + Lectr.  
Cunliffe-Jones, Rev. H., BA Syd., BLitt Oxon., DD Edin. + Lectr.  
Kent, Rev. J. H. S., MA PhD Camb. + Lectr.

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Ullendorff, E., MA Jerusalem, DPhil Oxon. (Semitic Languages & Lit.) Prof.  
West, P. R., LittPhil&LitOr Langua, MA (Post-Biblical Jewish Studies) Laski Reader  
Wernberg-Møller, P., CandTheol Copenhagen, DPhil Oxon. (Semitic Languages & Lit.) Lectr.  
Latham, J. D., MA DPhil Oxon. (Arabic) Lectr.  
Rubinstein, A., LL.M. (Mod Hebrew) Sp. Lectr.  
Donald, T., BA (Akkadian) Asst. Lectr.

## Philosophy of Religion

Thomas, Rev. J. H., BA BD Wales, STM U.T.S. (N.Y.) Lectr

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Booth, Mrs Vera, BCom MA Birn Organizing Tutor  
Jones, A. L., MA Oxon. Tutor to Commonwealth Teachers  
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For further information, see under appropriate headings below.

For staff holding univ. titles, see under 'Technology' on pp 1216-1219.

Recognized for external lectures in theol. up to degree level: HARTLEY VICTORIA METHODIST COLLEGE, Alexandra Road South, Alexandra Park, Manchester, 16 (tel.: Manchester, Chorlton 3593); MANCHESTER BAPTIST COLLEGE, Brighton Grove, Rusholme, Manchester, 14 (tel.: Manchester, Rusholme 1131); NORTHERN CONGREGATIONAL COLLEGE, Whalley Range, Manchester, 16 (tel.: Manchester, Chorlton 5632); UNITARIAN COLLEGE, Dwyer Bank Rd., Victoria Park,

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For 3rd yr. of BScTech course in metal mining (at present discontinued): the CAMBORNE SCHOOL OF METALLIFEROUS MINING, Camborne, Cornwall (tel.: Camborne 2167).

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Owens Coll., named after a Manchester merchant who bequeathed £26,000 for its foundation, was opened in 1851. The Manchester Sch. of Med. was united with it in 1872. The charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent coll. of the univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent colls. A new charter was issued on July 15, 1903, reconstituting the univ. under the name of the Victoria Univ. of Manchester and freeing it from liability to admit or remain in session with any coll. other than Owens, and on June 24, 1904, the act for the incorporation of Owens Coll. with the univ. was passed. In 1905, on the establishment of the fac. of technol., the work of univ. standard at the Municipal Sch. (later Coll.) of Technol. was included in the univ. Under a charter granted in 1955 the Coll. of Technol. was establd. in 1956 as the Manchester Coll. of Sci. & Technol.

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cent.; local authorities, 1 per cent.; other items, 3 per cent.).

**INCOME** of Coll. of Sci. and Technol. Total income, £1,580,523 (Treasury grants, 63.7 per cent.; fees, 7.8 per cent.; local authorities, 16.8 per cent.; other items, 11.7 per cent.).

**FACULTIES, DEANS AND TUTORIALS.** (1) Arts [incl. sch. of archt.], *dean*: Prof. Dorothy M. Emmet (philos.), *tutor*: Dr. G. T. Hughes (comp. lit. studies); (2) sci., *dean*: Prof. G. Gee (chem.), *sr. tutor*: Dr. G. N. Burkhardt (chem.); (3) law, *dean*: Prof. H. Street (Engl. law), *tutor to articled clerks*: D. G. Barnsley; (4) med [incl. dent. and pharm.], *dean*: Prof. W. Schlapp (physiol.), *tutor*: Dr. P. B. Beeswick (physiol.); *dean of dent. school*, Prof. H. G. Radden (dent. surg.), *tutor to dent. students*: E. P. Turner (dent. surg.); (5) music, *dean*: Prof. H. D. Westlake (Greek); (6) econ. & soc. studies, *dean*: Prof. T. E. Chester (soc. admin.), *tutor*: J. Grundy (govt.); (7) theol., *dean*: Rev. Prof. E. G. Rupp (eccles. hist.), *tutor*: Dr. W. G. Robinson (eccles. hist.); (8) technol., *dean*: Dr. B. V. Bowden; (9) educn., *dean*: Prof. R. A. C. Oliver.

**UNIVERSITY PARKING.** Most of the bldgs. erected from time to time during the past 50 yrs. are situated about a mile from the centre of the city. The bldg. for clin. scs. is  $\frac{1}{2}$  mile distant, adjoining principal hospa. The main athletic grounds are at Fallowfield (50 acres), about  $\frac{1}{2}$  miles distant, and at Wythenshawe (68 acres), about 3 miles distant. Darbshire House (health centre) is  $\frac{1}{2}$  mile distant.

**LIBRARIES.** In all, about 750,000 vols.; in addition, there are over 130,000 pubns. in microprint or microfilm. The main library (over 500,000 vols.) is housed in a div. 1 books concerning the arts and allied facs. in the new bldg.;

books on scientific subj. in the old (Christie) bldg., which also contains the libr. of the Manchester Museum. Med. libr. (over 107,000 vols.) is housed in the med. sch. Libr. for deaf educn. (8,700 vols.) is available to all interested in educn. of the deaf. The John Rylands libr. in Manchester includes the famous Althorp libr. and the Crawford MSS. It contains one of the most important collections of early printed books and Bibles in existence, many first editions of English and foreign classics, rare bindings, and an extensive collection of charters, memorial and legal records and family monuments relating to almost every county in England. The ancient Chetham libr. (65,000 vols.) has valuable mediev. MSS and printed books of 17th and 18th cents.; it specializes in local hist. and topography. (The municipal reference libr. (500,000 vols.) includes a technical and sci. libr. of 90,000 vols. One of the most important sp. reference collections deals with British parliamentary papers from 1833, with a considerable no. of earlier date. The Coll. of Sci. & Technol. libr. (over 44,000 vols.) is devoted to appl. sci. and technol. and receives over 600 journals, of which about half are filed permanently.

**LABORATORIES, ETC.** Ample equipment for advanced study and res. in all depts. Outstation for physical res. (incl. Nuffield Radio-Aston. Lab.) at Jodrell Bank in Cheshire; lab. for res. in the mechanics of fluids at Barton aerodrome. Exper. grounds for hort. in Manchester and outstation in Cheshire. The *Manchester Museum*, forming part of the univ. bldgs., and containing among other sp. depts. the Flinders Petrie Egyptol. collection, is utilized for univ. teaching in zool., bot. and geol.

**TEACHING HOSPITALS.** Manchester Royal Inf.; St. Mary's Hs. for Women and Children; Manchester Royal Eye H.; Manchester and Salford H. for Skin Diseases; Royal Manchester Children's H.; Christie H. and Holt Radium Inst.; Manchester Chest Clinic; Withington H.; Crumpsall H.; Ancoats H.; Salford Royal H.; Duchess of York H. for Babies; Booth Hall Children's H.; Hope H.

**DARRISH HOSPITAL HEALTH CENTRE** provides med. care in a district of Manchester; in an exper. area the proper integration of prev. and curative services; and an instrument for undergrad. educn. and for socio-med. res.

**CENTRE FOR BUSINESS RESEARCH.** On an initiative by, taken by Unilever Ltd. and the univ.'s dept. of econ., a centre for bus. res. has been set up in Manchester. It is financed by money from industry and, with assistance of co-operating firms, is studying some of the difficult problems of bus. decisions, and ways in which econ., stat. and econometric knowledge can be used to help the decision-making of Brit. bus. Support has been guaranteed for an initial period of 7 yrs. The project is directed by Profs. C. F. Carter, J. Johnston and B. R. Williams.

**SCHOOL OF EDUCATION** (see also 'Teaching

Staff', above) An area trg. organization consisting of the depts. of the fac. of educn. and the following trg. colls.: Bolton Technical Trg. Coll., Manchester Rd., Bolton (tel. Bolton 5110); Charlotte Mason Coll., Ambleside, Westmoorland (tel. Ambleside 2168); Chorley Day Trg. Coll., Union St., Chorley, Lancashire (tel. Chorley 2516); De La Salle Trg. Coll., Hopwood Hall, Middleton, Manchester (tel. Middleton 4930); Didsbury Trg. Coll., Wilmslow Rd., Manchester, 20 (tel. Manc. Didsbury 1054); Elizabeth Gaskell Coll., Hathersage Rd., Manchester, 13 (tel. Manc., Rusholme 4446); Manchester Trg. Coll., Long Millgate, Manchester, 3 (tel. Manc., Blackfriars 7745); Padgate Trg. Coll., Fearnhead, nr. Warrington (tel. Warrington 32671); Sedgley Park Coll., Prestwich, Manchester (tel. Prestwich 2582); Sch. of Teacher Trg., Regional Coll. of Art, All Saints, Manchester, 15 (tel. Manc., Ardwick 3480).

**ADMISSION.** See Appendix III.

**NON-MEMBERS OF THE UNIVERSITY** may be admitted to classes subject to permission of prof. concerned and are required to give such evidence of proficiency as may be satisfactory to the vice-chancellor.

**FIRST DEGREE** 3 yrs (by sp. permission, grade of other approved univ., 2 yrs.)—BA pass, hon., BA(Theol.), BA(Mus), BSc pass, hon., LLB pass, hon., MEd pass, hon., BA(Econ) pass, hon., BA(Admin), BD (after univ. courses in arts), BScTech; 4 yrs—BA (hons. in mod. langs.—two langs.—and in Spanish and classical Arabic, Engl. & hist. of art, Engl. & drama, French & drama, and German & drama), BA(TP) pass, hon., BSc (hons. in pharmacy), 5 yrs—BA (hons. in archit.); 5 yrs and 1 term—BDS, 6 yrs—MB ChB. The BA(Econ) pass and BA (Admin) courses can be completed by attendance on evening lectures during not less than 4 sessions.

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign univ. as equivalent to attendance at Manc.

Minimum attendance in the univ. for graduation—3 yrs., for bachelorships in a fac.—3 yrs.

BA with hons. may be obtained in any one of the following schs.: classics, Greek, Latin, Greek & Engl., Latin & Engl., Engl., French, German, Italian, Russian, Spanish, mod. langs., hist., Greek & anc. hist., Latin & anc. hist., Spanish & classical Arabic, German & philos., Engl. & philos., Engl. & classical Arabic, Engl. & hist. of art, oriental studies, archet., pol. & mod. hist., geog., mod. hist. with econ. & pol., philos., psychol., maths., biblical studies, maths & philos., drama, Engl. & drama, French & drama, German & drama, American studies.

BSc with hons. may be obtained in any one of the following schs.: bul. chem., maths., maths. & phys., engin. (civil, mech., elect., aeron.), phys., chem., zool., physiol., geol., bot., anat., psychol., metall., geog. & anthropol., pharm., gen. sci.

BScTech with hons. may be obtained in any

one of the following schs.: mech. engin., electr. engin., civil engin. (civil, municipal or structural engin.), chem. (chem. or colouring matters or polymer chem.), biochem., textile chem., paper sci., textile industries (gen. textile technol. or textil. engin.), building, phys., chem. engin., fuel technol., metall., math., polymer technol.

**HONOR. DEGREES.** Open to bachelors normally of 1 yr.'s standing—MA, MSc, MA(Econ), MScTech., 3 yrs.—LLM (1 yr. for persons who graduated LLB with honours in the univ.), MD, MDS, DDS, MEd; 4 yrs.—LLD, MusD, DD, 5 yrs.—ChB; unspecified—DSc. Open to masters or doctors of philosophy of the univ. only. LittD.

Open to grads. of other approved univs. through res. in Manc. during 2 (non-grads. and certain grads.), 3 yrs.—MA, MSc, LL.M., MDS, MA(Econ), MScTech., MEd (3 yrs. for persons other than those who have gained dipl. in educn. of Manc.). Grads. of other approved univs. of 4 yrs. (DD 6 yrs.) standing who have obtained the degree of master or one substantially equivalent thereto and spent 2 yrs. in study or res. in Manc. may qualify for the DSc, LLD, DD.

The PhD differs from the LittD and DSc in requiring a definite course of study, and is of a lower standard, though higher than the MA, MSc, and MScTech.

**HONORARY DEGREES.** LittD, DSc, LLD, MusD, DD, MA, MSc, LL.M., MA(Econ), MScTech., MEd.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Gen. linguistics, bacteriol., statistics, advanced study in sci. (phys., astron., nuclear engin., numerical analysis, mech. of fluids), internat. law, advanced study in econ. & soc. studies, technical sci., audiol., teaching of Engl. overseas, youth work, 1 yr. postgrad., educnl. guidance, educnl. psychol. (child guidance), 1 yr., for approved teachers or psychologists; adult educn., 1 yr. for grads. and qualified teachers; educn. of handicapped children, 1 yr. for qualified teachers with 5 yrs.' experience; DPH, 1 yr., for registered practitioners; DPM, 8 terms, for registered practitioners; town & country planning, 1, 2 or 3 yrs. (full-time or pt.-time) according to qualifia.; advanced study in educn., 3 yrs. or (by sp. permission) 2 yrs.; community nursing, 4 yrs.; LDS, 5 yrs.; archit., 5 yrs.

**CERTIFICATES.** Psychiatric soc. workers, 1 yr.; theol., 3 yrs.; biblical knowledge, 1 yr.; technol. (assoc. coll. technol.), 5 yrs.; technol. (distinction), 1 yr. after cert. in technol.; grad. cert. in educn., 1 yr. (grads.); teacher's, 1 yr.; art teacher's, 1 yr., cert. for teachers of the deaf, 1 yr. (grads. and certificated teachers); town and country planning, 2 yrs.

**Fees.** Annual fees (including registration, tuition, exam., graduation and membership of library but not membership of students' union and athletic union). Bachelor's degrees in the humanities, £60—except for BA hons. in archit. or town & country planning, first 3 yrs., £60,

4th and 5th yrs., £30; BA(Mus) and MusB, £60, £60 or £95 according to options selected; BD (grad. course), £50 (2-yr. course) or £35 (3-yr. course), BD (undergrad. course), first 2 yrs., £60, 3rd and 4th yrs., £50. Bachelor's degrees in sci., £75; in technol., £75, £92 or £117. MB ChB—first 5 yrs., £75, 6th yr., £35 (fee also payable for residence for trg. in paediatrics and at the St. Mary's Hosp.); BDS—first 4 yrs., £75, 5th yr., £35. Degrees of master and of PhD. (a) not involving lab. work, £60 (MEd, £30; technol., £60, £67 or £86), (b) involving lab. work, £75 (technol., £75, £92 or £102). Other higher degrees. LittD, DSc, LLD, ChM, MD, DDS, DD, £30 on giving notice of candidature; MusD, £68 per session.

**Diplomas and Certificates (full-time):** £60 (advanced studies in sci. involving lab. work, audiol., bacteriol., community nursing, educnl. psychol. (child guidance), med. radiodiagnosis or med. radiotherapy, £75, advanced studies in educn., £30 (2-yr. course), £30 (3-yr. course); all dipl. in tech. sci., £75, £92 or £117).

**ACADEMIC YEAR.** Oct. to June: 3 terms, 1 of 10 wks., 1 of 9 wks. and 1 of 8 wks.

**ADULT EDUCATION (see also 'Teaching Staff', above).** Courses in adult educn. are conducted by the dept. of adult educn. for students in trg. for the teaching professions, and in the evening for the general public. Under the auspices of the dept. for adult educn., the extra-mural dept. provides facilities for extra-mural study at the univ. and at other centres. Sub-studies are connected with the supervision of work in collaboration with the WEA, and with the univ.'s residential coll.: Holly Royde Coll., 20 Palatine Rd., West Didsbury, Manchester, 20 (tel.: Manchester, Didsbury 4784). Tutorial classes, extension courses, public lectures, residential courses, and other facilities for adult students are arranged.

**POSTGRADUATE AWARDS** open to grads. of other univs. see p. 910.

**APPOINTMENTS BOARD,** 316-324 Oxford Road, Manchester, 13. The services of the bd. are open to all students or grads. requiring posts or advice on careers.

**CONVOCACTION** consists of all grads. since 1914 (each grad. admitted on payment of fee of 5s.). The duties and privileges of convoca. include the election of the chancellor of the univ. District groups (Manchester, London, Yorkshire, North-Western, Bristol, Isle of Man, Oxford) of convoca. provide social and other facilities for grads.

**MANCHESTER TECHNOLOGY OLD STUDENTS' ASSOCIATION** promotes cultural and social activities among past students. Branches exist in London and overseas.

**STUDENT RESIDENCES, I.** For men: Dalton Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 3211; principal: P. M. Bromley, MA Oxon.), £165 for 27 weeks, 117 students; Hulme Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1343; warden: Rev. J.



Fliccroft, MA), £165 for 27 weeks; St. Anselm Hall, Victoria Park, Manchester, 14 (tel. Manc., Rusholme 1398, warden: Rev. Canon R. H. Preston, BSc(Econ) Lond., MA Oxon), £165 for 27 weeks, 120 students; Northern Congregational Coll., Whalley Range, Manchester, 16 (tel. Manc., Chorlton 5632; principal: Rev. W. G. Robinson, MA Oxon., BA Law, BD PhD), £165 per session; Unitarian Coll., Dunsy Bank Rd., Victoria Park, Manchester, 14 (tel. Manc., Rusholme 1016; principal: Rev. F. Kenworthy, MA BD), £165 per session; Montgomery House, Alexandra Park, Manchester, 16 (tel. Manc., Moss Side 3434; warden: C. Hall, BSc), £165 for 27 weeks; Hartley Victoria Methodist Coll., Alexandra Rd. South, Manchester, 16 (tel. Manc., Chorlton 1593; principal: Rev. F. Scott, BD Lond., DTheol Marburg), £165 per session; Woolton Hall, Fallowfield, Manchester, 14 (tel. Manc., Rusholme 7244; warden: G. T. Ashley, BSc MD), £165 per session, 180 students; Needham Hall, Spath Rd., West Didsbury, Manchester, 20 (tel. Manc., Didsbury 9252; warden: W. R. Ward, MA DPhil Oxon.), £165 per session, 127 students; Allen Hall, Wilmslow Rd., Fallowfield, Manchester, 14 (warden: D. M. Leahy, MA Oxon.), £165 per session, 120 students. II. For women: Ashburn Hall, Fallowfield, Manchester, 14 (tel. Manc., Rusholme 4351; warden: Kathleen G. Gough, BA), £145 per session, approx. 205 students; Langdale Hall, Victoria Park, Manchester, 14 (tel. Manc., Rusholme 1385; warden: Mrs. Phyllis M. White, BA), £145 per session, 118 students; Ellis Lloyd Jones Hall, Talbot Rd., Old Trafford, Manchester, 16 (tel. Manc., Trafford Park 3166; warden: Mrs. Edna Singleton), £145 per session, 80 students; St. Gabriel's Hall, Victoria Park, Manchester, 14 (tel. Manc., Rusholme 1718; warden: Mother Maria Benigna, BA), £145 per session, 67 students.

STAFF HOUSE on main univ. site.

#### UNIVERSITY MILITARY AND AIR FORMATIONS.

(a) Officers trg. corps (T.A.), C.O.: Lt-Col. R. St. G. T. Harper; (b) W.R.A.C. sub-unit, admin. officer: Major F. M. Cook (W.R.A.C.); (c) univ. air squadron R.A.F., C.O.: S/Ldr J. E. F. Hardcastle.

STUDENT HEALTH SERVICE. A consultative and advisory service deals with health educ. amongst students.

The UNIVERSITY UNION occupies a bldg. on main univ. site, and provides social facilities for men and women students.

The FACULTY OF TECHNOLOGY UNION comprises all univ. students in the Coll. of Sci. & Technol. An agreement exists providing reciprocal membership between the faculty of technol. union and the univ. union.

ATHLETIC AND OTHER FACILITIES. The athletic grounds consist of (a) a ground of about 30 acres at Fallowfield (1½ miles distant), (b) a plot of land of about 3 acres adjoining Old Hall Lane, Fallowfield (1½ miles distant), (c) about 68 acres of land at Wythenshawe (3 miles distant). The athletic grounds of the coll. of sci. and technol. are in Rusholme. The McDougall Centre and Holt Gymnasium (Dir.: R. St. G. T. Harper, MA Oxon.), which are situated close to the univ., provide generous facilities for physical educ. and recreation, including a covered swimming-bath.

PUBLICATIONS. (1) Periodical: (a) *Calendar* (Sept.), 7s. and 3s.; *Exam. Papers*, 9d.-3s. a set; *Manchester School*, Jan., May and Sept. (economic and commercial), £1 p.a. (\$3 U.S.A.); departmental prospectuses (April-June); *Annual Report of Coll. of Sci. & Technol.* (b) Also publ. by univ. press: publishers of Chetham Soc., Manchester; *Bulletin of John Rylands libr.*; *Journal of Semitic Studies*; journals and papers of the Rhodes Livingstone Inst., Northern Rhodesia; (c) Student publications. - *The New Victorian* (mag.), *Medical School Gazette*. (2) Histories: *The Owens College, its Foundation and Growth, and Connection with the Victoria Univ.*, by Joseph Thompson, Manchester, J. E. Cornish, 1886. *The Owens College*, by P. J. Hartog, Manchester, J. E. Cornish, 1900. *The Education of Women at Manchester University, 1853-1933*, by Dr. Mabel Tylecote, Manchester Univ. Press, 1933. *Chapters in the History of Owens College and of Manchester Univ., 1851-1914*, by E. Piddes, Manchester Univ. Press, 1937. *Portrait of a University*, by H. B. Charlton, Manchester Univ. Press, 1951.

UNIVERSITY PRESS, 316-324 Oxford Rd., Manchester, 13 (see also 'Admin. and Other Staff', above). Establd. 1902. The object of the press is to publish works of learning and res. in all branches of knowledge, but more general publishing is also undertaken. All official calendars, prospectuses, etc., of the univ. are also issued by the press. Further information from the sec.

## THE YEAR 1961.

PRINCIPAL BENEFACTIONS. Nuffield Provincial Hospitals Trust, £33,750 for work by dept. of soc. & prev. med.; Nuffield Foundation, £20,000 for devel. of occupat. hyg. unit.

NEW DEPARTMENTS AND CHAIRS. Dept. & chair of drama.

RETIREMENTS. Prof. J. W. Rees (Spanish); J.

Marks (French); Dr P. B. Mumford (dermatol.); F. Buckingham (engin.).

REIGNATIONS. Prof. L. J. Austin (French), apptd. to fellowship, Jesus Coll., Camb.; Dr. A. H. Birch (govt.), apptd. to chair of govt., Hull; Prof. W. A. Deer (geol.), apptd. to chair of mineral & petrol, Camb.; J. A. Hornby (law),

apptd. to chair of law, Brist., Dr. B. H. Neumann (maths), apptd. to chair of maths., A N U.; Dr. M. R. J. Salton (chem. bacteriol.), apptd. to chair of microbiol., N S.W.; R. Sidebotham (acctg.), apptd. prof. of accty., Well.; Dr. H. A. F. Turner (indust. ruins.), apptd. prof. of Indust. ruins., Leeds

**DEATHS** Prof. E. Bradshaw (electr. engin.); Prof. A. Redford (econ. hist.), Emer. Prof. H. B. Charlton (prof. of Engl., 1921-57), Emer. Prof. Sir Geoffrey Jefferson (prof. of neurol. surg., 1939-51); Emer. Prof. T. H. Oliver (prof. of therapeutics, 1946-48); Lord Stopford of Fallowfield (vice-chancellor, 1934-36); Emer. Prof. E. D. Telford (prof. of surg., 1922-36)

**HONORARY DEGREES.** *LLD*—L. S. Lowry, artist, Sir Ernest Marsden, pres. Rutherford Jubilee Internat. Conf., 1961. *LLD*—Prof. Sir J. G. Edwards, pres., Royal Hist. Soc. *DSc*—Sir Stewart Duke-Elder, dir., Inst. of Ophthalmol., Lond.; Prof. Dorothy M. Hodgkin, reader in X-ray crystallog., Oxford; Prof. V. F. Weisskopf, dir.-gen., European Centre for Nuclear Res.; Prof. A. Bohr, prof. at Inst. of Theoret. Phys., Copenhagen; Prof. G. Raash, prof. of theoret. phys., Jerusalem. *DD*—Most Rev. A. M. Ramsey, bishop of Canterbury. *MSc*—Anne Ellis, formerly Manchester High Sch. *MA*—J. W. Hill, sec. to Lord Mayor of Manchester; Alice Foley, W.E.A.; Col. T. E. St. Johnston, chief constable of Lancs.; Margaret E. Ham, headmistress, Withington Girls' Sch.; J. H. King, chairman, Manchester Grammar Sch. bd. of governors

## Statistics

### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	5560	607
Women	1728	84
Total	7288	691

Distribution by Faculties. *Arts*, 1747; *econ. & soc. studies*, 671; *educn.*, 470; *law*, 264; *med.*, 807; *music*, 28; *sci.*, 1910; *technol.*, 2031; *theol.*, 51. Total: 7979

### Included in the figures above are:—

Postgraduate students, 1690

New admissions, 2879.

Students from other countries, 983 (Countries from which largest numbers came: India, 150; Nigeria, 76; Iraq, 67; Pakistan, 64; Egypt, 51; Iran, 47).

**DEGREES AWARDED (1960-61).** *Arts*: BA, 377; BA(Theol.), 5; BA(Mus), 3; MA, 19. *Econ. & soc. studies*: BA(Econ), 28; BA(Admin), 38; BA(Corn), 47; MA(Econ), 9. *Edcn.*: MEd, 10. *Law*: LLB, 59; LL.M., 2. *Med.*: MB ChB, 62; BDS, 25; MD, 10; MDS, 1; DDS, 2. *Music*: MusB, 7. *Sci.*: BSc, 476; MSc, 66; DSc, 3. *Technol.*: BScTech, 442; MScTech, 70. *Theol.*: BD, 12. PhD (all facs): 90

**DIPLOMAS AWARDED (1960-61).** *Arts*: archt., 19; town & country planning, 18. *Econ. & soc. studies*: advanced studies in econ. & soc. studies, 20. *Edcn.*: edcn., 10; edcnl. psychol., 8; audiol., 3. *Law*: internat. law, 1. *Med.*: LDS, 7; psychol. med., 3; pub. health, 1. *Sci.*: advanced studies in sci., 19; stats, 1. *Technol.*: indust. admin., 8; personnel management, 7; prodn. engin., 4; textile industries, 1; paper technol., 1; electr. engin., 1

**CERTIFICATES AWARDED (1960-61)** *Arts*: town & country planning, 7. *Edcn.*: grad. cert. in edcn., 130; cert. for teachers of the deaf, 70; teacher's cert., 1034; art teacher's cert., 31; cert. in teaching handicapped children, 12. *Med.*: psychiatric soc. workers, 12. *Theol.*: bibl. knowledge, 12; theol., 9.

# UNIVERSITY OF NOTTINGHAM\*

Founded 1948; previously established as University College, Nottingham, 1881

Postal Address: University Park, Nottingham, England

Telegrams: University, Nottingham

Telephone: Nottingham 36101

VISITOR—H.M. THE QUEEN

CHANCELLOR—His Grace THE DUKE OF PORTLAND, KG, Hon. LLD

PRO-CHANCELLORS—ALDERMAN SIR FRANCIS HILL, CBE, MA LL.M. LOND. CANTAB., Hon. LLD; W. G. BRIGGS, MA OXON., Hon. LLD

VICE-CHANCELLOR—B. L. HALLWARD, MA CANTAB.

PRESIDENT OF COUNCIL—ALDERMAN SIR FRANCIS HILL, CBE, MA LL.M. LOND. CANTAB., Hon. LLD

VICE-PRESIDENT OF COUNCIL—W. G. BRIGGS, MA OXON., Hon. LLD

TREASURER—The Rt. Hon. LORD HIVER, CH, MBE, Hon. LLD CANTAB., Hon. DSc

DEPUTY TREASURER—H. B. STONE, OBE, Hon. MA

DEPUTY VICE-CHANCELLOR—PROFESSOR N. HAYCOCKS, MA MANC.

REGISTRAR—A. PLUMB, MA CANTAB.

LIBRARIAN—R. S. SMITH, BA LOND., FLA

BURSAR—A. HENDRY, Hon. MA, CA

## TEACHING STAFF

[†=Part-Time]

<b>Agriculture, etc., see below</b>	King, T. J., BSc MA DPhil OXON. (Org. C.) Reader
<b>Botany, see also Agriculture</b>	Roberts, J. C., BPharm BSc PhD LOND., Sr. Lectr.
Chester, C. G. C., BSc GLAS., MSc PhD BIRM., FLS	Shew, B. D., MM, TD, BSc PhD LOND., Sr. Lectr.
Holden, H. S., CBE, DSc MANC., FLS	Wallwork, S. C., MA DPhil OXON., Lectr.
Turner, Mrs. Myfanwy, MSc WALES, FLS	Timmons, C. J., BSc PhD LOND., FRIC, Lectr.
Connell, W. D., BSc EDIN., (Palaeobot.) Hon. Reader	Addison, W. E., BSc GLAS., PhD ABERD., FRIC, Lectr.
Pugh, G. J. F., BSc WALES, PhD	Booth, H., MA PhD CANTAB., Lectr.
Pearson, M. C., BSc PhD DURH.	Cundall, R. B., BSc PhD ST. AND., Lectr.
Cocking, E. C. D., BSc PhD BRIST.	Pinfitt, G. D., BSc PhD BRIST., FRIC, Lectr.
Mathison, G. E., BSc BRIST., PhD	Tuck, D. G., BSc PhD DURH., Lectr.
Stewart, W. P. D., BSc PhD GLAS.	Rudham, R., BSc PhD BRIST., Lectr.
Greenhalgh, G. M., BSc WALES, MSc	Bullock, E., MA PhD CANTAB., Lectr.
	Logan, N., BSc PhD, Lectr.
	McKay, K. M., BSc ABERD., PhD CANTAB., Lectr.
	Willis, M. R., BSc PhD, Lectr.
	Somerby, D. B., BSc PhD SHEFF., Lectr.
	Dove, M. F. A., BA CANTAB., Asst. Lectr.
	Rochester, C. H., BSc LOND., Asst. Lectr.
	Sutton, D., BSc, Asst. Lectr.
1 DEMS.	3 DEMS.
<b>Chemistry</b>	<b>Classics</b>
Johnson, A. W., BSc PhD LOND., MA	Thompson, E. A., MA BLITT DUB., Prof.
ScD CANTAB., FRIC	
Sir Jesse Boot Prof.	
Eley, D. D., OBE, MSc MANC., PhD MANC. & CANTAB., ScD CANTAB.	
(Phys. C.) Prof.	
Addison, C. C., PhD DSc DURH., FRIC,	
FIP	
(Inorg. C.) Prof.	

\* Member of the Association of Universities of the British Commonwealth



- English**  
 Kinsale, J., MA *Oxon* & *Edin.*, PhD  
 DLitt *Edin.*, FRSL Prof.  
 Cameron, K., BA *Leeds*, PhD *Sheff.*  
 (Engl. Lang.) Reader  
 Hubbard, G. R., MA *Leeds* Sr. Lectr.  
 Boulton, J. T., BA *Durh.*, BLitt *Oxon*, PhD Sr. Lectr.  
 Rodway, A. E., MA *Cambr.*, PhD Sr. Lectr.  
 Smith, Sheila M., MA *Leeds* Lectr.  
 Lee, B. C., MA *Brist.* Lectr.  
 Shaw, P., BA *Leeds* Lectr.  
 Berry, H., Margaret, BA *Leeds* Asst. Lectr.  
 Watson, Elizabeth A. F., BA *Oxon* Asst. Lectr.  
 Hawthorne, T. S. B., MA *Dub.*  
 (Engl. Studies for Overseas Students) Lectr., Tutor
- Fine Art**  
 Smart, P. A. M., MA *Glas.* Sr. Lectr., Hd. of Dept.  
 Culbert, W. F. Fellow
- French**  
 Thorpe, L., BA PhD *Leeds*, L&L *Leeds*, DUParis Prof.  
 Christie, J., MA *Glas.*, L&L *Leeds* Lectr.  
 Jolivet, P. A., L&L *Dipid'ÉtSup* DUParis Lectr.  
 Dawson, F. K., MA PhD *Manc.* Lectr.  
 Puckis, Helen M. C., MA *Oxon*, DUParis Lectr.  
 Lucas, H. H., BA *R'dg.*, DUStras Lectr.  
 Van Emden, W. G., BA *Leeds* Lectr.  
 Rodmell, G. E., BA *Durh.* Asst. Lectr.  
 Jolivet, Mrs. Nicole A. M., L&L *Paris* Lectrice
- Geography**  
 Edwards, K. C., MA PhD *Leeds* Prof.  
 King, Miss Cuthlaine A. M., MA PhD *Cambr.* Reader  
 Barnes, F. A., BSc *Leeds* Sr. Lectr.  
 Fuller, G. Joan, MA PhD *Leeds* Sr. Lectr.  
 Cole, J. P., MA PhD Lectr.  
 Osborne, R. H., BSc(Econ) PhD *Leeds* Lectr.  
 Wheeler, P. T., MA *Aberd.*, PhD *Leeds* Lectr.  
 i *Dennr.*
- Geology**  
 Evans, W. D., MSc *Wales*, PhD *Leeds*, FLS, FGS Prof.  
 Richardson, W. A., OBE, BA DSc BSc(Eng) *Leeds*, FGS (Petrol.) Hon. Reader  
 Elliott, R. B., BSc *Durh.*, PhD, FGS Sr. Lectr.  
 Honeyman, A. M., MA BSc *Glas.*, FGS Lectr.  
 Furman, R. J., BSc PhD *Durh.*, FGS Lectr.  
 Rowell, A. J., BSc PhD *Leeds*, FGS Lectr.  
 Taylor, F. M., BSc PhD *Sheff.*, FGS Lectr.  
 Cummins, W. A., BSc *Leeds*, FGS Lectr.  
 Merton, R. D., BSc PhD, FGS Lectr.
- German**  
 King, K. C., MA *Oxon*, PhD *Leeds* Prof.  
 Smith, N. H., MA *Oxon* Lectr.
- History**, see also Econ and Soc Hist.  
 Koenigsberger, H. M. G., MA PhD *Cambr.* (Mod. H.) Prof.  
 Holt, J. C., MA DPhil *Oxon* (Mediev. H.) Prof.  
 Fryer, W. R., MA BLitt *Oxon* Sr. Lectr.  
 Woodward, G. W. O., MA PhD *Dub.* Lectr.  
 Grenville, J. A. S., BA PhD *Leeds* Lectr.  
 McIntyre, W. D., MA *Cambr.* & *Wash.*, PhD *Leeds* Lectr.  
 Hamilton, S. F., BA PhD *Leeds* Lectr.  
 Storey, R. L., MA *Oxon*, PhD *Durh.* Lectr.
- Horticulture**, see Agriculture, below
- Law**  
 Smith, J. C., MA LLB *Cambr.* Prof.  
 Webb, F. R. H., JP, MA LLB *Cambr.* (Conflict) Reader  
 Pritchard, A., LLB *Leeds* Sr. Lectr.  
 Brownlie, I., MA DPhil *Oxon* Lectr.  
 Hogan, T. B., LLB *Manc.* Lectr.  
 Williams, D. G. T., MA LLB *Cambr.*, LLM *Calif.* Lectr.  
 Morrell, A. L., FCA Lectr.
- Mathematics**  
 Pitt, H. R., BA PhD *Cambr.*, FRS (Pure M.) Prof.  
 Hall, G. G., BSc *Belf.*, MA PhD *Cambr.* (Appl. M.) Prof.  
 Noble, M. E., MA PhD *Cambr.* Reader  
 Rose, A., BA *Cambr.*, DSc *Manc.* Reader  
 Prier, L. E., MSc *Leeds* Sr. Lectr.  
 Power, G., MBE, MA *Oxon*, PhD, FIP Sr. Lectr.  
 Jones, E. E., BSc PhD *Wales* Lectr.  
 Jackson, Margaret, MSc *Leeds*, PhD Lectr.  
 Granger, C. W. J., BA PhD Lectr.  
 Prochtor, G. F., MA DPhil *Oxon* Lectr.  
 Sewell, M. J., BSc PhD Lectr.  
 Fullerton, G. H., BSc PhD *Belf.* Lectr.  
 Pate, M. B., BSc *Wales* Asst. Lectr.  
 Foxley, E., BSc PhD Asst. Lectr.  
 Anderson, J. A., BA *Belf.* Asst. Lectr.  
 McCarthy, M. F., BSc *N.U.I.* Asst. Lectr.  
 Shawyer, D. L. R., BSc *St. And.* Asst. Lectr.
- Metallurgy**  
 Cuthbertson, J. W., DSc *Manc.*, FIM, MIEE, Cripps Prof.  
 Holmes, E., MA *Cambr.*, PhD *Bern* Sr. Lectr.  
 Waterhouse, R. B., MA PhD *Cambr.* Sr. Lectr.  
 Brook, P. A., MA *Cambr.*, PhD Lectr.  
 Henstock, M. E., BSc Lectr.  
 Harris, S. J., MScTech *Manc.* Lectr.
- Mining**, see Engineering, Mining

**Music**

Keys, I. C. B., MA DMus Oxon, FRCO Prof.  
 Laming, F. M., BMus Lond. Sr. Lectr.  
 Smallman, F. B. R., MA BMus Oxon. Sr. Lectr.

**Pharmacy**

Trease, G. E., BPharm Lond, Hon. DU  
*Stras & Clermont-Ferrand, FRIG, FLS*  
 (Pharmacog.) Prof.  
 Partridge, M. W., BPharm BSc PhD Lond,  
 (Pharm. Chem.) Lord Trent Prof.  
 Crossland, J., MA Oxon., PhD Wales  
 (Pharmacol.) Reader  
 Turner, H. A., BSc Lond., PhD Sr. Lectr.  
 Hugo, W. B., BPharm PhD Lond. Sr. Lectr.  
 Cooper, F. C., BPharm BSc Lond., PhD Lectr.  
 Evans, W. C., BPharm BSc PhD Lond. Lectr.  
 Gilbert, R. E., BPharm Wales, PhD Burs. Lectr.  
 Watson, Gertrude M., BPharm Lond. Lectr.  
 Vipond, H. J., BSc PhD Durh. Lectr.  
 Haidman, R., BPharm BSc PhD Lond. Lectr.  
 Groat, R. J., BPharm PhD Lectr.  
 Leonard, B. E., BSc BPharm Lectr.  
 Stockley, I. H., BPharm Asst Lectr.

British Empire Cancer Campaign  
 (Res. Lab.)

Baldwin, R. W., BSc PhD Burs. Dir.  
 5 Demars.

**Philosophy**

Hepburn, R. W., MA PhD Aberd. Prof.  
 Lees, J. P., MA Camb. (Soc. P.) Lectr.  
 McQueen, D. A., BA St'ow Lectr.  
 Hankinson, G. S., BA Camb. Temp. Asst. Lectr.

**Physics**

Bates, L. F., BSc Brist., PhD Camb., DSc Lond.,  
 FIP, FRS Lancashire-Spencer Prof.  
 Stevens, K. W. H., MA DPhil Oxon.  
 (Theoret. P.) Prof.  
 Standley, K. J., MA DPhil Oxon. Reader  
 Woolley, J. C., BA Camb., PhD Sr. Lectr.  
 Nash, W. F., MSc Wales, PhD Manf. St. Lectr.  
 Adam, G. D., BSc St'and, PhD Sr. Lectr.  
 Phillips, J. H., MC, BSc PhD Lectr.  
 Matthews, J. C., BSc PhD Leeds Lectr.  
 Challis, L. J., MA DPhil Oxon. Lectr.  
 Bates, C. A., BSc PhD Lectr.  
 Rowell, P. M., BSc DPhil Oxon. Lectr.  
 Sheard, F. W., BSc Durh. Lectr.  
 Bull, R. M., BSc Eve. Asst. Lectr.  
 Heath, M., BA Oxon. Asst. Lectr.  
 Moore, W. S., BA Camb., PhD Asst. Lectr.  
 Rastin, B. C., BSc Asst. Lectr.  
 2 Demars

**Psychology**

Sprott, W. J. H., MA Camb. Prof.  
 Joynton, R. B., MA BLett Oxon, PhD Sr. Lectr.  
 Newson, L. J., BSc Lond., PhD Lectr.  
 Gauld, A. O., MA Camb. (Exper. P.) Lectr.

Douglas, G. O., MA Camb. (Clin. P.) Lectr.  
 King, M. D., BSc Lond. (Sociol.) Asst. Lectr.

**Slavonic Studies**

Sealey, F. J. B. F., MA Oxon. Sr. Lectr., Hd. of Dept.  
 Partridge, Miss Monaca A., BA PhD Lond. Sr. Lectr.  
 Futrell, M. H., BA PhD Lond. Lectr.  
 Johnson, B. S., BA PhD Lectr.  
 Kirilloff, A., BA Oxon. Lectr.

**Social Science**

Marsh, D. C., MCom Burs. Prof.  
 Gowan, I. L., MA Oxon., BA Wales  
 (Pub. Admin.) Sr. Lectr.  
 Robertson, Mary F., MA Edin. Lectr.  
 Eyden, Joan L. M., BA BSc(Econ) Lond. Lectr.  
 Emerson, A. R., PhD Edin., BA Lectr.  
 Willcocks, A. J., BCom PhD Burs. Lectr.  
 Rowe, E. A., MA BLett Oxon. Lectr.  
 Spelman, Eileen M., OBE, BA Lond. Lectr.  
 Johnson, N., BA Oxon. Lectr.  
 Manly, Margaret A. G., MSS Welsh Temp. Lectr.  
 Selburn, R. L., BA Asst. Lectr.

**Spanish**

Tate, R. B., MA PhD Belf. Prof.  
 Russell-Gebbett, P. S. N., MA Camb. Lectr.  
 Connell, G. W., MA Manx. Lectr.  
 Patricolas, J. R., BA Madrid Lectr.

**Theology**

Richardson, Canon A., MA Lit. & Oxon.,  
 Hon. DD Glas. & Oxon. Prof.  
 Leaney, Rev. A. R. C., MA BD Oxon. Sr. Lectr.  
 Neil, Rev. W., MA BD PhD Hon. DD Glas. Lectr.  
 McKeeting, H., BD MTh Lond. Lectr.  
 Hall, Rev. S. G., MA Oxon. Lectr.  
 Penocke, A. R., DPhil DSc Oxon. Lectr.  
 Richmond, Rev. J., MA BD PhD Glas. Asst. Lectr.  
 Posen, Rev. J., PhD Lond. † Lectr.

**Theoretical Mechanics**

Adkins, J. E., PhD DSc Lond. Reader, Hd. of Dept.  
 Green, W. A., BSc PhD Wales Lectr.  
 Spencer, A. J. M., MA PhD Camb. Lectr.  
 England, A. H., BSc Durh. Asst. Lectr.

**Zoology, see also Agriculture, below**

Barrington, E. J. W., MA DSc Oxon., FLS Prof.  
 Atken, A., BSc Glas. Sr. Lectr.  
 Clarke, K. U., BSc Lond., PhD Sr. Lectr.  
 Young, May R., BSc Edin., PhD Lond. Lectr.  
 Morris, B., BSc Wales, PhD Lectr.  
 Morris, R., BSc Lond., PhD Lectr.  
 Kent, A. K., BSc Wales Lectr.  
 Hartley, J. C., BSc PhD Burs. Asst. Lectr.  
 1 Demar

## AGRICULTURE AND HORTICULTURE

## Agricultural Botany

- Milthorpe, F. L., MScAgr Syd., PhD Lond. Prof.  
 Dent, K. W., BSc PhD Birm. Lectr.  
 Edwards, Miriam M., MSc PhD Manc. Lectr.  
 Whittington, W. J., BSc Wales, PhD Lectr.  
 Lewis, B. G., BSc Brist. Asst. Lectr.  
 1 Demr.

## Agricultural Chemistry

- Halleworth, E. G., BSc PhD Leeds. Prof.  
 Lewis, D., MA Camb., MSc Wales, PhD Sheff. Reader  
 Ling, E. R., MSc Lond., PhD, FRIC. Sr. Lectr.  
 Crawford, D. V., MA BSc Oxon., PhD Lectr.  
 Norton, G., BSc PhD Lectr.  
 Cowan, I. R., MSc Lond. Lectr.  
 Carsfield, P. E., BSc Wales Lectr.  
 Taylor, I. F., AKC, BSc Lond. Asst. Lectr.  
 1 Demr.

## Agricultural Economics

- Beitton, D. K., BSc(Econ) Lond., MA Oxon. Prof., Prov. Agric. Economist  
 Jones, R. B., MSc Wales. Sr. Agric. Economist  
 Senior, W. S., BSc(Agric) Leeds. Sr. Agric. Economist  
 Ingersent, K. A., BSc Aberd., MSc Manc. Agric. Economist  
 Wasley, T. K., MSc Agric. Economist  
 Wood, R. O., MSc Lond. Agric. Economist  
 Jones, G. E., BA Manc., BLitt Oxon. Agric. Economist  
 Shull, S. C., MA Virginia, PhD Corn. Agric. Economist  
 Sandilands, Margaret M., BA Lond. Asst. Agric. Economist  
 Theophilus, T. W. D., BSc Wales. Asst. Agric. Economist  
 Daw, M. E., BSc. Asst. Agric. Economist

## Agricultural Engineering

- Chatterton, J., DFC, BSc Lond., MSc Lectr.

## Agricultural Microbiology

- Woodbine, M., MSc PhD Manc., FRIC. Reader  
 Seaman, A., BSc Lond., PhD Lectr.  
 1 Demr.

## Agricultural Zoology, see also Zool., above

- Murphy, P. W. E., BAgri N.U.I., DPhil Oxon. Lectr.  
 Ritchie, J. Y., BSc(Agric) Glas. Lectr.  
 1 Demr.

## Agriculture

- Ivins, J. D., BSc R'dg., MSc(Agric) PhD Prof.  
 Lanning, G. E., BSc(Agric) Lond., MS PhD Ill. (Animal Physiol.) Reader  
 Bremner, P. M., BSc Edin., MS Corn. DipAgric Camb. Lectr.  
 Payne, C. G., BSc PhD Lond. Lectr.  
 Lodge, G. A., BSc Durh., PhD Aberd. Lectr.  
 3 Demrs.

## Food Science

- Rolfe, E. J., BSc Lond., FRIC. Lectr.  
 Storr, M., JUDr. Prague, BSc PhD Leeds. Lectr.  
 Dewdney, G. E., BSc. Temp. Asst. Lectr.  
 1 Demr.

## Horticulture

- Hudson, J. P., MBE, GM, MSc Lond., PhD. Prof.  
 Marston, Margaret E., BSc Lond., MSc(Hort) PhD. Lectr.  
 Heydecker, W., BSc R'dg., MSc PhD Lectr.  
 Dullforce, Winifred M., MSc Lectr.  
 1 Demr.

## Veterinary Hygiene

- Buxton, J. C., BSc PhD. Hon. Lectr.  
 Ford, Conne M. Hon. Lectr.

## INSTITUTE OF EDUCATION

- Lewis, Prof. M. M., MA PhD Lond. Dir.  
 Daniels, J. C., BSc MEd Durh., PhD Sr. Tutor  
 Ditch, H., MA Aberd. Tutor  
 Daines, J. W., BD MTh PhD Lond. Tutor  
 Neilson, J. B., MA Camb. Lectr.  
 Grayson, M. C., BA Leeds. (Overseas Teachers) Tutor  
 Land, Claudia E. L., MA Bern., FLA Librarian

## EXTRA-MURAL STUDIES

- Wiltshire, H. C., MA Lond. Dir.  
 Thornton, A. H., MA BCL Durh. Dep. Dir.  
 Simpson, S. J., BSc(Econ) Lond. (Appl Econ) Sr. Tutor  
 Byliss, F. J., JP, MA Oxon., PhD (Econ. & Indust. Relns.) Tutor  
 Champion, A., MA Camb. (Holland) (Philos.) Tutor  
 Cruickshank, A. B., MA Glas. (Mid-Derbyshire) (Geog.) Tutor  
 Dixon, J. F., MA Oxon. (W. Nottinghamshire) (Pol.) Tutor  
 Douglas, G. O., MA Camb. (Psychol.) Tutor  
 Fielden, R. D. S., MA Manc. (Lincoln) (Engl. Lit.) Tutor  
 Hogarth, C. E., MA Manc. (Derby & S. Derbyshire) (Hist.) Tutor  
 James, W., BA [E. & S. Nottinghamshire] (Lit.) Tutor  
 Lilley, S., MSc Belf., PhD Camb. (Sci.) Tutor  
 Madgwick, P. J., MA Oxon. (N. Leicestershire) (Pol.) Tutor  
 Smith, A. E., MA Leeds (Lindsay) (Local Studies) Tutor  
 Stadler, K. R., BA Brist., MA Lond. (Internat. Relns.) Tutor  
 Coates, K. S., BA (Nottingham) (Sociol.) Tutor  
 Rogers, A., MA (Kesteven) (Local Hist.) Tutor  
 Steele, D. B., BA Durh. (Econ.) Asst. Tutor  
 May, J., BA Oxon. (Archaeol.) Asst. Tutor

## ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S DEPARTMENT. Sr. Asst. Registrar: G. J. Eltringham, MA *Sheff.*, Asst. Registrar & Sec. to Sch. of Agric.: D. F. Rex, BA *Burd.*, LL.B. Lond. Asst. Registrar: Glensy M. P. Wortley, MA Oxon. Sr. Admin. Assts.: Isabel C. Hutton; D. Harrison, BA *Lond.*, Admin. Asst.: W. K. Brooks, BA *Manch.*; Jean M. Crabb, BSc(Econ) *Lond.*; Maureen W. Davis; Muriel L. Wood, Rosemary M. David; Stella Smith.

BURSAR'S DEPARTMENT. Finance Officer: A. Bellamy, FCA. Bldgs. Officer: D. L. W. O'Dell. Surveyors: O. D. Maguire; A. Turner (Sch. of Agric.). Asst. Finance Officer: D. W. Smith, LL.B. *Lond.* Sr. Asst. Secy: D. B. Brown. Admin. Asst.: Mrs. Millicent S. K. Austin, D. J. Gascayne; P. McCree; T. K. Shaw, Edna Smith.

ADULT EDUCATION CENTRE. Admin. Asst.: K. H. Lawson, MA *Oxon.*; J. H. M. Fox, BA (Forces Educn.).

INSTITUTE OF EDUCATION. Sec.: A. D. May, BA *Lond.*, Admin. Asst.: R. J. Burnford.

LIBRARY. Sub-Librarians: G. L. Hayhurst,

BA *Liv.*, FLA., D. Alice Clarke, BA *Lond.*, FLA. Keeper of MSS.: J. H. Hodson, BA *Manch.*, Librarian, Sch. of Agric.: Nancy W. Rhodes, BA *Lond.*

UNIVERSITY MEDICAL OFFICERS: J. D. Fisher, MC, Walford Thompson, MB BS *Lond.*

UNIVERSITY RADIATION PROTECTION OFFICER: G. D. Parfitt, BSc PhD *Brest.*, FRIC.

CAREERS AND APPOINTMENTS BOARD. Sec.: N. T. Scott, BA *Durk.*, Asst. Sec.: Admin. Asst.: Mrs. Phyllis Denton, BA *Durk.*

WARDENS OF HALLS. Clippes: H. H. Lopes, BA *Edg.*, DUStrav; Derby: A. R. Penckock, MA DPhil DSc *Oxon.*; Hugh Stewart: Rev. W. Neil, MA BD PhD Hon. DD *Glas.*; Lincoln: P. J. Coveney, MA *Cambr.*, Wortley: R. B. Winterhouse, MA PhD *Cambr.*, Florence Root: Eileen M. Spelman, OBE, BA *Lond.*; Florence Nightingale: H. Audrey Beecham, MA *Oxon.*

ACCOMMODATION OFFICER: D. C. Singleton.

ADVISER TO OVERSEAS STUDENTS: Rev. W. Neil, MA BD PhD Hon. DD *Glas.*

## GENERAL INFORMATION

The Univ. originated in the adult sch. establd. in 1798, the Mechanics' Inst. and the People's Coll., developments leading to the Univ. extension lectures inaugurated in Nottingham in 1873—the first in the country—by the Univ. of Cambridge. An anon. gift of £10,000 in 1875 encouraged the corporation of Nottingham to erect a bldg. maintain it, and supply instrum. The bldg., in Shakespeare St., was opened in 1881 as the Univ. Coll., Nottingham, incorporated by royal charter in 1903. There were at first 4 professorships (lit., phys., chem., nat. sci.).

A large estate some 3 miles W. of Nottingham, giving room for expansion, and new bldgs. completed in 1928, were provided by the first Lord Trent, after whom they are now named. In 1918 a supplemental charter reconstituted the governing body, providing for much wider representation. The coll. was relieved in 1945 of responsibility for eng. and pt.-time educn. in the area; in 1947 the Midland Agric. Coll. at Sutton Bonington became the coll. sch. of agric., and an inst. of educn. was founded. Since 1948, when the Univ. charter was granted, 175 acres have been purchased, bringing the site to a total of 295 acres; new bldgs., incl. 4 halls, a biol. bldg., the Portland bldg., containing refectories and students' residences, a chem. bldg., part of the appl. sci. bldg. and the educn. & soc. sci. bldg. have been erected, and 23 new professorships have been establd.

Nottingham (pop. 312,000) is a Univ. and industrial city situated on the N. side of the river Trent, about 124 miles N.N.W. from London.

CONSTITUTION. The supreme governing body of the Univ. is the court, which includes the officers, life members, reps. apptd. by local authorities, reps. of churches, members of parliament of the divisions of the city of Nottingham and certain E. Midland constituencies, ex-officio members, reps. of staff, students and convocation, of other instns. and socs., incl. schs. and colls., and other persons, 3 of whom are nominated by the lord president of the privy council. The chairman of court is the chancellor. Subject to control by the court, the council is the executive of the Univ., responsible for the conduct of all the affairs of the Univ. The council consists of the officers, 3 reps. apptd. by court, reps. of local authorities in the E. Midlands area, 7 senate members, 3 reps. apptd. annually by council and 1 rep. of convocation. It controls the management and admin. of all revenue and property through the bursar and his dept. Subject to control by the council, the senate, which is presided over by the vice-chancellor, regulates academic matters. Its other members are the deans, the profr., the dir. of the inst. of educn., indep. hds. of depts., the librarian, 6 elected members of the non-professional staff and other reps. of fac. bds. as approved by court. To each



fac. bd. are assigned specific powers, incl. that of expressing its opinion to senate on any matter relating to the fac.

**INCOME (1960-61).** Total income, £1,427,532 (principal sources: parliamentary grants, 71.1 per cent.; fees, 21.1 per cent.; local authority grants, 3.5 per cent.; endowments, donations and subs., 5.1 per cent.; other income, 9.2 per cent.).

**FACULTIES AND DEANS** *Agric. & hort.*, Prof. J. D. Ivimey (agric.); *appl. sci.*, Prof. J. E. Parton (electr. engin.); *arts*, Prof. the Rev. Canon A. Richardson (theol.); *educn.*, Prof. M. M. Lewis (inst. of educn.); *law & soc. sci.*, Prof. J. C. Smith (law), *pure sci.*, Prof. A. W. Johnson (chem.).

**UNIVERSITY PRECINCT.** The univ. site is a park bounded by Univ. Boulevard, Clifton Boulevard, Derby Rd., and Beeston Lane. From a N.-S. ridge across the centre, the land falls to level areas on the E. & W. edges of the park. It is planned that the bldgs. of general use, incl. library and senate house, shall be grouped with the non-sci. facs. on the hill in the centre of the site. The pure and appl. sci. facs. will be on the level area to the E. Halls of residence, each with an associated group of tutors' houses, will stand on the central ridge itself and along the N. & W. perimeters. By concentrating the teaching bldgs. in groups, and by keeping the halls mainly on the edges of the site, it will be possible to preserve the park-like nature of the univ. precinct, with belts of tree-covered lawns and meadows lying between and around the groups of bldgs.

The sch. of *agric.*, comprising the fac. of *agric. & hort.*, is located 10 miles from the univ., between Nottingham, Derby and Loughborough. *Address.* Univ. of Nottingham School of Agriculture, Sutton Bonington, Loughborough (tel.: Kegworth 586).

**LIBRARY.** Over 250,000 vols. and pamphlets. Sp. collections incl. the French Revolution & Napoleonic collection, 2000 vols.; the Henry Mellish meteorological collection, 700 vols.; the W. G. Briggs collection of early sch. books; the D. H. Soper collection of 6200 pamphlets on paleobot.; the Sydney Porter collection of bud books, and the Cambridge drama collection. The libr. is an approved repository for memorial documents, and among the more important records are those relating to the Duke of Portland, Earl Marjess, Lord Middleton, Viscount Galway, the Hatfield Chain corp., Mellish Trustees, Newcastle Trustees and the Archdeaconry of Nottingham. Current periodicals number over 500. The main reading rooms accommodate over 400 readers. The libr. at the sch. of *agric.* contains over 13,000 vols. and periodicals, and 14,000 pamphlets.

**LABORATORIES.** Equipped for res. in all sci. subjs. New labs. in chem., bot., and zool., agro. sci., mining engin. and metall.; labs. for other branches of engin. and for phys. under constrcn.

**MUSEUMS.** Archaeological, houses Margidunum collection (made by the late Dr. F. Oswald) of

Roman pottery. Geological. Also sci. collections in various labs. and objects of historical interest distributed about the univ. bldgs. Curator: M. W. Barley, MA, FSA.

**INSTITUTE OF EDUCATION, Univ. Park, Nottingham (tel.: Nottingham 56101) (see also "Teaching Staff", above).** The inst. is responsible for approving courses and examining students preparing to become teachers, youth leaders and tutors in adult educn. It also provides a variety of services for those engaged in educn. in the area. The constituent colls. of the inst. are the Derby, Kesteven, Lincoln, Loughborough, Maccles, City of Nottingham and Nottinghamshire County trg. colls.

**ADMISSION.** See Appendix III. Exceptionally, non-members of the univ. may be admitted to lectures by arrangement with the hd. of the dept.

**FIRST DEGREES.** All first degrees in facs. of arts and law & soc. sci. (BA, BMus, LLB) are based on 3-yr. courses. All courses are for hon. degrees, but if hon. standard is not reached a pass degree may be awarded. BA can be awarded with hon. (a) in fac. of arts, in anc. hist., classics, econ. & soc. hist., Engl., French, geog., German, Greek, hist. (mediev. & mod.), Latin, maths, music, philos., Russian, Spanish, theol., and BA jt. hon. in Engl. & philos., Engl. & econ. & soc. hist., German & philos., Latin & French, Latin & Spanish, maths & philos., theol. & philos.; (b) in fac. of law & soc. sci. in econ., econ. & soc. hist., geog., indust. econ., law, pol., psychol., soc. admin., sociol., and BA jt. hon. in econ. & econ. hist. The hon. subjs. and the other subjs. or subjs. are read for a yrs. for pt. I final exam. after which the hon. subjs. (a subjs. for jt. hon.) is read for pt. II final exam. at end of 3rd yr. Candidates may be transferred to pass degree course, on results of pt. I final exam., also in fac. of arts, at end of 1st yr.

Hons. students in French, German, Spanish and Russian spend 3rd term of 1st yr. at an approved foreign univ.

In fac. of pure sci. courses for pass and hon. degree of BPharm and hon. degree of BSc, all 4-yr., are offered, but period is reduced to 3 yrs. if candidates are exempted from inter. exam. and course of study by reaching satisfactory standard in a G.C.E. exam. or a recog. equivalent exam.

All BPharm students follow the same courses for a yrs. after inter., and divide into pass and hon. courses for last yr.

For BSc in pure sci., all students enter for hon. courses in bot., chem., geog., geol., maths., phys., psychol., zool., or for BSc jt. hon. in bot. & zool., chem. & bot., chem. & geol., chem. & zool., geol. & geog., maths. & econ., maths. & geog., maths. & phys., maths. & phys., phys. & chem., phys. & geol., psychol. & physiol. Candidates read 3 subjs. for pt. I final exam. taken at the end of 1st post-inter. yr., on results of which they are separated into hon., jt. hon., and ord. degree courses. Students may also be transferred to ord. degree course at end of 2nd and post-inter. yr. Pt. II

final exam. is taken at end of 3rd post-inter yr. Pass degree may be awarded on hon. exam. if hon. standard is not reached.

In fac. of agric. & hort. degree of BSc is awarded after 4-yr. course, but exemption from inter. exam. and course may be granted if candidates have reached satisfactory standard in a G.C.E. exam. or recog. equivalent exam. All degree students follow same courses for 2 yrs after inter. for pt. I final exam., after which they are divided for last yr. into BSc hon. (agric. bot., agric. chem., agric. microbiol., agric. zool., agronomy, animal prodn. or hort.), BSc gen. hon. (agric. or hort. or food sci.), and BSc ord. degree (agric. or hort.).

In fac. of appl. sci. all courses are 4-yr., but exemption from inter. exam. and course may be granted if candidates have reached satisfactory standard in a G.C.E. exam. or recog. equivalent exam. The course for chem. engin., however, is 4 yrs. post-inter. The hon. BSc degree is awarded in chem., civil, elect. & mech. engin., metall., mining and prodn. engin., and theoret. mechanics, and BSc degree in civil, elect., mech. and mining engin. The 1st yr. post-inter. course is common to all degree students (except metall.) at end of which pt. I final exam. is taken. In 2nd yr., students specialize in hon. sub. and in 3rd yr. are divided into pass and hon. streams (except that for chem. engin. there is no pass degree). The 3-yr. post-inter. metall. course is an hon. course although pass degree may be awarded if hon. standard is not achieved. In all appl. sci. courses practical experience obtained during vac., in works or mines as appropriate, is essential.

**HONOR. DEGREES.** DLitt, DSc, DD, LLD, DMus—conferred on grads. of the univ. of at least 7 yrs. standing, or on grads. of other approved univs. of at least 7 yrs. standing who have been full-time members of staff of the univ. for at least 4 yrs. for distinguished, substantial and original contributions to learning. PhD—conferred on grads. of this univ., or other approved univs., after normally not less than 2 yrs. full-time directed res. in the univ.; pt-time res. for not less than 4 yrs. may be permitted, if substantial lab. work is not involved. MA, LL.M., MEd, MPhil, MSc—conferred on grads. of the univ. in the appropriate fac. after res. extending over at least 1 yr. and on grads. of approved univs. after at least a yrs.; also conferred on non-grads. under certain conditions, after res. extending over at least 4 yrs. Candidates without the univ. dipl. in educnl. studies cannot be admitted to the MEd course. MA in classics, MSc in mycol., and in water retns. in plants—awarded on an exam. taken after an advanced course of instructn. of at least 1 yr.'s duration. MSc in agric. econ.—awarded on an exam. taken after an advanced course of instructn. of at least 4 terms.

BD—may be conferred on grads. of approved univs. after at least 3 yrs. res. (2 yrs. for holders of a higher degree, by exam. or res. in theol.) who

pass a qualifying exam. and present a satisfactory thesis; 1st or 2nd class hon. in theol. or a higher degree by exam. or res. in theol. exempts from the qualifying exam.

**HONORARY DEGREES.** DD, LLD, DLitt, DMus, DSc, MA.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Dipl. in Engl. studies for overseas students, 1 yr. (candidates must have qualif. comparable with those of a British grad.); appl. soc. studies (17-month course for grads. who have not studied soc. sci., wishing to enter field of child care or probation); adult educn., 1 yr. postgrad.; educnl. studies, 2 yrs. pt-time postgrad. (candidates must have 2 yrs. approved experience in educn. before admission); religious educn., 1 yr.; educn. of backward children (3-yr. pt-time course for qualified teachers); pol., econ. and soc. studies, 4 yrs. (pt-time attendance at extra-mural courses (candidates must be over 21 and pass an entrance exam.); primary educn., soc. educn., 3-yr. pt-time courses at inst. of educn. (candidates must be trained qualified teachers with 3 yrs. teaching experience).

**CERTIFICATES.** Cert. in Engl. studies for overseas students, 1 yr.; theol. & educnl. studies, 3 yrs. (awarded in conjunction with Paton Congregational Coll.); educn., 1 yr. postgrad.

**RESEARCH.** Facilities for res. in all subjs. mentioned under 'First Degrees', above. A complete list of current res. is given each yr. in the Jan. edition of the univ. *Gazette*. A list of theses on which higher degrees have been awarded and details of publd. work are given in *Annual Report*.

**FEES.** *Annual fees* (comprising matric., registration, tuition, exam. and graduation fees, and students' union sub.): Bachelor's degrees—BA, BMus, LL.B., BSc (without lab. facilities), £66, BSc in pure sci. (with lab. facilities), BPharm, BSc in appl. sci., BSc in agric. and hort., £81. Postgrad. study or res. (incl. students' union sub.): with lab. facilities—£81 (full-time); without lab. facilities—£66 (full-time). Dipl. or cert. in Engl. studies, £75; dipls. in adult educn., £63, in religious educn., £71, in educn. of backward children, £15, in agric., £78; cert. in educn., £80.

**ACADEMIC YEAR:** Oct. to June; 3 terms of 10 wks. each.

**UNIVERSITY EXTENSION** (see also 'Teaching Staff', above). The dir. of extra-mural studies is hd. of the dept. of adult educn., and is assisted by a dep. dir., 18 full-time members of staff and many pt-time tutors and lectrs. *Address:* Univ. of Nottingham Adult Educn. Centre, 14 Shakespeare St., Nottingham (tel.: Nottingham 43022). The dept. is responsible for Pilgrim Coll., a non-residential adult coll. in Boston, Lincs., and is closely associated with other adult educn. centres at Quest House, Loughborough, Derby and Twynsey House, Marnock.

POSTGRADUATE AWARDS open to grads. of other univs. ; see p. 610.

**CAREERS AND APPOINTMENTS BOARD.** (For sec., see "Admin. and Other Staff," above) The bd gives advice on careers and assists students to obtain posts on completion of their studies, and temporary employment during univ. vacations.

**GRADUATES' ASSOCIATIONS.** Communication consists of all grads. of the univ., together with officers and the academic staff. Its privileges include nominating reps. on court and council, and entering into communication with court; council or senate on any matter affecting the univ.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above) For men: Hugh Stewart Hall (tel.: Beeston 25-4454), 190 students; Wortley Hall (tel.: Nottingham 75606), 93, with annexes Lenton Hurst, adjoining univ. park, 30, Cripps Hall (tel. Beeston 25-8677), 200, with annexes Lenton Close, 23; Lincoln Hall, 220; Derby Hall, 220. For women: Florence Boot Hall (tel.: Beeston 25-4336), 110 students, in univ. park, with annexes, Broadwood, The Oaks and The Pines, 48; Florence Nightingale Hall (tel.: Beeston 25-5344), 143, with annexes Lenton Fields and Lenton Leas adjoining univ. park, 40. At the Sch. of Agric., Sutton Bonington (tel.: Kegworth 386), there are halls for 12 men and 70 women. Fees in all halls are £180 p.a. for single study bedrooms and £170 p.a. for shared study bedrooms, but the fees are subject to review at any time. Students not in halls or at home must live in univ. registered lodgings.

UNIVERSITY MILITARY AND AIR FORMATIONS.  
The 1959. O.T.C. (T.A.) comprises sub-units of

infantry, engineers and R.E.M.E. Cadets enlist for 2, 3 or 4 yrs.; pay, allowances and uniform are on normal T.A. scales. Women undergrads may become members of the W.R.A.C. (T.A.) sub-unit with similar conditions of service and privileges to those of men cadets in the O.T.C. The Univ. air squadron is in the home command of the R.A.F., and comprises a flying flight and a technical flight.

**STUDENT ATHLETIC FACILITIES.** The university playing fields, nearly 40 acres in extent, adjoin university park, and provide for rugby and association football, hockey, lacrosse, cricket, net-ball and tennis. There is a boat-house at Trent Bridge. Indoor games are played in the indoor sports centre in university park.

**Students' Union** There is a union of students for the promotion of corporate feeling and the general interest of students and to afford a recognized channel of communication between students and the univ. authorities. All full-time students become members.

**PUBLICATIONS.** *Calendar*—2s., annually (Oct.), *Gazette* (once a term); *Annual Report* (Dec.), *Faculty and Departmental Prospectus*—2s., annually (Sept.), *Scholarships, Fellowships and Prizes*—2s., annually; *Course in English Studies for Overseas Students, Regus for Higher Degrees, General Regus and Information for Students*—annually. *Regus for Matric and Faculty Admission Requirements*. The *Bulletin of the Inst. of Educn*—1s. 6d. for 3 issues, published once a term. *Students' mags.*—The *Gown*—1s., once a term; *Survey*—1s., once a term, *Union Handbook*—annually (issued free to all students).

## THE YEAR 1961

PRINCIPAL BENEFICIARIES. 3 grants totalling £12,050 from U.K. Atomic Energy Authority for specific res. projects in dept. of chem.

RAHMENTEN, Prof. V. de S. Pinto (Engl.);  
Dr. N. Davy (phys.), Dr. H. H. Barber (phar-  
macol.)

**DISSEMINATIONS** P. E. Fordham (extra-mural studies), to appt. in E. Africa; Dr. N. M. Greenwood (chem.), apptd. to chair of inorg. chem. King's Coll., Newcastle upon Tyne; Dr. H. K. M. Lloyd (metall.), apptd. to chair at Cardiff; A. G. Mackenzie (sub-librarian), apptd. dep. librarian, Brotherton libr., Leeds; Dr. R. I. Page (Engl.), apptd. lectr., Camb.; H. Haring (sec. sch. agric.), apptd. registrar, Agric. Coll., Cranfield; C. N. Thompson (surveyor, sch. agric.), apptd. asst. burzar (works), Brix.

HONORARY DEGREES *DMus*—E. Benjamin Britten, composer *DLit*—Sir William Coldstream, prof of fine art, Univ. Coll., Lond. Kathleen Major, principal, St Hilda's Coll. Oxon. *LLD*—C. T. Cripps, industrialist and benefactor. Sir Francis Hill, pro-chancellor.

W. G. Briggs, p.a.-chancellor; Baroness Wootton of Abinger, not scientist DSe—Sir Howard Florey, prof. of pathol., Oxon.; G. Kron, electr. engin consultant, H. H. Swannerton, formerly prof. of geol., Nott MA—J. H. R. Nilton, industrialist, H. Willatt, lawyer; J. W. Haldeman, principal, Loughborough Tig. Coll., Gladys Buxton, alderman, Derbyshire county council.

## Statistics

Stupant Numacze, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1850	282
Women	806	57
Total	2656	339

Distribution by Faculties. *Agric.*, 262; *appl.*, 391; *arts*, 527; *educn.*, 170; *law & soc. sci.*, 328; *fine art.*, 228. Total, 2606.

*Included in the figures above are —*

Postgraduate students, 515

New admissions, 987

Students from other countries, 140 (Countries from which largest numbers came: Nigeria, 21; India, 12; Fed. of Malaya, 10; Germany, 10; Sudan, 9; U.S.A., 9; France, 8).

DEGREES AWARDED (1960-61). *Agric.* BSc, 16; BSc hon., 22; MSc, 7; PhD, 5. *Appl. Sci.* BSc, 21; BSc hon., 51; MSc, 6; PhD, 12. *Arts*. BA, 14; BA hon., 135; MA, 12; PhD, 4. *Edn.* MEd, 3. *Law & soc. sci.* BA, 6; BA

hon., 113; MA, 4; PhD, 3. *Puresci.* BPharm, 28; BPharm hon., 12; BSc, 83; BSc hon., 112; MPharm, 2; MSc, 13; PhD, 29. *Total number of first degrees awarded, 613*

DIPLOMAS AWARDED (1960-61). *Dairyng.* 13; *Engl. studies for overseas students*, 4; *pol., econ. & soc. studies*, 16; *educn. studies*, 6

CERTIFICATES AWARDED (1960-61). *Engl. studies for overseas students*, 8; *educn.*, 119; *theol. & educn. studies*, 1

# UNIVERSITY OF OXFORD§

Founded in the 12th century

Postal Address: Oxford, England

Cables and Telegrams: University Registry, Oxford

Telephone (Registry): Oxford 48491 (For telephone numbers of university departments, see p. 1275)

CHANCELLOR—The Rt. Hon. M. H. MACMILLAN, Hon. DCL *Durh.*, Hon. LLD *A N U & Ceyl.*, MA DCL, FRSE, Hon. Fellow of Balliol College

HIGH STEWARD—The Rt. Hon. LORD SIMONDS, D Litt *R'dg.*, MA Hon. DCL, Hon. Fellow of New College

VICE-CHANCELLOR—W. F. OAKESBOTT, Hon. LLD *St And.*, MA, FSA, Rector of Lincoln College

PROCTORS—J. H. SANDERS, [Oriel], BSc *Lond.*, MA DPhil, G. D. G. HALL, [Exeter], MA

ASSASSIN OF THE CHANCELLOR'S COURT—Sir HUMPHRY WALDOCK, [All S.], QC, CMG, OBE, MA DCL

PUBLIC ORATOR—A. N. BRYAN-BROWN, [Worc.], MA

BODLEY'S LIBRARIAN—J. N. L. MYERS, [Ch. Ch.], Hon. LLD *Tor.*, MA, FSA, FRHistS

KEEPER OF THE ARCHIVES—W. A. PANTIN, [Oriel], MA, FBA, FRHistS

REGISTERAR—Sir FOLLIOTT H. SANDFORD, [New], KBE, CMG, MA

SECRETARY OF FACILITIES—C. H. PATTERSON, [Corp.], MA

SECRETARY TO THE CURATORS OF THE UNIVERSITY CHURCH—H. H. KUHN, [Ball.], MA, FCA

## TEACHING STAFF

[\*—Common University Fund Lecturer (see p. 1269), †—Part-Time]

The name of the college of which the teacher is a present member is denoted by one of the abbreviations in the following list. Names of teachers who are also heads, fellows, or lecturers of colleges recur in the college entries on pp. 1250-1268.

All S.	All Souls College	Lin.	Lincoln College	S. Ben.	St. Benet's Hall
Ball.	Balliol College	Magd.	Magdalen College	S. Cat.	St. Catherine's College
Bris.	Brisnrose College	Mansf.	Mansfield College	S. Edm.	St. Edmund Hall
Camp.	Campion Hall	Mert.	Merton College	S. Hil.	St. Hilary's College
Ch. Ch.	Christ Church	New	New College	S. Hug.	St. Hugh's College
Corp.	Corpus Christi College	Nuff.	Nuffield College	S. Joh.	St. John's College
Exeter	Exeter College	Oriel	Oriel College	S. Pet.	St. Peter's College
Grayf.	Grayfriars	Pemb.	Pembroke College	Som.	Somerville College
Hertf.	Hertford College	Qu.	The Queen's College	Trin.	Trinity College
Jesus	Jesus College	Reg. P.	Regent's Park College	Univ.	University College
Kebble	Kebble College	S. Ann.	St. Anne's College	Wadh.	Wadham College
L.M.H.	Lady Margaret Hall	S. Ant.	St. Antony's College	Worc.	Worcester College
Lit. H.	Lincro House				

### Agricultural Economics

Clark, C. G., [Banc.], Hon. ScD *Milan*,  
MA Dir., Inst. for Res. in Agric. Econ.

### University Demonstrators

Hunt, K. E., [Exeter], MA *Cambr. & Oxon.*  
Hirsch, G. P. H., [Linc.], MA (Rural Soc. Orgn.)  
Mumder, A. H., [Linc.], BSc *R'dg.*, MS *Corn.*, MA  
Antill, A. G., [S. Cat.], MA

Beckett, W. H., [Ball.], BSc *Lond.*, MA *Cambr. & Oxon.*

Allen, G. R., [S. Edm.], MA

### Senior Research Officer

Jones, G. T., BA *Cambr.*

### Research Officer

Frankel, H., [Ball.], MA

§ Member of the Association of Universities of the British Commonwealth

**Agriculture**

Blackman, G. E., [S. Joh.], BA Comp., MA, FRS (Rural Econ.) Subthorpe Prof.  
Nye, P. H., [Bull.], BSc MA (Soul Sci.) Reader  
Harley, J. L., [Qu.], MA DPhil (Plant Nutr.) Reader

**University Demonstrators**

Soper, M. H. R., [Qu.], OBE, MA  
Massfield, G. B., [Ball.], MA  
Barry, J. M., [Qu.], MA DPhil  
Lucas, R. L., [New], PhD Camb., MA  
Clarke, J. R., [S. Joh.], BSc B.A., MA DPhil  
Huggs, J. W. Y., [Breter], MA Camb. & Oxon.  
Beckett, P. H. T., [Wadh.], MA  
Smith, D. C., [Qu.], MA DPhil

**Senior Research Officers**

Martin, R. P., [Magd.], MA DPhil  
Loughman, B. C., [Lanc.], BSc Wales, PhD Camb., MA

**Anatomy, Human**

Harris, G. W., [Hertf.], MA DSc DM Camb. & Oxon (Anat.) Dr. Lee's Prof.  
Weddell, A. G. M., [Oriel], MD DSc Lond., MA Reader  
Barer, R., [Hertf.], MC, MB BS BSc Lond., MA DScr  
Crawford, G. N. C., [Exeter], MB BS Lond., MA DScr  
Powell, T. P. S., [S. Joh.], MA DScr  
Dick, D. A. T., [Mert.], MB ChB Glas., MA DPhil DScr  
Cowan, W. M., [Pemb.], BM MA DPhil DScr  
Meek, G. A., [Magd.], BSc PhD Lond., MA Sr Res. Officer

**Anglo-Saxon, see English**

**Anthropology, Physical**

Werner, J. S., [Hertf.], PhD Lond., MSc Lond., MA Reader  
Roberts, D. F. B., [Worc.], MA DPhil DScr

**Anthropology, Social**

Evans-Pritchard, E. E., [All S.], PhD Lond., MA, FBA Prof.  
Paristany, J. G., [Oriel], PhD Camb., MA DPhil, FRAI Sr. Lectr.  
Beattie, J. H. M., [Linc.], BA Dub., BLitt MA DPhil Sr. Lectr.  
Needham, R., [Mert.], BLitt MA DPhil Lectr.

**Arabic**

Beeston, A. F. L., [S. Joh.], MA DPhil Londian Prof.  
Walzer, R. R., [Oriel], DPhil Berol., MA, FBA (A. & Greek Philos.) Reader  
Lewis, G. L., [S. Joh.], MA DPhil (Islamic Studies) Sr. Lectr.  
Jones, A., [Ball.], MA Camb. & Oxon. (Islamic Hist. & Turkish) Lectr.  
Richards, D. S., [Mert.], MA Lectr.

**Aramaic and Syriac**

Brockington, Rev. L. H., [S. Cat.], BD Lond., MA Sr. Lectr.

**Archaeology**

Hawkes, C. F. C., [Keele], MA, FRAI, FBA, FSA (European A.) Prof.  
Robertson, C. M., MA Camb. & Oxon. (Classical A. & Art) Lincoln Prof.  
Richmond, I. A., [All S.], CBE, Hon. LL.D. Esq., Hon. Litt.D. Lectr. & Mans., Hon. D.Lit. Belf., MA, FBA, FSA (A. of Roman Empire) Prof.  
Boardman, J., [Wadh.], MA Camb. & Oxon. (Classical A.) Reader  
Hulst, P., [Ch. Ch.], MA (Nr. Eastern A.) Lectr.  
\*Gray, Dorothée H. F., [S. Hug.], OBE, MA (Homeric A.) Lectr.  
Baden-Powell, D. F. W., [Oriel], BSc MA (Prehistoric A.) Lectr.  
Hall, E. T., [New], MA DPhil (Dur. of Res. Lab. for A. & Hist. of Art  
Aitken, M. J., [Wadh.], MA DPhil (Dep. Dir. of Res. Lab. for A. & Hist. of Art

**Art, see also Archaeol.**

Wund, E., [Trin.], DPhil Hamburg, MA (Hist. of A.) Prof.  
Blunt, Sir Anthony, KCVO, PhD Camb., MA Camb. & Oxon, FBA, FSA, Slade Prof. (1952-63)  
Horton, P. F., [New], MA (Drawing) Ruskin Master  
Picht, O. E., [Oriel], PhD Heidelberg, MA, FBA (Medieval A.) Reader

**Assyriology**

Gurney, O. R., [New], MA DPhil, FSA Shillito Reader

**Astronomy**

Blackwell, D. E., [New], PhD Camb., MA Camb. & Oxon. Savilian Prof.  
Adam, Midge G., [S. Hug.], MA DPhil DScr.  
Petford, A. D., [New], MA DPhil Grad. Asst.  
Ingham, M. F., PhD MA Camb. Sr. Res. Officer

**Biochemistry**

Krebs, Sir Hans A., [Trin.], MD Hamburg, Hon. DSc Camb., Sherrif. & Lond., Hon. MD Frank., Hon. LL.D. Glas., MA Camb. & Oxon, FRS Whitley Prof.  
Woods, D. D., [Trin.], PhD Camb., MA Camb. & Oxon, FRS (Chem. Microbiol.) Iveagh Prof.  
Carter, C. W., [Qu.], BM MA Reader  
O'Brien, J. R. F., [Pemb.], BSc MA (Clin. B.) Reader  
Parsons, D. S., [Mert.], MA DM DScr.  
Parker, G. D., [Keele], BSc MA DPhil, FRIC DScr.  
Kens, P. W., [Ch. Ch.], BSc PhD Birm., MA DPhil, FRIC DScr.

- Burt, V. S., [Qu.], BSc PhD *Brist.*, MA  
(Bot. & B.) Demr.  
Tucker, R. G., [Ball.], BSc BM MA Demr.  
Ord, Margery G., [L.M.H.], BSc  
PhD *Lond.*, MA Demr.  
Bartley, W., [S. Cat.], BSc PhD *Sheff.*,  
MA Demr.  
Whittam, R., [New], PhD *Sheff. & Camb.*,  
MA Demr.  
Lascalle, June, [Som.], MA DPhil  
(Microbiol.) Demr.  
Pasternak, C. A., [Magd.], BSc MA Demr.  
Whatehouse, M. W., [Kebble], BSc MA Demr.  
Griffiths, D. E., BSc *Wales*, DPhil *A.N.U.*  
DPhil Demr.  
Stocken, L. A., [S. Cat.], BSc *Lond.*, MA  
DPhil, FRIC Sr. Res. Officer  
Acheson, R. M., [Qu.], BSc MA DPhil  
(Human Nut.) Sr. Res. Officer  
Cecil, R., [Ball.], DFC, MA DPhil  
Sr. Res. Officer

**Biometry**

- Hadley, N. T. J., [Ch. Ch.], MA *Camb. &*  
*Oxon.*, DSc Reader  
Scott, J. F., [Ch. Ch.], MA *Camb. & Oxon.*  
Demr.  
Bolmer, M. G., [Mert.], MA DPhil Demr.

**Botany, see also Agric.**

- Darlington, C. D., [Magd.], PhD *Lond.*,  
DSc *Lond. & Oxon.*, MA, FRs  
Sherardian Prof.  
Clowes, F. A. L., [Magd.], MA DPhil Demr.  
Burt, V. S., [Qu.], BSc PhD *Brist.*, MA  
(B. & Biochem.) Demr.  
Bevan, E. A., [Univ.], BSc *Wales*, PhD *Glas.*,  
MA Demr.  
Fuller, K. W., [Mert.], PhD *Camb.*,  
MA *Camb. & Oxon.* Demr.  
Woodell, S. R. J., [Pemb.], PhD *Durh.*,  
MA Demr.  
Lewis, K. R., [Lanc.], MA Demr.  
Warburg, E. F., [Ch. Ch.], PhD *Camb.*,  
MA Druce Curator

**Celtic**

- Foster, L. L., [Jesuit], MA *Wales & Oxon.*,  
FSA Jesus Prof.  
Grosjean, Rev. P., O'Donnell Lectr.

**Chemistry, Inorganic**

- Brewer, F. M., [Linc.], MRS, PhD *Corn.*,  
BSc MA, FRIC Reader  
Linnest, J. W., [Qu.], MA DPhil, FRs Reader  
Sturvel, L. A. K., [New], MA Demr.  
Woodward, L. A., [Jesuit], PhD *Leip.*, BSc  
MA Demr.  
Phillips, C. S. G., [Mert.], MA Demr.  
Williams, R. J. P., [Wadh.], MA DPhil Demr.  
Buckingham, A. D., [Ch. Ch.], MSc *Syd.*,  
PhD *Camb.*, MA *Camb. & Oxon.* Demr.

- Venzoni, L. M., [Magd.], DiplChem *Kiel*,  
DrChem *Tynte*, MA DPhil Demr.  
Rossetti, F. J. C., [S. Edm.], BSc MA  
DPhil Demr.

**Chemistry, Organic**

- Jones, E. R. H., [Magd.], DSc *Manc.*, PhD  
*Wales*, Hon. DSc *Syd.*, MA, FRs  
FRIC Wynne Prof.  
Smith, J. C., [New], MSc *N.Z.*, PhD *Manc.*,  
MA DSc Reader  
Waters, W. A., [Ball.], PhD *Sci. Camb.*,  
MA *Camb. & Oxon.*, FRs, FRIC  
(Phys. Org. C.) Reader  
Bartrop, J. A., [Bray], BSc MA DPhil Demr.  
Tomlinson, Mabel L., [S. Hil.], MA *Camb.*  
& *Oxon.*, DPhil DSc, FRIC Demr.  
Polgar, N., [S. Cat.], DPhil *Vienne & Oxon.*,  
MA DSc Demr.  
Young, G. T., [Jesuit], BSc *Birm.*, PhD  
*Brist.*, MA, FRIC Demr.  
Bailey, A. S., [Oriel], BSc MA DPhil Demr.  
Brown, B. R., [Oriel], MA DPhil Demr.  
Halsall, T. G., [Magd.], MSc PhD *Manc.*,  
MA Sr. Res. Officer  
Whiting, M. C., [Lanc.], BSc PhD *Lond.*,  
MA Sr. Res. Officer  
Mearns, G. D., [Bris.], MA DPhil Grad. Asst.  
Thaller, V., [Magd.], Dr *Zagreb*, MA Grad. Asst.

**Chemistry, Physical**

- Hinshelwood, Sir Cyril N., [Exeter], OM,  
Hon. ScD *Dub. & Camb.*, Hon. DSc  
*Lond., Leeds, Sheff., Brist. & Hull*, Hon.  
LLD *Wales*, MA DSc *Hon. DCl.*,  
FRIC, FRs (Chem.) Dr Lee's Prof.  
Thompson, H. W., [S. Joh.], CBE,  
PhD *Bert.*, MA DSc, FRs  
(Intra-Red Spectroscopy) Reader  
Bell, R. P., [Ball.], MA, FRs Reader  
Richards, R. E., [Linc.], MA DPhil, FRs Reader  
Sutton, L. E., [Magd.], MA DPhil, FRs Reader  
Bowen, E. J., [Univ.], MA DSc, FRs  
Aldrichian Professor, Demr.  
Lambert, J. D., [T'win.], MA Demr.  
Barrow, R. F., [Exeter], BSc *Lond.*, MA  
DPhil  
Gasser, R. P. H., [Corp.], MA DPhil Demr.  
Dean, A. C. R., [S. Cat.], BSc *Glas.*, MA  
DPhil, FRIC Sr. Res. Officer  
Coles, B. A., [Magd.], MA DPhil  
Sr. Res. Officer  
Danby, C. J., [Ware], BSc MA DPhil  
Grad. Asst.

**Chinese**

- Hawkes, D., [Univ.], MA DPhil Prof.  
Dawson, R. S., [Wadh.], MA Lectr.  
Bourne, G., [Qu.], MA (C. & Japanese) Lectr.  
\*Chen, R. S. Y., [New], BSc *Nomdel.*, MA Lectr.

**Classical Languages and Literatures**

- Lloyd-Jones, P. H. J., [Ch. Ch.],  
MA *Camb. & Oxon.* (Greek) Regius Prof.

Mynors, Sir R. A. B., [Corp.], Hon. DLitt  
Durh., MA Camb. & Oxon., FBA  
(Latin) Corpus Christi Prof  
Palmer, L. R., [Worc.], BA Waler, DrPhil  
Pinner, PhD Camb., MA  
(Compar Philol.) Prof.  
Barns, J. W. B., [Corp.], MA DPhil  
(Papyrol.) Sr. Lectr.  
Weinstock, S., [Exeter], PhD Bres., MA  
(Roman Religion) Sr. Lectr.

University Lecturers.

(Classical Philol.)  
Hunt, R. W., [Ball.], MA DPhil, FBA  
(Palmog. & Transmission of Classical  
Latin Texts) (†)  
Parsons, P. J., [Ch. Ch.], BA  
(Documentary Papyrol.)  
Barbour, Ruth, [S. Hug.], MA  
(Greek Palmog.) (†)

\*Barrett, W. S., [Kehle], MA  
\*Levens, R. G. C., [Mert.], MA  
\*Hardes, C. F., [Magd.], MA  
\*Wells, A. F., [Univ.], OBE, MA  
\*Griffith, J. G., [Jesus], MA  
\*Bolton, J. D. P., [Qu.], MA  
\*Hickes, Winifred F., [L.M.H.], MA DPhil  
\*Russell, D. A. F. M., [S. Joh.], MA  
\*Forbes, R. C., [New], MA Camb. & Oxon.  
\*Hardley, Mildred, [Som.], MA Camb. & Oxon.  
\*Burton, R. W. B., [Oriel], MA  
\*Ryan-Brown, A. N., [Worc.], MA  
\*Dodd, G. W., [Pemb.], BA Dub., MA  
\*Nisbet, R. G. M., [Corp.], MA Glas. & Oxon.  
\*Stinton, T. C. W., [Wadh.], MA  
\*Gould, J. P. A., [Ch. Ch.], MA Camb. & Oxon.  
\*Walliams, G. W., [Ball.], MA Dub. & Oxon.  
\*Hubbard, Margaret E., [S. Ann.], MA  
\*Ogilvie, R. M., [Ball.], MA  
\*Reynolds, L. D., [Bris.], MA Camb. & Oxon.  
\*Raven, D. S., [Trin.], BLitt MA  
\*Adkins, A. W. H., [Exeter], MA DPhil

Commonwealth Economic Affairs,  
see Soc. Studies

Commonwealth Government, see Soc.  
Studies

Commonwealth Studies

Madden, A. F., [Nuff.], BLitt MA DPhil Dir.  
Holdsworth, Mrs. Mary, [S. Hug.], MA  
Sr. Res. Officer

Computing Laboratory

Fox, L., [Ch. Ch.], MA DPhil DSc Dir.  
Rollett, J. S., [Magd.], MA Camb. & Oxon.,  
PhD Leeds Sr. Res. Officer  
Mayers, D. F., BA PhD Camb., MA  
Sr. Res. Officer  
Hanscomb, D. C., [Ch. Ch.], MA  
Sr. Res. Officer

Criminology, see Soc. Studies

Crystallography

Hodgkin, Mrs. Dorothy M., [Som.], PhD  
Camb., Hon. DSc Leeds & Manc., BSc  
MA, FRs  
Title of Prof., Isaac Wolfson Prof. of  
Ryol. Soc.  
Powell, H. M., [S. Joh.], BSc MA, FRs  
(Chemical C.) Reader

Divinity, see Theol.

Eastern Religions and Ethics

Zachner, R. C., [All S.], MA Spalding Prof.  
Economics, see also Econ. and Stats. and  
Soc. Studies

University Lecturers

Worawick, G. D. N., [Magd.], MA  
\*Hall, Lady (Laura M.), [Som.], MA  
\*Ady, Miss Peter H., [S. Ann.], MA  
\*Leyland, N. H., [Bris.], MA  
\*Henderson, F. D., [Lanc.], MA  
\*Clegg, H. A., [Magd. & Nuff.], MA  
\*Streeten, P. P., [Ball.], MA Abord. & Oxon.  
\*Richardson, G. B., [S. Joh.], BSc Abord., MA  
\*Paul, Mrs. Margaret E., [S. Hil.], BPhil MA  
\*MacDougall, Sir Donald, [Ball.], Wadh. & Nuff.,  
CBE, MA  
\*Barnagwanth, L. E., [Jesus], BA Med., BPhil  
MA  
\*Wright, J. F., [Trin.], MA  
\*Scott, M. F., [Ch. Ch.], BLitt MA  
\*Black, J., [Mert.], MA  
\*Hargreaves, E. L., [Oriel], PhD Lond., MA  
\*Stout, D. K., [Univ.], MA  
\*Eltis, W. A., [Exeter], MA  
\*McMahon, C. W., [Magd.], MA  
\*Opie, R. G., [New], BPhil MA  
\*Dimadale, N. R., [Qu.], BA  
\*Andrews, F. W. S., [New & Nuff.],  
BSc(Econ.) Lond., MA (†)  
Seton, F., [Ball. & Nuff.], MA DPhil (†)

Economics and Statistics

Jackson, E. F., [S. Ant.], BCom Blau,  
MA Dir. of Inst.  
Knowles, K. G. J. C., [New], MA  
Sr. Res. Officer  
Hammersley, J. M., [Trin.], MA DSc  
Sr. Res. Officer

Education

Peterson, A. D. C., [Ball.], OBE, MA  
Dir. of Dept.  
Loukas, H., [Jesus], MA  
Griffiths, V. L., [Kehle], OBE, MA Sr. Tutor  
Tomlinson, Leila, [Som.], MA Sr. Tutor  
Goodrich, Rachel M., [S. Hil.], MA Sr. Tutor  
Sprent, R. A. Le G., [Trin.], BSc Lond.,  
MA Sr. Tutor  
Henford, P. E., [Univ.], BSc Leeds, MA  
Yates, M. A., [Univ.], BA Sheff., MA Sr. Tutor  
Burrows, R. G., [S. Pet.], MA Sr. Tutor



Williamson, Violet, [S. Hil.], BD Lond.,  
MA  
Hutchings, D. W., MSc Lond.  
Backhouse, J. K., [Exeter], MA  
Bolton, D. W., BA Lond.  
Martin, J., BSc Lond.  
Hails, W. D., [Ball.], DPhil  
Campbell, G. F., BSc Durh  
Keir, S. M., MA Lov.

Tutor  
Tutor  
Tutor  
Asst. Tutor  
Asst. Tutor  
Asst. Tutor  
Asst. Tutor

### Egyptology

Černý, J., [Qu.], PhD Prague, MA, FBA Prof.

### Engineering Science

Holder, D. W., [Bras.], PhD DSc Lond.,  
MA, FRS Prof.  
Motz, H., [Magd.], Dring Vienna.  
MSc Dub., MA Donald Pollock Reader  
Wise, B., [Trin.], MA Camb. & Oxon.  
Campbell, J. D. E., [Mert.], MA Camb. &  
Oxon., DPhil Demr.  
Wilson, S. S., [Bras.], MA Demr.  
Todd, J. D., [S. Edm.], MA DPhil Demr.  
Basilikos, J. E., [Magd.], MSc Stew.,  
PhD Lond., MA Demr.  
Franklin, R. E., [Worc.], BSc PhD Lond.,  
MA Demr.  
Lund, P. G., [Ch. Ch.], MA Demr.  
Woods, L. C., [Ball.], MA DPhil DSc Demr.  
Schultz, D. L., [Oriel], MA DPhil Demr.  
Lightfoot, E., [Pemb.], MSc Lond.,  
PhD Leeds, MA Demr.

### English

Wrenn, C. L., [Pemb.], MA  
(Anglo-Saxon) Rawlinson & Bosworth  
Prof.  
Davis, N., [Mert.], MBE, MA N.Z. & Oxon.  
(E. Lang. & Lit.) Merton Prof.  
Coghill, N. H. K. A., [Mert.], MA, FRSL  
(E. Lit.) Merton Prof.  
Cecil, Lord David, [New], CH, Hon. LittD  
Leeds, Hon. DLitt Lond., Hon. DLitt  
Glas., Hon. LLD St. And. & Lew., MA,  
FRSL (E. Lit.) Goldsmiths' Prof.  
Graves, R. R., [S. Joh.], BLitt MA (Poetry) Prof.  
Dobson, E. J., [Jesua], BA Syd., MA DPhil  
(E. Lang.) Prof., Reader  
Walker, Alice, [S. Hil.], MA  
(Textual Criticism) Reader  
Turville-Petre, E. O. G., [Ch. Ch.], MA  
BLitt (Anc. Icelandic) Prof., Reader  
Munby, A. N. L., MA Camb.  
(Bibliog.) Lyell Reader  
Ker, N. R., [Magd.], BLitt MA, FBA  
(Palaeog.) Reader  
Gardner, Helen L., [S. Hil.], Hon. DLitt  
Durh., MA, FBA  
(Renaissance E. Lit.) Reader  
University Lecturers  
Leshman, J. B., [S. Joh.], BLitt MA  
(E. Lit.) Sr. Lectr.  
Campbell, A., [Ball.], BA Birn., BLitt MA,  
FRHist (Mediev. E.) Sr. Lectr.

Griffiths, Mary E., [S. Ann.], MA (E. Lang.)  
Jones, H. J. F., [Mert.], MA (E. Lit.)  
Lasselles, Mary M., [Som.], BLitt MA (E. Lit.)  
Bennett, J. A. W., [Magd.], MA N.Z.  
& Oxon., DPhil (E. Lit.)

\*Dyson, H. V. D., [Mert.], BLitt MA  
\*Lea, Kathleen M., [L.M.H.], MA  
\*Bateson, F. N. W., [Hert.], BLitt MA  
\*Bysson, J. N., [Ball.], MA  
\*Horwood, F. C., [S. Cat.], MA  
\*Houghton, Rev. R. E. C., [S. Pet.], MA  
\*Ing, Mrs. Catherine M., [L.M.H.], MA DPhil  
\*Morrison, Christine L., [S. Ann.], MA  
\*Stewart, J. I. M., [Ch. Ch.], MA  
\*Robson, W. W., [Lanc.], MA  
\*Bayley, P. C., [Univ.], MA  
\*Bednarowski, Mrs. Dorothy M., [S. Ann.], MA  
\*Buxton, E. J. M., [New], MA  
\*Graddon, Pamela O. E., [S. Hug.], PhD Lond.,  
MA  
\*Kean, Patricia M., [L.M.H.], MA  
\*Ward, A., [Wadh.], MA  
\*Midgley, Rev. E. G., [S. Edm.], MA BLitt  
\*Mackenzie, Elizabeth G. W., [L.M.H.], MA  
\*Alton, R. E., [S. Edm.], MC, MA  
\*Elliot, Anne H., [S. Hil.], MA  
\*Tuckett, Mabel R., [S. Hug.], MA  
\*Tolkien, C. R., [New], BLitt MA  
\*Horgan, A. D., [S. Cat.], MA  
\*Browning, I. R., [Pemb.], MA  
\*Bayley, J. O., [New], MA  
\*Mitchell, R. B., [S. Edm.], MA MEd & Oxon.,  
DPhil

\*Jones, E. L., [Magd.], MA  
\*Syfret, Rosemary H., [Som.], MA Camb. & Oxon.  
\*Bussan, Celia, [S. Hil.], MA  
\*Wordsworth, J. F., [Exeter], MA  
\*Ricks, C. B., [Worc.], BLitt MA  
\*Gray, D., [Pemb.], MA N.Z. & Oxon.  
\*Burrows, J. A., [Jesua], MA  
\*Miller, B. D. H., [Bras.], BLitt MA  
\*Ingham, Mrs. Patricia T., [S. Ann.], MA  
\*Carey, J., [Keeble], MA DPhil  
\*Burden, D. H., [Lanc.], MA  
\*Woolf, Rosemary E., [Som.], BLitt MA

### Entomology, see Zool.

### Ethnology and Prehistory

Penniman, T. K., [Trin.], MA, FSA  
Curator of Pitt Rivers Museum  
Demonstrators  
Butt, Audrey J., [L.M.H.], BA Lond., BLitt MA  
DPhil, FRAI  
Burridge, K. O. L., [Exeter], MA  
Britton, D., [Qu.], MA

### Lecturer

Baden-Powell, D. F. W., [Oriel], BSc MA  
(Prehist. Archaeol.)

### Forestry

Laurie, M. V., [S. Joh.], OBE, MA Camb. &  
Oxon. Prof.  
Chalk, L., [Univ.], MA DPhil, FLS  
(Wood Anst.) Reader

**Demonstrators**

- Jones, E. W., [Magd.] PhD Camb., MA Camb. & Oxon.  
 Dumbleby, G. W., [Magd.], MA BSc DPhil  
 Handley, W. R. C., [S. Joh.], PhD Leeds, MA  
 Leyton, L., [Qu.], BSc PhD Leeds, MA  
 MacGregor, J. J., [Ball.], BSc Glas., MS Wit., BLitt MA  
 Thompson, G. H., [S. Edm.], BSc MA  
 Edwardson, T. E., [Wedh.], BSc Edin., MA  
 Osmaston, F. C., [S. Joh.], MA  
 White, F., [Ball.], BA Camb., MA  
 Gordon, W. A., [Trin.], MA  
 Pitt, C. J. W., [Wedh.], MA  
 Hoyle, A. C., [Femb.], BSc MA (Bot)  
 Tinsley, T. W., [Worc.], PhD Lond., MA (Forest Pathol.)

**French**

- Seznes, J. J., [All S.], DsL Paris, Hon. MA Hon. D Litt Harv., MA, FBA  
 (F. Lit.) Marshal Foch Prof.  
 Starkie, Enid M., [Som.], DsL Paris, Hon. D Litt Exe., MA D Litt, FRSL  
 (F. Lit.) Reader

**University Lecturers**

- Robson, C. A., [Ch. Ch.], BLitt MA  
 (F. Philol. & Old F. Lit.) Sr. Lectr.  
 Sayce, R. A., [Worc.], MA DPhil (f)  
 Perman, R. C. D., [S. Pet.], MA (f)  
 Fargher, R., [S. Edm.], BLitt MA DPhil (f)  
 Moore, W. G., [S. Joh.], D Litt Stran., MA  
 Sutherland, Mrs. D. Rhoda, [L.M.H.], MA  
 Crow, A. D., [Oriol.], BLitt MA  
 Macdonald, I., [Qu.], MA Glas. & Oxon.  
 Barnes, Mrs. Annie M., [S. Ann.], DPhil Berne, MA DPhil  
 Gerard Davis, Mrs. Mary L., [S. Hil.], MA DPhil  
 Shackleton, R., [Bras.], MA  
 Armstrong, Mrs. Annette E., [Som.], MA DPhil  
 Howarth, W. D., [Jesus], MA  
 Crow, Mrs. Jean, [L.M.H.], MA  
 Thomas, J. M., [New], MA DPhil  
 Barnett, F. J., [Trin.], MA  
 Potts, D. C., [Kebble], MA  
 Baldock, R. A. E., [Femb.], MA DPhil, FRSL  
 Gill, A., [Magd.], CBE, MA Mans. & Oxon.  
 Booth, Miss. Marjorie B., [S. Ann.], BLitt MA  
 Rant, A. W., [Exeter], MA DPhil  
 Stewart, D. M., [Wedh.], BA  
 Whitton, D. F., [Linc.], BLitt MA  
 Krallesteimer, A. J., [Ch. Ch.], MA  
 Daniel, Vera J., [S. Hug.], BA PhD Lond., MA  
 Harris, R., [Exeter], MA DPhil  
 Tolley, R. R., [Univ.], BA

**Geodesy, see Surveying**

**Geography**

- Gilbert, E. W., [Hertf.], BLitt MA Prof.  
 Gullick, C. F. W. R., [S. Edm.], BLitt MA (Econ. G.) Sr. Lectr.  
 Martin, A. F., [S. Joh.], MA Sr. Lectr.  
 Beckinsale, R. P., [S. Get.], MA Lond. & Oxon., DPhil, FRMetS Sr. Lectr.

- Marshall, Mary, [L.M.H.], MA Sr. Lectr.  
 Paget, E., [Femb.], MA Lectr.  
 Smith, C. G., [Kebble], MA Lectr.  
 Houston, J. M., [Hertf.], MA Edin. & Oxon.  
 Webb, M. J., [Ball.], MA Lectr.  
 Pollock, N. C., [S. Edm.], BA Cape T., BLitt MA Lectr.  
 Emery, F. V., [Jesus], BLitt MA (Hist. G.) Lectr.  
 \*Sweeting, Marjorie M., [S. Hug.], PhD Camb., MA Camb. & Oxon. Lectr.

**Geology**

- Wager, L. R., [Univ.], ScD Camb., MA Camb. & Oxon., FRS, FGS Prof.  
 Sandford, K. S., [Univ.], TD, MA DPhil DSc Reader  
 McKerrow, W. S., [Univ.], DSc Glas., MA DPhil, FGS Demr.  
 Edmonds, J. M., [S. Edm.], MA BSc, FGS Demr.  
 Lambert, R. St. J., [Oriel], PhD Camb., MA Camb. & Oxon., FGS Demr.  
 Reading, H. G., [Univ.], PhD Durh., MA Demr.  
 Brown, G. M., [Univ.], BSc Durh., MA DPhil, FGS (Petrol.) Demr.

**German**

- Stahl, E. L., [Ch. Ch.], MA Cape T. & Oxon., PhD Berne (G. Lang. & Lit.) Taylor Prof.  
 Ganz, P. F., [Hertf.], PhD Lond., MA Lond. & Oxon. Reader

**University Lecturers**

- Baines, H. G., [S. Edm.], PhD Tübingen, MA Sr. Lectr.  
 McIntock, D. R., [Qu.], MA (G. Philol. & Medizw. G. Lit.)  
 McKay, G. W., [Jesus], MA  
 Barlow, D., [Qu.], BLitt MA (G. Lit.)  
 Sayce, Mrs. Olive L., [S. Hug.], MA (f)  
 Calder, W. M., [Qu.], MA (f)  
 Cowan, J., [New], MA Camb. & Oxon. (f)  
 Harvey, Ruth C., [S. Ann.], MA (f)  
 Dyer, D. G., [Exeter], MA (f)  
 Green, R. F., [Jesus], MA (f)  
 Lampert, F. J., [Linc.], BA  
 \*Pasley, J. M. S., [Bras.], MA  
 \*Jacobs, Margaret, [S. Hug.], BLitt MA  
 \*Lutz, F. D., [Ch. Ch.], MA DPhil

**Greek, see Classical Langs. & Lits.**

**Greek, Byzantine and Modern Language and Literature**

- Trypanis, C. A., [Exeter], DPhil Athens, MA Bywater & Sotheby Prof.  
 Fletcher, R. A., [Trin.], DSC, MA DPhil (Mod. G.) Lectr.

**Hebrew**

- McHardy, Rev. W. D., [Ch. Ch.], MA Aberd., Edin. & Oxon., BD Hon. DD Regius Prof.  
 Aberd., DPhil

Emmison, Rev. J. A., [Corp.], BD Camb.,  
MA Camb. & Oxon.

(Semiotic Philol.) Reader

Patterson, D., [Ch. Ch.], MA *Adm.* & *Oxon.*  
(Post-Biblical H.) Crowley Lectr.

### History, Ancient

Syme, Sir Ronald, [Brit.], Hon. DLitt Durh.  
& N.Z., MA, FBA Camden Prof.  
Andrews, A., [New], MBE, MA, FBA  
Wykeham Prof

### University Lecturers

Lewis, D. M., [Ch. Ch.], PhD *Prin.*, MA  
(Greek Epigraphy)  
Fraser, P. M., [All S.], MC, MA, FBA  
(Hellenistic H.)

- \*Baldson, J. P. V. D., [Exeter], MA
- \*Sherwin-White, A. N., [S. Joh.], MA, FBA
- \*Henderson, Mrs. M. Isobel, [Som.], MA
- \*Chilver, G. E. F., [Qu.], MA DPhil
- \*Lepper, F. A., [Corp.], MA
- \*Stevens, C. E., [Magd.], BLitt MA
- \*Gray, E. W., [Ch. Ch.], MBE, BA *Adel.*, MA
- \*Harrison, A. R. W., [Mert.], CBE, MA
- \*Holladay, A. J., [Trin.], MA
- \*Bunt, F. A., [Oriel], MA
- \*Cawthell, G. L., [Univ.], MA N.Z. & Oxon
- \*Jeffery, Lilian H., [L.M.H.], MA Camb. & Oxon, DPhil, FSA
- \*Forrest, W. G. G., [Wadh.], MA
- \*de Ste Croix, G. E. M., [New], BA *Leid.*, MA
- \*Stockton, D. L., [Bras.], MA
- \*Meiggs, R., [Ball.], MA, FBA
- \*Coff, P. J., [Pemb.], MA DPhil
- \*Mutchell, Mrs. Barbara M., [S. Ann.], MA
- \*Levick, Barbara M., [S. Hil.], MA DPhil
- \*Friedman, M. W., [Worc.], MA

### History, Modern

Trevor-Roper, H. R., [Oriel], MA Regius Prof.

..... (H. of British Commonwealth) Best Prof.

Southern, R. W., [All S.], MA, FBA,  
FRHistS Chichele Prof.

Wernham, R. B., [Worc.], MA, FRHistS Prof.  
Gibbs, N. H., [All S.], MA DPhil

(H. of War) Chichele Prof.  
Current, R. N., [Qu.], AB *Oxon.*,  
PhD *Wis.*, MA

(American H.) H. V. Ransworth Prof  
(1962-63)

Habskuk, H. J., [All S.], MA Camb. & Oxon.,  
FRHistS (Econ. H.) Chichele Prof.

Obolensky, Prince D., [Ch. Ch.], PhD Camb.,  
MA (Russian & Balkan H.) Prof.

Davies, C. C., [Ball.], BA *Wales*, PhD Camb.,  
MA, FRHistS (Indian H.) Reader

Hoskins, W. G., [Ch. Ch.], MSc (Econ.)  
PhD *Leid.*, MA, FRHistS (Econ. H.) Reader

Roth, C., [Mett.], BLitt MA DPhil, FRHistS  
(Jewish Studies) Reader

Chaplain, P. T. V. M., [Wadh.], MA  
(Diplomatic) Reader

### University Lecturers

Bennett, G., [New], MA  
(Commonwealth H.) Sr. Lectr.

Crombie, A. C., [All S.], BSc *Med.*,  
PhD Camb., MA (H. of Sci.) Sr. Lectr.

Feldhouse, D. K., [Qu.], MA  
(H. of British Commonwealth) Best Lectr.

Douglas, D. C., [Kebble], MA, FBA  
(English H.) Ford's Lectr.

McFarlane, K. B., [Magd.], MA, FSA,  
FRHistS (Late Mediev. H.)

Pantin, W. A., [Oriel], MA, FBA, FRHistS  
(Mediev. Archaeol. & H.)

Taylor, A. J. P., [Magd.], Hon DCL  
NewBr., MA, FBA (Intelect. H.)

Smalley, Beryl, [S. Hil.], PhD *Maunc.*, MA  
*Maunc. & Oxon.*, FRHistS

Hill, J. E. C., [Ball.], MA, FRHistS  
(16th & 17th Cent. H.)

\*Harnard, Norman D., [L.M.H.], MA DPhil,  
FRHistS

\*Armstrong, C. A. J., [Hertf.], MA, FRHistS

\*Reeves, Marjorie E., [S. Ann.], PhD *Leid.*,  
MA, FRHistS

\*Ramsey, G. D., [S. Edm.], MA DPhil, FRHistS

\*Gough, J. W., [Oriel], MA

\*Cox, A. D. M., [Univ.], MA

\*Markham, F. M. H., [Hertf.], MA

\*Collins, E. G., [Bras.], BLitt MA

\*MacLagan, M., [Trin.], MA, FSA

\*Prestwich, J. O., [Qu.], MA, FRHistS

\*Barr, W. G., [Exeter], MA

\*Bell, H. E., [New], MA Camb. & Oxon., FSA

\*Jell, J. B., [S. Ant.], MA

\*Kemp, Betty, [S. Hug.], BA *Maunc.*, MA

\*Buono de Mesquita, D. M., [Ch. Ch.], PhD  
Camb., MA Camb. & Oxon., FRHistS

\*Prestwich, Mrs. Menna, [S. Hil.], MA, FRHistS

\*Smith, E. H. P., [S. Pet.], MA

\*Strait, C. H., [Ch. Ch.], MA

\*Thompson, A. F., [Wadh.], MA

\*Watson, J. S., [Ch. Ch.], MA, FRHistS

\*Whitman, E. Anne O., [L.M.H.], MA DPhil,  
FSA, FRHistS

\*Carr, A. R. M., [New], MA

\*Colvin, H. M., [S. Joh.], MA, FRHistS

\*Leyser, K. J., [Magd.], MA

\*Price, P. D., [Kebble], BLitt MA, FSA, FRHistS

\*Brook, M. G., [Corp.], MA

\*Cooper, J. P., [Trin.], MA

\*Hale, J. R., [Jesus], MA

\*Pelling, H. M., [Qu.], PhD Camb., MA Camb.  
& Oxon., FRHistS

\*Pitt, H. G., [Worc.], MA

\*Stone, L., [Wadh.], MA

\*Stoye, J. W., [Magd.], MA DPhil

\*Green, Rev. V. H. H., [Lanc.], MA DD Camb.  
& Oxon., FRHistS

\*Wood, Mrs Susan M., [S. Hug.], BLitt MA

\*Highfield, J. R. L., [Mert.], MA DPhil

\*Aston, T. H., [Corp.], MA

\*Davies, K. G., [New], MA Camb. & Oxon.

- \*Mascoe, J. F. A., [Ch. Ch.], MA DPhil  
 \*Hart, Mrs. Jennifer M., [S. Ann.], MA  
 \*Ramm, Agatha, [Som.], MA *Lausd & Oxon.*  
 FRHistS  
 \*Morris, Rev. C., [Pemb.], MA  
 \*Holmes, G. A., [S. Cat.], PhD *Camb.*, MA *Camb.*  
 & *Oxon.*  
 \*Roberts, J. M., [Mart.], MA DPhil  
 \*Macdonald, P. G., [Pemb.], MA  
 \*Frost, J. M., [Ball.], MA  
 \*Sims, E., [Keeble], MA DPhil  
 \*Owen, J. B., [Anc.], BSc *N.Z.*, MA *N.Z.* &  
*Oxon.* DPhil  
 \*Dickson, P. G. M., [S. Cat.], MA  
 \*Cohn, E. S., [Bras.], MA  
 \*Davis, R. H. C., [Mert.], MA, FSA, FRHistS  
 \*Cordrey, Rev. H. E. J., [S. Edm.], MA  
 \*Duck, Mrs. Cecilia R., [L.M.H.], MA  
 \*Harvey, Barbara F., [Som.], BLitt MA  
 \*Firth, A. E., [Univ.], BA  
 \*Parker, R. A. C., [Qu.], MA DPhil  
 \*Thomas, K. V., [S. Joh.], MA  
 \*Lewis, P. S., [All S.], MA  
 \*Campbell, J., [Ware], MA  
 \*Walsh, J. D., [Jesus], PhD *Camb.*, MA *Camb.*  
 & *Oxon.*  
 \*Bennett, G. V., [New], MA DPhil  
 \*Campbell, A. E., [Keeble], MA  
 \*Zeldin, T., [S. Ant.], MA DPhil  
 \*Keen, M. H., [Ball.], BA

**Industrial Relations, see Soc. Studies**

**International Relations, see Soc. Studies**

**Italian**

- Grayson, C., [Magd.], MA  
 (I. Studies) *Serena Prof.*  
 Read, T. B. W., [Trin.], MA LLB *Dub.*,  
 LL.M. *Montpelier*, MA *Mans.* & *Oxon.*  
 (Romance Langs.) Prof.  
 Griffith, T. G., [Qu.], BLitt MA Lectr.  
 Roaf, Mrs. Evelyn C. M., [Som.], MA Lectr.  
 DPhil Lectr.  
 Horne, P. R., [Jesus], BLitt MA Lectr.

**Latin, see Classical Langs. and Lits.**

**Law**

- Daube, D., [All S.], PhD *Camb.*, DrJur *Göt.*,  
 Hon. LL.D. *Edin.*, MA DCL, FBA  
 (Civil L.) Regius Prof.  
 Hanbury, H. G., [All S.], QC, MA DCL  
 (English L.) Vinerian Prof.  
 Wade, H. W. R., [S. Joh.], LL.D. *Camb.*,  
 MA *Camb.* & *Oxon.*, DCL  
 (English L.) Prof.  
 Waldo, Sir Humphrey, [All S.], QC,  
 CMG, OBE, MA DCL  
 (Public Internat. L.) Chichele Prof.  
 Hart, H. L. A., [Univ.], MA (Jurisp.) Prof.  
 Lawson, F. H., [Bras.], DrJur *Louvain* &  
*Frank.*, Hon. LL.D. *Glas.*, DCL, FBA  
 (Comper. L.) Prof.

- Honold, A. M., [Qu.], BA *S.A.*, BCL MA  
 (Roman-Dutch L.) Rhodes Reader  
 Nicholas, J. K. B. M., [Bras.], MA  
 (Roman L.) All Souls Reader  
 Payne, D. J., [All S.], LL.B. *Lausd.*, MA  
 (English L.) All Souls Reader  
 Morris, J. H. C., [Magd.], MA DCL  
 (Conflict of Laws) Reader  
 University Lecturers

- Cress, A. R. N., [Magd.], MA DCL  
 (L. of Evidence)

- \*Tylor, T. H., [Ball.], BCL MA  
 \*Devidge, C. V., [Keeble], BCL MA  
 \*Brown, A. B., [Ware], BCL MA  
 \*Butterworth, J. B., [New], MA  
 \*Carter, F. B., [Wash.], BCL MA  
 \*Houston, R. F. V., [Pemb.], BA LLB *Dub.*, MA  
 \*Maudslay, R. H., [Bras.], LL.B. *Born.*, BCL MA  
 \*Slade, E., [S. Joh.], MA  
 \*Hall, G. D. G., [Exeter], MA  
 \*Yardley, D. C. M., [S. Edm.], LL.B. *Born.*,  
 MA DPhil  
 \*Burn, E. H., [Ch. Ch.], BCL MA  
 \*Truett, G. H., [Magd.], BCL MA  
 \*Davies, J. D., [New], LL.B. *Wales*, BCL MA  
 \*Rogerson, A., [Jesus], MA  
 \*Sampson, A. W. B., [Linc.], MA  
 \*Guest, A. G., [Univ.], MA  
 \*Milsom, S. F. C., [New], MA *Camb.* & *Oxon.*  
 \*Barton, J. L., [Mert.], BCL MA  
 \*Harris, D. R., [Ball.], BA LL.M. *N.Z.*, BCL MA  
 \*Kaye, J. M., [Qu.], BCL MA  
 \*McLaggan, M. A., [Ch. Ch.], MA  
 \*Watson, W. A. J., [Oriel], MA DPhil  
 \*Reynolds, F. M. B., [Ware], BCL MA  
 \*Bentley, D. J., [Hert.], BCL MA  
 \*Kelly, J. M. D., [Trin.], BLitt MA  
 Hoffmann, L. H., [Univ.], BCL MA

**Local Government, see Soc. Studies**

**Luganda**

- Snodgrass, R. A., [All S.], MA Lectr.

**Mathematics**

- ..... (Geom.) Savilian Prof.  
 Temple, G. P. J., [Qu.], CBE, PhD  
 DSc *Lausd.*, MA, FRS, FRAeS  
 (Nat. Philos.) Sedleian Prof.  
 Hargreaves, G., [Magd.], MA DPhil, FRS  
 (Pure M.) Weynflete Prof.  
 Coulson, C. A., [Wash.], PhD *Camb.*,  
 DSc *St. And.*, MA *Camb.* & *Oxon.*,  
 FRS, FIP Rouse Ball Prof.  
 James, I. M., [S. Joh.], MA DPhil Reader  
 Atiyah, M. F., [S. Cat.], PhD *Camb.*,  
 MA *Camb.* & *Oxon.*, DPhil, FRS Reader  
 University Lecturers

- Phillips, E. G., [Keeble], MA DPhil  
 Tyley, A. B., [S. Cat.], MA DPhil  
 (Fluid Dynamics)  
 Edwards, D. A., [Corp.], MA DPhil

- Corner, A. L. S., [Worc], PhD Camb.,  
MA Camb. & Oxon.  
Screaton, G. R., [Univ.], PhD Camb.,  
MA Camb. & Oxon.  
\*Thompson, J. H. C., [Wadh.], MA DPhil  
\*Rushbridge, Ida W., [S. Hug.], MSc Lond., MA  
DPhil DSc  
\*Thompson, E. C., [Jesus], MA  
\*de Wet, J. S., [Ball.], BSc Cape T., PhD Priv.,  
MA Camb. & Oxon. (Math. Phys.)  
\*Watson, P. D., [Mert.], MA DPhil  
\*Mauldon, J. G., [Corp.], MC, MA  
\*Cobbe, Anne F., [Som.], MA DPhil  
\*Davies, H., [Ch. Ch.], MA DPhil  
\*Gravest, K. A. H., [New], BSc PhD Lond., MA  
\*Rayner, Margaret E., [S. Hil.], MSc Lond., MA  
DPhil  
\*Kearley, Mary J., [S. Ann.], MA DPhil  
\*Lewis, J. T., [Bras.], MA  
\*McLeod, J. B., [Wadh.], MA  
\*Ingleton, A. W., [New], BSc PhD Lond., MA  
\*Murray, J. D., [Hert.], BSc PhD SLand., MA

## Junior Lecturers

- Robinson, P. D., [Oriel], MA DPhil  
Sutherland, W. A., [Wadh.], MA St. Aud. &  
Oxon.

## Medicine, see below

## Metallurgy

- Hume-Rothery, W., [S. Edm.], OBE, PhD  
Lond., Hon. DSc Manc., MA DSc,  
FRS Isaac Wolfson Prof.  
Christian, J. W., [Qu.], MA DPhil  
George Kelley Reader  
Martin, J. W., [S. Cal.], PhD Camb., MA  
Camb. & Oxon., DPhil Lectr.  
Altmann, S. L., [Wadh.], PhD Lond., MA  
(Theory of Metals) Lectr.  
Helliwell, A., [Keeble], MA DPhil Demr.

## Mineralogy

- Vincent, E. A., [S. Joh.], BSc PhD R'g.,  
MA, FRIC, FGS Reader  
Butler, B. C. M., [Jesus], PhD Camb.,  
MA Camb. & Oxon. Demr.

## Music

- Westrup, Sir Jack A., [Wadh.], BMus MA  
Hon. DMus, FBA Heather Prof  
Harrison, F. L., [Mert.], MusD Dub., MA  
DMus Reader  
Rabbra, C. E., [Worc.], OBE, Hon  
DCL Durh., MA Se. Lectr  
Sternfeld, F. W., [Exeter], PhD Yale, MA Lectr.  
Andrews, H. K., [New], MusD Dub., MA  
DMus †Lectr.  
Roe, B. W. G., [Magd.], MusB Camb., MA  
Camb. & Oxon., DMus, FRCO  
Choragus, †Lectr.  
\*Watson, S., [Ch. Ch.], MA DMus,  
FRCM, FRCO Lectr.  
\*Dalton, H. J. M., [Qu.], MA, FRCO Lectr.

- \*Lumsden, D. J., [New], MusB PhD Camb.,  
MA Camb. & Oxon., DPhil Lectr

## Near East, Modern History of

- Hourani, A. H., [Magd.], MA Lectr.

## Numismatics

- Sutherland, C. H. V., [Ch. Ch.], MA DLitt  
Lectr.

- Kraay, C. M., [Magd.], MA DPhil  
(Greek N.) Lectr.

## Paleography, see Engl.

## Papyrology, see Classical Langs. &amp; Lit.

## Persian

- Morrison, G., [Corp.], MA Lectr.

## Philology, Comparative, see Classical Langs. &amp; Lit.

## Philosophy

- Kneale, W. C., [Corp.], Hon. LLD Aberd.,  
MA, FBA (Moral P.) White's Prof.  
Ryle, G., [Magd.], MA  
(Metaphysical P.) Waynflete Prof.  
Ayer, A. J., [New], MA, FBA  
(Logic) Wykeham Prof.  
Farrell, B. A., [Ball.], BLitt MA  
(Mental P.) Wilde Reader  
Dummett, M. A. E., [All S.], MA  
(P. of Maths.) Reader  
Minnio-Paluello, L., [Oriel], MA DPhil,  
FBA (Medieval P.) Reader  
Owen, G. E. L., [Corp.], BPhil MA  
(Anc. P.) Reader  
John Locke Lectr.

## University Lecturers

- Harrod, H. R., [Univ.], BSc N.Z.,  
MA N.Z. & Oxon., BPhil (P. of Sci.)  
\*Mabbot, J. D., [S. Joh.], CMG, Hon. MA  
Edit., BLitt MA  
\*Robinson, R., [Oriel], PhD Corn., BLitt MA  
\*Macnabb, D. G. C., [Pemb.], MA  
\*Cox, H. H., [Line.], MA  
\*Grice, H. P., [S. Joh.], MA  
\*Strawson, P. F., [Univ.], MA  
\*Kneale, Mrs. Martha, [L.M.H.], MA  
\*Crombie, I. M., [Wadh.], MA  
\*Dick, M. W., [Ball.], MA  
\*Foot, Mrs. Philip R., [Som.], MA  
\*Hare, R. M., [Ball.], MA  
\*Mitchell, B. G., [Keeble], MA  
\*Mitchell, D., [Worc.], MA  
\*Turner, Rev. V. G., [Camp.], MA  
\*Warnock, G. J., [Magd.], MA  
\*Gardiner, P. L., [Magd.], MA  
\*Pears, D. F., [Corp.], MA  
\*Quinton, A. M., [New], MA  
\*Sutton, C. W. H., [S. Pet.], MA  
\*Wood, O. P., [Ch. Ch.], MA  
\*Ackrill, J. L., [Bras.], MA

- Warnock, Mrs Helen M., [S. Hug.], BPhil MA
- Sanoopoulos, J. C., [S. Cat.], BPhil MA
- Rees, D. A., [Jesus], MA DPhil
- McGumies, B. F., [Qu.], BPhil MA
- Thomson, J. F., [Corp.], DFC, BA Lond., MA Camb. & Oxon
- Cohen, L. J., [Qu.], MA
- Ancecombe, G. Elizabeth M. (Mrs Geach), [Som.], MA
- Lemmon, E. J., [Trin.], MA
- Urman, J. O., [Corp.], MC, MA
- Hinton, J. M., [Worc.], MA St And. & Oxon.
- Gosling, J. C. B., [Wadh.], BPhil MA
- Maipaz, R. M. P., [Hertf.], BPhil MA
- Wolfram, Mrs Eva M. S., [S. Hil.], MA DPhil
- Kirwan, C. A., [Exeter], MA
- Lucas, J. R., [Met.], MA
- Wiggins, D. R. P., [New], MA
- Woods, M. J., [Bras.], BPhil MA
- Mouthore, A. C. R. G., [Ball.], MA

# Physics

- Blaney, B., [Wadh.], MA DPhil, FRS  
(Exper. Philos.) Dr. Lee's Prof.
- Kuhn, H. G., [Ball.], DPhil Göt., MA, FRS Reader
- Mendelssohn, K. A. G., [Wadh.], DPhil Berl., MA Berl. & Oxon. FRS, FIP

- Kurtz, N., [Bras.], PhD Berl., MA, FRS, FIP Reader

# Demonstrators

- Cooke, A. H., [New], MBE, MA DPhil
- Griffiths, J. H. E., [Magd.], OBE, MA DPhil
- Rollin, B. V., [Wadh.], MA DPhil
- Sanders, J. H., [Oriol.], BSc Lond., MA DPhil
- Senes, G. W., [S. Edm.], MA DPhil, FAPS
- Berman, R., [Univ.], MA Camb. & Oxon., DPhil
- Bagguley, D. M. S., [Bras.], MA DPhil
- Hatton, J., [Exeter], MA DPhil
- Wilks, J., [Perm.], MA DPhil
- Woodgate, G. K., [S. Pet.], MA DPhil
- Rosenberg, H. M., [Bras.], MA DPhil
- Wolf, W. F., [New], MA DPhil
- Baker, J. M., [Mert.], MA DPhil
- Mims, W. B., [Wadh.], MA DPhil
- Hayes, W., [S. Joh.], DPhil

# Sensor Research Officers

- Hall, R. W., [Corp.], MA DPhil
- Robinson, F. N. H., [Wadh.], MA DPhil
- Gorton, G., [Bras.], MA DPhil
- Wood, M. F., [Ch. Ch.], MA

# Graduate Assistants

- Craft, A. J., [Ch. Ch.], MA DPhil
- Green, T. L., [Exeter], BSc MA

# Lecturers

- Hurst, C., [Jesus], MA DPhil
- Blaney, Mrs Betty L., [S. Hug.], MA
- Parry, W. E., [Oriol.], MA DPhil

# Physics, Atmospheric

- Houghton, J. T., [Jesus], MA DPhil, FRS Reader

# Physics, Nuclear

- Wilkinson, D. H., [Ch. Ch.], PhD Camb., MA Camb. & Oxon. (Exper. Phys.) Prof

# Demonstrators

- Price, P. V., [Worc.], BSc MA DPhil
- Collie, C. H., [Ch. Ch.], BSc MA
- Rosf, D., [Ch. Ch.], MA DPhil
- Davies, W. T., [Kebble], PhD Camb., MA Camb. & Oxon

# Sensor Research Officers

- Grace, M. A., [Ch. Ch.], MA DPhil
- Shaw, P. F. D., [Jesus], MA DPhil
- Moffatt, J., [Qu.], MA DPhil
- Shaw, D. F., [Kebble], MA DPhil
- Williams, W. S. C., [Ch. Ch.], PhD Lond., MA
- Clegg, A. B., [New], MA
- Tanner, N. W., [Hertf.], MSc Medb., PhD Camb., MA

- Mulvey, J. H., PhD Brst.
- Derrick, M., [Ch. Ch.], PhD Birm., MA
- Fisher, P. S., BSc Lond., PhD Birm.

# Research Officers

- Leknamathan, S., MSc Delhi, PhD Col.
- Radogic, D., PhD Camb.
- Prakash, Y., PhD Aliq

# Physics, Theoretical

- Peters, R. E., [New], CBE, DPhil Lnp., DSc Manc. & Lev., MSc Birm., MA Camb. & Oxon., FRS

- (from 1/10/63) (Phys.) Wykeham Prof.

- ter Haar, D., [S. Edm.], DSc Ley., MA St And. & Oxon., DSc
- Spiers, J. A., [Wadh.], MA DPhil
- Elliott, R. J., [S. Joh.], MA DPhil
- Bin-Stoyle, R. J., [Wadh.], MA DPhil

- Senior Res. Officer

- O'Brien, Mary C. M., [L.M.H.], MA DPhil Lectr.
- Caine, C. A., [S. Pet.], MA DPhil Lectr.
- Bank, D. M., [Ball.], MA DPhil Lectr.
- Roaf, D. J., [Exeter], BA

# Physiology

- Brown, Sir G. Linder, [Magd.], CBE, MSc MB ChB Manc., Hon. LLD St And., DUZag, MA, FRCP, FRS

- Waynflete Prof.

- Coxon, R. V., [Exeter], MD Lond., MA DPhil, FRCS, MRCP (Humus P.) Reader
- Phillips, C. G., [Trin.], BSc MA DM, MRCP (Neurophysiol.) Reader

# Demonstrators

- Leach, E. H., [Bras.], BSc MA
- Gordon, G., [Bras.], BSc MA DM
- Cupingham, D. J. C., [Univ.], MB ChB Edin., MA

- Banister, Rachel J., [Som.], BSc Edm., MA
- Lloyd, B. B., [Magd.], MA
- Torrance, R. W., [S. Joh.], BSc BM MA
- Pierne, M. H. L., [Ch. Ch.], DSc Lids, PhD Camb., MA

Matthews, P. B. C., [Ch. Ch.], MA DM  
 Waddicombe, J. G., [New], MA DPhil  
 Senior Research Officer  
 Kay, R. H., [Metst.], MA DPhil

Poetry, see Engl.

Political Economy, Political Theory,  
 see Soc. Studies

Politics, see also Soc. Studies  
 University Lecturers

Crowe, Sybil E., [S. Hil.], PhD Camb.,  
 MA Camb. & Oxon., FRHistS  
 Saton-Watson, C. I. W., [Oriel], MC, MA  
 \*Blake, R. N. W., [Ch. Ch.], MA  
 \*Tite, K., [Magd.], MA  
 \*Knapp, W. F., [S. Cat.], MA  
 \*Hunt, N. C., [Exeter], PhD Camb., MA  
 Camb. & Oxon.  
 \*Polczynski, Z. A., [Metst.], MA St. Aud. &  
 Oxon., DPhil  
 \*Shook, M., [Univ.], MA  
 \*Marshall, G., [Qu.], PhD Glas., MA  
 Manc. & Oxon.  
 \*Proudfoot, Mrs. Mary, [Sons.], MBE, BLitt MA  
 \*Williams, P. M., [Nuff.], MA  
 \*Hurst, M. C., [S. Job.], MA  
 \*Pulzer, P. G. J., [Magd.], MA  
 \*Rose, S., [S. Ant.], MA DPhil  
 Butler, D. E., [New], MA DPhil

Portuguese Studies

Lectr

Psychology

Oldfield, R. C., [Magd.], MA Camb. & Oxon.,  
 FBPoS Prof., Dir. of Inst.  
 Babington Smith, B., [New], CBE,  
 MA Camb. & Oxon. (Exper. P.) Sr. Lectr.  
 Sutherland, N. S., [Magd.], MA DPhil  
 (Exper. P.) Lectr.  
 Crossman, E. R. F. W., [Exeter], MA Camb.  
 & Oxon. (Gen. P.) Lectr.  
 Argyle, J. M., [Exeter], MA Camb. & Oxon.,  
 FBPoS (Soc. P.) Lectr.  
 Vowles, D. M., [Kehle], DPhil  
 (Physiological P.) Lectr.  
 Treisman, M., [Burs.], MB BCh Radcl. BA  
 (Exper. P.) Jr. Lectr.

Russian

Kononov, S., [New], BLitt MA Prof  
 Unbegan, R. O., [Burs.], DesL. Part, MA  
 (Compar. Slav. Philol.) Prof.  
 Foote, I. P., [S. Eden.], MA Lectr.  
 Freeborn, R. H., [Burs.], MA DPhil Lectr.  
 Hingley, R. F., [Coop.], PhD Lond., MA Lectr.  
 Fennell, J. L. L., [Ch. Ch.], PhD Camb.,  
 MA Camb. & Oxon. Lectr.  
 \*Pennington, Anne E., [L.M.H.], MA Lectr.  
 Simmons, J. S. G., [Qu.], MA  
 Librarian-Lectr. in charge of Russian &  
 Slavonic Books

Sanskrit

Burrow, T., [Ball.], PhD Camb., MA Boden Prof.

Social and Administrative Studies

Halsey, A. H., [Nuff.], MA Du  
 Collison, P. C., [S. Cat. & Nuff.], BCom Tutor  
 PhD Burs., MA  
 Taylor, H., [Pemb.], PhD Lond.,  
 MA Lond. & Oxon. Tutor  
 Parker, Mrs. Julia R., [L.M.H.], MA Manc.  
 & Oxon. Tutor  
 Stevenson, Olive, [L.M.H.], BA Tutor  
 Jackson, Dorothy M. Supervisor

Social Studies, see also Econ. and Stats.,  
 and, for lectures in these 2 subjects, Econ. & Pol.

Hicks, J. R., [All S.], DSc(Econ) Lond., BLitt  
 MA, FBA (Pol. Econ.) Drummond Prof.  
 Jewkes, J., [Metst.], CBE, MCom Manc., MA  
 (Econ. Orgn.) Prof.  
 Gorman, W. M., [Nuff.], MA Dub. & Oxon.  
 (Econ.) Prof.  
 Beloff, M., [All S.], BLitt MA, FRHistS  
 (Govt. & Pub. Admin.) Gladstone Prof.  
 Beilm, Sir Isaiah, [All S.], CBE, MA, FBA  
 (Soc. & Pol. Theory) Chichele Prof.  
 Headlam-Morley, Agnes, [S. Hug.], BLitt MA  
 (Internat. Reins.) Montague Burton Prof.  
 Kirkwood, K., [S. Ant.], MA  
 (Race Reins.) Rhodes Prof.  
 Frankel, S. H., [Oriel & Nuff.], PhD DSc  
 (Econ) Lond., MA Radcl. & Oxon.  
 (Commonwealth Econ. Affairs) Prof.  
 Nicholas, H. G., [New], MA  
 (Compar. Study of Instns.) Reader  
 Wilson, B. R., [Wadn.], MA (Social) Reader  
 Harrod, Sir Roy, [Ch. Ch. & Nuff.], Hon.  
 LLD Aberd., MA, FBA  
 (Internat. Econ.) Nuffield Reader  
 Hartwell, R. M., [Ball. & Nuff.], MA Syd.,  
 & Oxon., DPhil  
 (Recent Soc. & Econ. Hist.) Reader  
 Madden, A. P., [Nuff.], BLitt MA DPhil,  
 FRHistS (Commonwealth Govt.) Reader  
 Walker, N. D., [Nuff.], MA (Criminal.) Reader  
 Munby, D. L., [Nuff.], MA  
 (Econ. & Orgn. of Transport) Reader  
 Bologh, T., [Ball.], DrRerPol Bud., MA  
 (Econ.) Reader  
 Carnell, F. G., [Exeter], BLitt MA  
 (Commonwealth Govt.) Sr. Lectr.  
 Keith-Lucas, B., [Qu.], MA Camb. & Oxon.,  
 (Local Govt.) Sr. Lectr.  
 Flanders, A. D., [Ball.], MA  
 (Indust. Reins.) Sr. Lectr.  
 Myint, H., [Linc.], BA Rangow, PhD Lond.,  
 MA  
 (Econ. of Underdevel. Countries) Sr. Lectr.  
 Schenk, H. G. A. V., [Exeter], DrJur Pragae,  
 MA DPhil  
 (European Econ. & Soc. Hist.) Sr. Lectr.

Footman, D. J., [S. Ant.], CMG, MC, MA  
(Russian Studies) Lectr.  
Katzov, G., [S. Ant.], MA  
(Soviet Econ. & Instns) Lectr  
Suvel, G., [S. Cat.], MA (Econ. Stats) Lectr  
Hicks, Mrs. Ursula K., [Scm.], MA  
(Pub. Finance) Lectr.  
Flamenets, J. P., [All S. & Natl.], MA  
(Soc. & Pol. Theory) Lectr.

**Sociology, see also Soc. Studies**

Lienhardt, R. G., [Exeter], MA Camb. &  
Oxon., DPhil, FRAI (African S.) Sr  
Pocock, D. F., [Qu.], MA Camb. & Oxon.,  
BLitt DPhil, FRAI (Indian S.) Lectr

**Spanish**

Russell, P. E. L. R., [Exeter], MA  
(S. Studies) King Alfonso XIII Prof.  
Jones, C. A., [Magd.], MA DPhil Lectr  
Frang-Mill, R. D. F., [Magd.], MA Lectr.  
Hodcroft, F. W., [Exeter], MA Manc. &  
Oxon. Lectr.  
Glendinning, O. N. V., [Ch. Ch.], MA Camb.  
& Oxon. Lectr.  
Chapman, W. G., [Qu.], MA Aberd. & Oxon.  
† Lectr  
Jensro, L., [Trin.], MA Lectr

**Statistics, see Econ. and Stats.**

**Surveying and Geodesy**

Bomford, G., [Bass.], OBE, MA DSc,  
FGS, FNI Reader  
Robbins, A. R., [Hertf.], BSc MA DPhil  
Sr. Lectr.

**Swahili**

Misure, R. A. J., [Oriel], MA Dub. &  
Oxon. Lectr.

**Theology**

Chadwick, Rev. Canon H., [Ch. Ch.], Hon.  
DD Glas., DD Camb. & Oxon., MusB  
Camb. MA, FBA (Div.) Regius Prof.  
McHardy, Rev. W. D., [Ch. Ch.], MA  
Aberd., Edm. & Oxon., BD Hon. DD  
Aberd., DPhil (Hebrew) Regius Prof.  
Cross, Rev. Canon F. L., [Ch. Ch.], BSc Lond.,  
Hon. DD Aberd., Hon. DTh Bonn, MA  
DPhil DD (Div.) Lady Margaret Prof.  
Demant, Rev. Canon V. A., [Ch. Ch.],  
BSc Durk., MA DLitt  
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Greenalside, Rev. Canon S. L., [Ch. Ch.], Hon.  
DD Edm., MA DD, FBA  
(Eccles. Hist.) Regius Prof.  
Kilpatrick, Rev. G. D., [Qu.], BA Lond., MA DD  
(Evangel. of Holy Scripture)  
Dean Ireland's Prof.  
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(Interp. of Holy Scripture) Oriel Prof.

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& Oxon.  
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Nolloth Prof.  
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MA DPhil (Septuagint) Grandfield Lectr.  
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\*Watson, Rev. W. L. R., [S. Pet.], MA Dub.,  
Camb. & Oxon.  
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& Oxon.  
\*Houlden, Rev. J. L., [Trin.], MA

**Zoology**

Pingle, J. W. S., [Mert.], MBE, ScD Camb.,  
MA Camb. & Oxon., DSc, FRB Linacre Prof.  
Hardy, Sir Alister C., [Mert.], MA DSc,  
FRS (Zool. Field Studies) Prof.  
Varley, G. C., [Jesus], PhD Camb., MA Camb.  
& Oxon. (Entomol.) Hope Prof.

**Readers**

Elton, C. S., [Corp.], MA, FRS (Animal Ecol.)  
Ford, E. B., [Wadh.], MA DSc, FRS (Genetics)  
Baker, J. R., [New.], MA DPhil DSc (Cytol.)  
Tinbergen, N., [Mert.], DPhil Ley., MA,  
FRS (Animal Behaviour)  
Lock, D. L., [Magd.], ScD Camb.,  
MA Camb. & Oxon., FRS (Ornithol.)

**Demonstrators**

Pusey, H. K., [S. Edm.], MA  
Holmes, W., [S. Joh.], MA DPhil  
Needham, A. E., [S. Joh.], MA DSc  
Brunet, P. C. J., [Keeble], MA DPhil  
Müller, P. L., MA PhD Camb.  
Cain, A. J., [Magd.], MA DPhil, FLs  
(Animal Taxonomy)  
Hobby, B. M., [Qu.], MA DPhil, FLs  
(Entomol.)  
Graham, M. W. R. de V., [Oriel], BA Dub.,  
MA DPhil (Entomol.)



## Senior Research Officers

- Kettlewell, H. B. D., [Biol.], MA  
 Southern, H. N., [Qu.], MA (Animal Pop.)  
 Leslie, P. H., [Ch. Ch.], MA DSc (Animal Pop.)  
 Greenwood, G. R., [S. Pet.], MA (Entomol.)

J. W. Jenkinson Memorial Lecturer  
 Tuft, P. H., MA PhD Comb.

## MEDICINE

(for subjs. of the first 3 yrs.—  
 Anst., etc., see above)

## Anaesthetics

- Macintosh, Sir Robert R., [Pemb.], MA  
 DM, FRCSed, FFARCS Nuffield Prof.  
 Epstein, H. G., [Pemb.], PhD Berl., MA,  
 FFARCS First Asst.  
 Parkhouse, J., [Pemb.], MD ChB Ldn.,  
 MA First Asst.

## Bacteriology, see Pathol.

## Biochemistry, Clinical

- O'Brien, J. R. P., [Pemb.], BSc MA Reader

## Geriatrics

- Coom, L. Z., [Magd.], MA, FRCS Lectr.

## Haematology

- Macfarlane, R. G., [Ch. Ch.], MD Lond.,  
 MA, FRS, FRCS Reader

## Medical Research

- Dawes, G. S., [Worc.], BSc MA DM  
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 Ardren, G. M., [Worc.], MA Radiologist  
 Prichard, Myronie M. L., [S. Ann.], MA  
 DPhil Sr. Res. Officer

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 Ghent, MA MD Cmed., DM, FRCP,  
 FRS Regius Prof.  
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 Cranston, W. L., MD ChB Aberd. First Asst.  
 Lee, G. de J., [Pemb.], MD Lond., MA,  
 MRCP 1st Asst.  
 Callender, Sheila T. E., [S. Hal.], BSc  
 MD Sl. Med., MA, MRCP First Asst.  
 Truelove, S. C., [Univ.], MD Camb. &  
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## Medicine, Social

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## Obstetrics and Gynaecology

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 van Heyningen, Mrs. Ruth E., [Som.], MA  
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Skin, Diseases of

Vickers, H. R., MSc MB ChB Sheff.,  
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1962-63—Rev. P. Henry, DStL

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of the Roman Empire  
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DCL  
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of Govt. and Pub. Admin.  
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Miller, F. G. B., BA DPhil  
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Abraham, W. E.  
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 LittD *Utrecht*, Hon. LittD *Durb.*, *Shoff.*,  
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 FBA  
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 Southern, R. W., MA, FRHistS, FBA, *Clushele*  
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Lepton, M., BA  
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 Nicholas, J. K. B. M., MA, *All Souls Reader*  
*in Roman Law*  
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*Lectr. in Hist. of Sci.*

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 Meigs, R., MA, FBA, *Duncan Campbell Mac-*  
*gregor Fellow*, *Jones Fellow*, Tutor in *Anc.*  
*Hist.*, *Professor of Holywell Manor*  
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 Hunt, R. W., MA DPhil, FBA, *Sr. Res. Fellow*  
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 de Wet, J. S., BSc *Cape T.*, PhD *Prin.*, MA  
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*Notfield Prof. of Surg.*  
 Harris, D. R., BA LL.M. *N.Z.*, BCL MA, Tutor  
*in Jurispr.*, *Dean of Degrees*

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*Phys.*  
 Gwynne, M. D., MA DPhil, *Mount Endowment*  
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 Paton, W. D. M., JP, MA DM, FRSt, *Prof. of*  
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 Giffin, J., BA, *Dyson Jr. Res. Fellow*  
 McCollough, W. G., MA, *Sr. Res. Fellow in*  
*Management Studies*  
 Bennett, P. G., MA, *Domestic Bursar*  
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 Cobb, R. C., MA, Tutor in *Hist.*  
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 Brunet, P. C. J., MA DPhil, Tutor in *Zool.*  
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*Tutor in Forestry*  
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 Holland, D. G., MA, Tutor in *Econ.*  
 Sanders, P. G. H., MA DPhil, Tutor in *Phys.*  
 Foster, M. A., BA, Tutor in *Biochem.*

## BRASENOSÉ COLLEGE

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Students in residence (1961-62), 333 Telephone: Oxford 43641.

Principal—Sir Noel F. Hall, AM *Prin.*, MA

## Fellows

- Cohn, E. S., MA, Tutor, *Lectr. in Mod. Hist.*  
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Syme, Sir Ronald, Hon. DLitt Durh. & N.Z., MA, FBA, Camden Prof. of Anc. Hist.  
Leyland, N. H., MA, Tutor, *Lectr. in Econ., Barrister*  
Bagguley, D. M. S., MA DPhil, Tutor, *Lectr. in Phys.*  
Akrill, J. L., MA, Tutor, *Lectr. in Philos.*  
Unheggen, B. O., DSc Paris, MA, Prof. of Compar. Slavonic Philol.  
Stockton, D. L., MA, Tutor, *Lectr. in Anc. Hist.*  
Reynolds, L. D., MA Camb. & Oxon., Tutor, *Lectr. in Greek & Latin Lit.*

- Lewis, J. T., PhD Belf., MA, Tutor, *Lectr. in Maths.*  
Woods, M. J., BPhil MA, Tutor, *Lectr. in Philol., Jr. Dean*  
Duvosa, J. W., LLB Birm., BCL MA, Stallybarns Jr. Res. Fellow in Law  
Reed, T. J., BA, Platonist Jr. Res. Fellow in Mod. Langs.  
Holden, D. W., PhD DSc Lond., MA, FRS, Prof. of Eugen. Sci.  
Clark, C. G., Hon. ScD Milan, MA, Professional Fellow  
Fowler, A. D. S., MA DPhil, Tutor, *Lectr. in Engl. Lang.*

## Supernumerary Fellow

Grant, A. D., MA

## Lecturers

- Wilson, S. S., MA (Eugen.)  
Houston, J. M., MA Edin. & Oxon., BSc DPhil (Geog.)  
Pasley, J. M. S., MA, Honorary Lectr. in German  
Miller, B. D. H., BLitt MA (Engl. Philol.)  
Freeborn, R. H., MA DPhil, Honorary Lectr. in Russian  
Butler, D. E., MA DPhil (Pol.)  
Gaston, G., MA DPhil (Chem.)  
Baker, Rev. J. A., BLitt MA (Theol.)  
Rosenberg, H. M., MA DPhil (Phys.)  
Truman, R. W., MA (Spanish)  
Harrison, A. J., BA (Econ.)

## CHRIST CHURCH

Projected by Cardinal Wolsey, and established by King Henry VIII in 1546.  
Students in residence (1961-62), 456. Telephone: Oxford 42201.

Dean—Very Rev. C. A. Simpson, MA K.C.N.S. & Oxon., Hon. DD K.C.N.S., STM ThD General Theol. Sem. (N.Y.), Hon. DCL Bishop's, DD

## Canons

- Cross, Rev. F. L., BSc Lond., Hon. DD Aberd., Hon. DTh Bonn, MA DPhil DD, Sub-Dean, Censor Theologiae, Lady Margaret Prof. of Div.  
Demant, Rev. V. A., BSc Durh., MA DLitt, Regius Prof. of Moral & Pastoral Theol.  
Witten-Davies, Ven. C., MA  
Chadwick, Rev. H., Hon. DD Glas., DD Camb. & Oxon., MusB Camb., MA, FBA, Regius Prof. of Div.  
Greenlede, Rev. S. L., Hon. DD Edin., MA DD, FBA, Regius Prof. of Eccles. Hist.

## Students (equivalent to Fellows)

Harrod, Sir Roy, Hon. LLD Aberd., MA, FBA, Tutor

- Myres, J. N. L., Hon. LLD Tor., MA, FSA, FRHistS  
Collic, C. H., BSc MA, Tutor, Dr. Lee's Reader in Phys.  
Ross, D., MA DPhil, Duke of Westminster Res. Student  
Gray, E. W., MBE, BA Adel., MA, Tutor  
Sutherland, G. H. V., MA DLitt, Lectr.  
Watson, J. S., MA, FRHistS, Tutor  
Hill, Lt.-Col. D. V., MA, Steward  
Blake, R. N. W., MA, Tutor  
Stuart, C. H., MA, Tutor  
Bueno de Mesquita, D. M., PhD Camb., MA Camb. & Oxon., FRHistS, Tutor, Secretary  
Stewart, J. I. M., MA, Tutor  
Obolensky, Prince D., PhD Camb., MA, Lectr., Prof. of Russian & Balkan Hist.

Gray, F. A., MA, *Treasurer*  
 Mason, J. F. A., MA DPhil, *Tutor and Librarian*  
 Gould, J. P. A., MA Camb. & Oxon., *Tutor*  
 Davies, H., MA DPhil, *Tutor*  
 Pickering, Sir George W., Hon. DSc Durh. & *Darwinist*, Hon. MD Ghent, MA MD Camb., DM, FRCP, FRS, *Regius Prof. of Med.*  
 Burn, E. H., BCL MA, *Tutor, Sr. Tutor*  
 Watson, S., MA DMus, FRCS, FRCO, *Tutor, Organist*  
 Kent, F. W., BSc PhD Birn., MA DPhil, FRIC, *Tutor, Dr. Lee's Reader in Chem.*  
 Wood, O. P., MA, *Tutor*  
 Lewis, D. M., PhD Prin., MA, *Tutor*  
 Buckingham, A. D., MSc Syd., PhD Camb., MA Camb. & Oxon., *Tutor, Jr. Tutor*  
 Wilkinson, D. H., PhD Camb., MA Camb. & Oxon., FRS, *Prof. of Exper. Phys.*  
 Krailsheimer, A. J., MA, *Tutor*  
 Scott, M. F., BLitt MA, *Tutor*  
 McLaggan, M. A., MA, *Tutor*  
 Matthews, P. B. C., MB BChir Camb., MA DM, *Tutor, Dr. Lee's Reader in Anat.*  
 Grace, M. A., MA DPhil, *Tutor*  
 Pearce, D. F., MA, *Tutor*  
 Luke, F. D., MA DPhil, *Tutor*  
 Lloyd-Jones, P. H. J., MA Camb. & Oxon., *Regius Prof. of Greek*

McHardy, Rev. W. D., MA Aberd., Edin. & Oxon., BD Hon. DD Aberd., DPhil, *Regius Prof. of Hebrew*  
 Pulzer, F. G. J., PhD Camb., BSc(Econ) Lond., MA Camb. & Oxon., *Tutor*  
 Harvey, Rev. A. E., MA, *Res. Student in Theol*  
 Gurdon, J. B., MA DPhil, *Res. Student*

**Lecturers**  
 Baldick, R. A. E., MA DPhil, FRSL  
 Barton, G., MA DPhil  
 Bill, E. G. W., MA, *Archivist*  
 Bushell, P. J., BSc Aberd., MA DPhil  
 Darby, A. M. G., BA  
 Deelman, C. F., BA  
 Dunbabin, J. P. D., BA  
 Griffin, J. F., DPhil  
 Harris, J. R., MA DPhil  
 Johnson, C. M. P., PhD Camb., MA Camb. & Oxon.  
 Lund, P. G., MA  
 Lyons, L., BA  
 Prout, C. K., MA DPhil  
 Rea, J., BA Belf., PhD Lond.  
 Reading, B., BA  
 Steer, B. F., MA  
 Welbourne, M., BPhil MA  
 Zeldin, T., MA DPhil

CORPUS CHRISTI COLLEGE

Founded in 1517 by Richard Fox, Bishop of Winchester. Students in residence (1961-62), 193.  
 Telephone: Oxford 40431

President—W. F. R. Hardie, MA

**Fellows**  
 Elton, C. S., MA, FRS, *Sr. Res. Fellow*  
 Lepper, F. A., MA, *Tutor in Anc. Hist.*  
 Brock, M. G., MA, *Tutor in Mod. Hist., Vice-Pres., St. Tutor*  
 Mealdon, J. G., MC, MA, *Tutor in Maths.*  
 Aston, T. H., MA, *Tutor in Mod. Hist., Librarian*  
 Nisbet, R. G. M., MA Glat. & Oxon., *Tutor in Classics, Ant. Dean*  
 Mynors, Sir R. A. B., Hon. DLit Durh., MA Camb. & Oxon., FBA, *Corpus Christi Prof. of Latin*  
 Thomson, J. F., DFC, BA Lond., MA Camb. & Oxon., *Tutor in Philos.*  
 Jamieson, Brig. G. O. M., CBE, MA, *Bursar*  
 Owen, G. E. L., BPhil MA  
 Paterson, C. H., MA  
 Hill, R. W., MA DPhil, *Tutor in Phys.*

Urmon, J. Q., MC, MA, *Tutor in Philos.*  
 Baker, Rev. J. A., BLitt MA, *Chaplain, Lectr. in Div.*  
 Gasser, R. P. H., MA DPhil, *Tutor in Chem.*  
 Kneale, W. C., Hon. LLD Aberd., MA, FBA, *White's Prof. of Moral Philos.*  
 Jamieson, D. G., BM MA, *Sr. Res. Fellow, Lectr. in Physiol., Dean*  
 Toomer, G. J., MA, *Prælector in Classics*  
 Hodgson, P. E., PhD Lond., MA, *Sr. Res. Fellow*

**Other Lecturers**  
 Taylor, T. H., BCL MA (*Thrup.*)  
 Bateson, F. N. W., BLitt MA (*Engl. Lit.*)  
 Parker, R. A. C., MA DPhil (*Mod. Hist.*)  
 Seton, F., MA DPhil (*Econ.*)  
 Ferman, R. C. D., MA (*Med. Lang.*)  
 Evans, D. A. H., MA (*Engl. Lang.*)

EXETER COLLEGE

Founded in 1314 by Walter de Stapeldon, Bishop of Exeter.  
 Students in residence (1961-62), 300 Telephone: Oxford 44681.  
 Rector—K. C. Wheare, CMG, Hon. LHD Col., MA Melb. & Oxon., DLitt, FBA

**Fellows**  
 Balcan, J. P. V. D., MA, *Margary Fellow, Keeper of the Archives, Lectr. in Anc. Hist., Dean of Degrees*

Hinshelwood, Sir Cyril N., OM, Hon. ScD Dub. & Camb., Hon. DSc Lond., Leeds, Sheff., Brit. & Hull, Hon. LLD Wales, MA DSc Hon. DCL, FRIC, FRS, *Dr. Lee's Prof. of Chem.*

Hart, W. G., MA, *Sr. Tutor, Lectr. in Mod. Hist.*  
 Kemp, Rev. Canon E. W., MA DD, FRHistS,  
*Chaplain, Librarian, Tutor, Lectr. in Theol. &*  
*Mediev. Hist.*

Trypanis, C. A., DPhil Athens, MA, *Bywater &*  
*Schubey Prof. of Byzantine & Mod. Greek*  
*Lang. & Lit.*

Barrow, R. F., BSc Lond., MA DPhil, *Tutor,*  
*Lectr. in Chem.*

Hall, G. D. G., MA, *Tutor, Lectr. in Law*

Hunt, N. C., PhD Camb., MA Camb. & Oxon.,  
*Domestic Bursar, Tutor & Lectr. in Pol.*

Russell, P. B. L. R., MA, *King Alfonso XIII Prof.*  
*of Spanish Studies*

Raut, A. W., MA DPhil, *Besse Fellow, Tutor,*  
*Lectr. in French Lit.*

Coxon, R. V., MD Lond., MA DPhil, FRCS,  
 MRCP, *Professorial Fellow, Lectr. in Physiol.*

Hutton, J., MA DPhil, *Lectr. in Phys.*

Wordsworth, J. F., MA, *Lectr. in Engl.*

Kirwan, C. A., MA, *Sub-Rector, Tutor & Lectr.*  
*in Philos.*

Whitbourne, M. W., BSc MA DPhil, *Stanner Med*  
*Res. Fellow*

Ross, D. J., BA, *Lectr. in Maths.*

Adkins, A. W. H., MA DPhil, *Lectr. in Classical*  
*Lang. & Lit.*

Higgs, J. W. Y., MA, *Finance & Estates Bursar*

#### Other Tutors and Lecturers

Blackington, Rev. L. H., BD Lond., MA (Hebrew)

Beckinsale, R. P., MA Lond. & Oxon., DPhil,  
 FRMetS (Geog.)

Crawford, G. N. C., MB BS Lond., MA (Anat.)

Alton, R. E., MC, MA (Engl. Lang.)

Barltrop, J. A., BSc MA DPhil (Org. Chem.)

Glazebrook, P. R., BA (Law), Jr. Deau

Dyer, D. G., MA (German)

Elms, W. A., MA (Econ.)

Evans, E. A., MA (Bot.)

Watson, S., MA DMus (Music)

Harris, R., MA DPhil (French Philol.)

Crossman, E. R. F. W., MA Camb. & Oxon.

(Psychol.)

Piang-Mill, R. D. F., MA (Spanish)

Deutscher, M. J., BPhil (Philos.)

Seasfield, F. W., MA (Hist. of Music)

#### HERTFORD COLLEGE

First founded in 1740 in succession to Hertford Hall (founded about 1282), and refounded  
 in 1874. Students in residence (1961-62), 181. Telephone: Oxford 41434.

Principal—W. L. Fearar, MA DSc

#### Fellows

Markham, F. M. H., MA, *Lectr. in Mod. Hist.,*  
*Dean*

Armstrong, C. A. J., MA, FRHistS, *Lectr. in*  
*Mod. Hist., Librarian*

Ross, C. R., MA, *Lectr. in Mod. Studies, Drapers'*  
*Company Fellow, Bursar*

Gilbert, E. W., BLit MA, *Prof. of Geog.*

Vaughan-Williams, E. M., MA DSc DM, *Lectr.*  
*in Physiol., Dean of Degree*

Bentley, D. J., BCL MA, *Lectr. in Jurisp., Sr.*  
*Tutor*

Malpas, R. M. P., BPhil MA, *Lectr. in Philos.,*  
*Secretary for Admissions*

Tanner, N. W., MA, *Lectr. in Phys.*

Murray, J. D., BSc PhD St. And., MA, *Lectr. in*  
*Maths*

Blackburn, A. J., BA Camb., Jr. *Res. Fellow in*  
*Econ. & Orgs. of Transport*

Harris, G. W., MA DSc DM Camb. & Oxon.,  
*Dr. Lee's Prof. of Asiat.*

#### Chaplain

Chantry, Rev. R. M., MA

#### Other Lecturers

Houston, J. M., MA Edu. & Oxon., BSc DPhil  
 (Geog.)

Brewer, F. M., MBE, PhD Camb., BSc MA,  
 FRIC (Nat. Sci.)

Fowler, G. T., MA (Ass. Hist.)

Hubbard, Margaret E., MA (Classics)

Burden, D. H., MA (Engl.)

Ganz, P. F., PhD Lond., MA Lond. & Oxon.  
 (Mod. Langs.)

#### JESUS COLLEGE

Founded in 1571 by Queen Elizabeth. Students in residence (1961-62), 271.  
 Telephone: Oxford 41818.

Principal—J. T. Christie, MA

#### Fellows

Hurst, C., MA DPhil, *Tutor in Phys.*

Griffith, J. G., MA, *Sr. Tutor, Tutor in Classics*

Woodward, L. A., PhD Lond., BSc MA, *Vice-*  
*Principal, Tutor in Chem.*

Thompson, E. C., MA, *Estates Bursar, Tutor in*  
*Maths*

Foster, I. L., MA Wales & Oxon., FSA, *Jesus*  
*Prof. of Celtic*

Whitley, Rev. D. E. H., MA, *Chaplain, Tutor in*  
*Theol.*

Young, G. T., BSc Birm., PhD Brit., MA,  
 FRIC, *Sec. to the Governing Body, Tutor in*  
*Chem.*

Howarth, W. D., MA, *Tutor in Mod. Langs.*  
 Varley, G. C., PhD Camb., MA Camb. & Oxon.,  
*Hope Prof. of Zool. (Entomol.)*  
 Hale, J. R., Jr. Dean, *Tutor in Mod. Hist.*  
 Dobson, E. J., BA Syst., MA DPhil, *Reader in Engl. Lang.*  
 Rees, D. A., MA DPhil, *Librarian, Tutor in Philos.*  
 Rogerson, A., MA, *Tutor in Law*  
 Paget, E., MA, *Domestic Bursar, Tutor in Geog.*  
 Walsh, J. D., PhD Camb., MA Camb. & Oxon.,  
*Dean, Tutor in Mod. Hist.*  
 Foster, C. D., MA, *Sr. Res. Fellow in Econ. & Orgn. of Transport*  
 Houghton, J. T., MA DPhil, FRMetS, *Tutor in Phys.*

Barlow, D., BLitt MA, *Tutor for Admissions, Tutor in Mod. Langs.*  
 Burrow, J. A., MA, *Tutor in Engl.*  
 David, Rev. F. J. T., *Superintending Fellow*  
 Lecturers  
 Alton, R. E., MC, MA (Engl.)  
 Baragwanath, L. E., BA Melb., BPhil MA (Econ.)  
 Williams, P. M., MA (Pol.)  
 Rushworth, G., BM MA (Physiol.)  
 Wallace-Hadrill, J. M., MA *Adms. & Econ. (Mod. Hist.)*  
 Bendley, C. J., BA Camb. & Oxon. (Maths.)  
 Harrison, A. J., BA (Econ.)

# KEBLE COLLEGE

Founded in 1868 as a memorial to the late Rev. John Keble, sometime prof. of poetry in the univ., and incorporated in 1870. Students in residence (1961-62), 334 Telephone Oxford 59201.

Warden—Rev. A. M. Farrer, MA DD

## Fellows

Parke, G. D., BSc MA DPhil, FRIC, *Sub-Warden, Tutor in Nat. Sci., Sr. Tutor*  
 Davidge, C. V., BCL MA, *Tutor in Jurispr. Bursar*  
 Hawkes, C. F. C., MA, FRAL, FBA, FSA, *Prof. of European Archaeol.*  
 Mitchell, B. G., MA, *Tutor in Philos.*  
 Stead, Rev. G. C., MA Camb. & Oxon., *Tutor in Theol., Chaplain*  
 Price, F. D., BLitt MA, FSA, FRHistS, *Tutor in Mod. Hist.*  
 Barrett, W. S., MA, *Tutor in Classics, Librarian*  
 Potts, D. C., MA DPhil, *Tutor in Mod. Langs.*  
 Stone, E., MA DPhil, *Tutor in Medieval Hist.*  
 Smith, C. G., MA, *Tutor in Geog.*

Shaw, D. F., MA DPhil, *Tutor in Phys.*  
 Campbell, A. E., MA, *Tutor in Mod. Hist.*  
 Carey, J., MA DPhil, *Tutor in Engl. Lang. & Lit., Dean*  
 Phillips, E. G., MA DPhil, *Tutor in Maths.*  
 Research Fellow  
 von Engel, A. H., MA DSc  
 Lecturers  
 Cuff, P. J., MA DPhil (Anc. Hist.)  
 Franklin, R. E., BSc PhD Lond., MA (Engin.)  
 Kissinger, U., BLitt MA (Pol.)  
 Ellis, W. A., MA (Econ.)  
 Green, R. F., MA DPhil (German)  
 Harris, R., MA DPhil (French Philol.)  
 Parkes, M. B., BLitt MA (Engl. Lang.)

# LADY MARGARET HALL

Founded in 1878 under a trust deed, and incorporated by royal charter in 1926.

Students in residence (1961-62), 269 Telephone Oxford 57214.

Principal—Lucy S. Sutherland, CBE, MA DLitt, FBA

## Fellows

Lee, Kathleen M., MA, *Vice-Principal, Tutor in Engl.*  
 Sutherland, Mrs. D. Rhoda, MA, *Tutor in French Philol.*  
 Kazale, Mrs. Martha, MA, *Tutor in Philos., Lydia Orlor Fellow*  
 Hubbard, Naomi D., MA DPhil, FRHistS, *Tutor in Hist., Sir Ernest Cassel Fellow*  
 Whiteman, E. Anne O., MA DPhil, FSA, FRHistS, *Tutor in Mod. Hist.*  
 Hicken, Winifred F., MA DPhil, *Tutor in Classics*  
 Agate, Joan, MA, *Treasurer, Secretary*  
 Crow, Mrs. Joan, MA, *Tutor in French Lit.*  
 Jeffery, Lilian H., MA Camb. & Oxon., DPhil, FSA, *Tutor in Anc. Hist.*  
 Stewart, Mrs. Alice M., MD Camb., MA, FRCP, *Reader in Soc. Med., Professorial Fellow*

Jennings, Hon. Mrs. Margaret A., MA DM, *Science Res. Fellow, Superintending Fellow*  
 Mackenzie, Elizabeth G. W., MA, *Tutor in Engl. Lit., Librarian*  
 Ord, Margery G., BSc PhD Lond., MA, *Tutor in Nat. Sci.*  
 O'Brien, Miss C. M., MA DPhil, *Tutor in Maths. & Theoret. Phys.*  
 Crowther, Mrs. Wilma B., MA, *Tutor in Zool.*  
 Bulbrink, Edith, DM Bonn, MA, FRSc, *Reader in Pharmacol., Professorial Fellow*  
 Pennington, Anne E., MA, *Tutor in Russian*  
 Lecturers  
 Ing, Mrs. Catherine M., MA DPhil (Engl. Lit.)  
 Keen, Patricia M., MA (Engl. Lang.)  
 Dick, Mrs. Cecilia R., MA (Mod. Hist.)  
 Hudson, Anne M., BA (Engl. Lang.)



## LINCOLN COLLEGE

Founded in 1447 by Richard Fleming, Bishop of Lincoln. Students in residence (1961-62), 305  
 Telephone: Oxford 42380.

Rector—W. F. Oakshott, Hon. LL.D. *St. And.*, MA, FSA

## Fellows

- Cox, H. H., MA, *Sub-Rector*, Tutor in *Philos.*,  
*Dean*  
 Richards, R. E., MA DPhil, FRSE, Tutor in *Nat. Sci.*  
 Henderson, P. D., MA, Tutor in *Econ.*  
 Robson, W. W., MA, Jr. Librarian, Tutor in  
*Engl. Lang. & Lit.*  
 Green, Rev. V. H. H., MA DD Camb & Oxon.,  
 FRHistS, Chaplain, Sr Librarian & Archivist,  
*Tutor in Mod. Hist.*  
 Abraham, E. P., MA DPhil, FRSE, *Professorial*  
*Fellow*  
 Laws, G. C., MA, Bursar  
 Simpson, A. W. B., MA, Tutor in *Jurispr.*  
 Owen, J. B., BSc N.Z., MA N.Z. & Oxon., DPhil,  
*Sr. Tutor*, Tutor in *Mod. Hist.*  
 Owen, J., MA DPhil, Tutor in *Phys.*  
 Whitton, D. F., BLitt MA, *Dean of Degrees*,  
*Tutor in Mod. Langs.*  
 Robertson, C. M., MA Camb. & Oxon., *Pro-*  
*fessorial Fellow*  
 Lowe, G., PhD Lond., MA  
 Wilson, N. G., MA, Tutor in *Classics*

## Supernumerary Fellows

- Wellisz, E. J., CBE, MA Hon. DMus, FBA  
 Ashmele, B., CBE, MC, BLitt MA, FBA

## Nuffield (Pencilian) Research Fellows

- Heatley, N. G., PhD Camb., MA Camb. & Oxon.  
 Sanders, A. G., MB BS Lond., MA DPhil

## Research Fellow

- White, J. W., MSc Syd.

## Other Lecturers

- Oppenheimer, Sir Michael B. G., Bt., BLitt MA  
 (Pol.)  
 Gray, D., MA N.Z. & Oxon. (Engl.)  
 Thomson, J. F., DFC, BA Lond., MA Camb. &  
 Oxon. (Philos.)  
 Leach, E. H., BSc MA (Phycol.)  
 Plamenatz, J. P., MA (Pol.)  
 Martin, A. F., MA (Geog.)  
 Burden, D. H., MA (Engl.)  
 McKay, G. W., MA (German)  
 Baker, Rev. J. A., BLitt MA (Theol.)  
 Beckett, P. H. T., MA DPhil (Agric.)  
 Fowler, G. T., MA (Anc. Hist.)  
 Lewis, K. R., MA (Bot.)  
 Ford, E. B., MA DSc (Biol.)  
 McMahon, J. F., LLB Camb., LL.M. Harv., BA  
 Camb. & Oxon., BLitt (Law)  
 Smart, P., BA (Econ.)  
 Sutherland, N. S., MA DPhil (Psychol.)  
 Brown, G. M., MA DPhil (Geol.)  
 Jones, E. W., MA (Forestry)

## MAGDALEN COLLEGE

Founded in 1456 by William of Waynflete, successively Headmaster of Winchester and Eton Colleges, Provost of Eton, and Bishop of Winchester, and sometime Lord High Chancellor of England. Students in residence (1961-62), 403. Telephone: Oxford 41781.

President—T. S. R. Boase, MC, Hon. LL.D. *St. And.* & *Meib.*,  
 Hon. DLitt Durh. & *R'dg.*, MA Hon. DCL, FBA

## Fellows

- Onions, C. T., CBE, Hon. LL.D. Lond., Hon.  
 LL.D. Birm., MA Lond. & Oxon., Hon. DLitt,  
 FBA, Hon. FRSL  
 McFarlane, K. B., MA, FSA, FRHistS, Tutor in  
*Med. Hist.*  
 Sutton, L. E., MA DPhil, FRSE, Lectr. in *Chem.*  
 Stevens, C. E., BLitt MA, Tutor in *Anc. Hist.*  
 Griffiths, J. H. E., OBE, MA DPhil, Lectr. in  
*Phys.*  
 Hardie, C. G., MA, Tutor in *Classics*  
 Morris, J. H. C., MA DCL, Lectr. in *Law*  
 Wills, L. J., CBE, MD Manc., Hon. ScD Dub.,  
 Hon. MD Brist., MA DM, FRCP, Nuffield  
*Prof. of Clin. Med.*  
 Sinclair, H. M., BSc MA DM, MRCP, Lectr. in  
*Physiol. & Biochem.*  
 Taylor, A. J. P., Hon. DCL New Br., MA, FBA,  
*Tutor in Mod. Hist.*  
 Cooke, C. A., LL.D. Manc., MA, *Estates Bursar*

- Ryle, G., MA, Waynflete Prof. of *Metaphys. Philos.*  
 Gill, A., CBE, MA Manc. & Oxon., Tutor in *Med.*  
*Langs.*  
 Kerr, N. R., BLitt MA, FBA, Vice-Pres., Librarian  
 Worswick, G. D. N., MA, Tutor in *Econ.*  
 Bennett, J. A. W., MA N.Z. & Oxon., DPhil,  
*Lectr. in Engl. Lang. & Lit.*  
 Lloyd, B. B., MA, Lectr. in *Physiol.*  
 Adams, Rev. A. W., MA Suff. & Oxon., BD,  
*Dean of Divinity*, Chaplain  
 Cross, A. R. N., MA DCL, Lectr. in *Law*  
 Stoye, J. W., MA DPhil, Tutor in *Mod. Hist.*  
 Leyser, K. J., MA, Tutor in *Med. Hist.*  
 Tite, K., MA, Tutor in *Pol.*  
 Warnock, G. J., MA, Tutor in *Philos.*  
 Darlington, C. D., PhD Lond., DSc Lond. & Oxon.,  
 MA, FRSE, *Sheridan Prof. of Bst.*  
 Treitel, G. H., BCL MA, Tutor in *Law*  
 Jones, E. R. H., DSc Manc., PhD Wales, MA,  
 FRSE, FRIC, Waynflete Prof. of *Chem.*

Jones, E. L., MA, Tutor in Engl. Lang. & Lit.,  
Sr. Deau of Arts  
Judd, B. R., MA DPhil  
Oldfield, R. C., MA Camb. & Oxon., FBPS, Prof.  
of Psychol.  
Rose, B. W. G., MusB Camb., MA Camb. & Oxon.,  
DMus, FRCO, Organist  
Grayson, C., MA, Serena Prof. of Italian Studies  
Gardner, P. L., MA, Tutor in Philos and Clerk  
to the Coll.  
Pusley, J. M. S., MA, Lectr. in German, Jr. Deau  
of Arts  
ter Hast, D., DySc Ley, MA St.And. & Oxon.,  
DSc, Lectr. in Phys.  
Hamilton, R. W., MA, FBA  
Stampert, J. G., MA DPhil  
Munz, W. R. A., MA DPhil  
Brown, S. G. Lander, CBE, MSc MB ChB  
Mar, Hon LLD St And., DULdge, MA,  
FRCP, FRS, Waynflete Prof. of Physiol.

Venanzi, L. M., DiplChem Kiel, DrChem  
Trieste, MA DPhil, Lectr. in Chem.  
Higman, G., MA DPhil, FRS, Waynflete Prof. of  
Pure Math.  
Lettler, J. S., BSc MA DPhil  
France, F., MA  
McMahon, C. W., MA, Tutor in Econ., Sr. Tutor  
King, A. S., BA  
Limes, M. E., MA DPhil  
Tyler, P., BLitt MA  
Huddy, J. P., BA  
Taylor, C. C. W., BA  
Lecturers  
Sutherland, N. S., MA DPhil (Psychol.)  
Clowes, F. A. L., MA DPhil (Bot.)  
Bischoff, J. E., MSc Birm., PhD Lond., MA  
(Econ.)  
Crawford, G. N. C., MA (Anat.)  
Harris, R., MA DPhil (French Philol.)  
Wolbourne, M., MA (Philos.)

# MERTON COLLEGE

Founded in 1264 by Walter de Merton, sometime Chancellor of England, and afterwards Bishop  
of Rochester. Students in residence (1961-62), 259. Telephone: Oxford 49651.

Warden (from July 1, 1963)—A. R. W. Harrison, CBE, MA

## Fellows

Levens, R. G. C., MA, Tutor in Classics, Deau  
Cooke, A. M., MA DM, FRCP  
Dyson, H. V. D., BLitt MA, Tutor in Engl. Lit.  
Hardy, Sir Alister C., MA DSc, FRS, Prof. of  
Zool. Field Studies  
Phillips, C. S. G., MA, Tutor in Chem.  
Jewkes, J., CBE, MCom Manc., MA, Prof. of  
Econ. Organization  
Highfield, J. R. L., MA DPhil, Tutor in Mod.  
Hist., Archivist, Librarian  
Watson, P. D., MA DPhil, Tutor in Maths.,  
Investments Bursar, Sub-Warden  
Parsons, D. S., MA DM, Tutor in Physiol.  
Wallace-Hadrell, J. M., MA Manc. & Oxon., Sr.  
Res. Fellow  
Roberts, J. M., MA DPhil, Tutor in Mod. Hist.,  
Sec. to the Housworth Trust  
Timbergen, N., DPhil Ley., MA, FRS  
Davis, R. H. C., MA, FSA, FRHistS, Tutor in  
Mod. Hist., Advants Tutor  
Barton, J. L., BCL MA, Tutor in Law  
Norman, R. O. C., BSc MA DPhil, Tutor in  
Chem., Principal of Postmasters  
Baker, J. M., MA DPhil, Tutor in Phys.  
Black, J., MA, Tutor in Econ., Sr. Tutor

Lucas, J. R., MA, Tutor in Philos.  
Coghill, N. H. K. A., MA, FRSL, Merton Prof.  
of Engl. Lit.  
Davis, N., MBE, MA N.Z. & Oxon., Merton Prof.  
of Engl. Lang. & Lit.  
Green, M., BA, Jr. Res. Fellow  
Thomas, W. E. S., BA, Jr. Res. Fellow  
Campbell, B. G., MA  
Fringle, J. W. S., MBE, ScD Camb., MA Camb.  
& Oxon., DSc, FRS, Linacre Prof. of Zool.  
Radda, G. K., BA, Jr. Res. Fellow  
Crossley, J. N., BA, Jr. Res. Fellow  
Gilbert, M. J., BA, Jr. Res. Fellow

## Other Lecturers

Pelczynski, Z. A., MA St.And. & Oxon., DPhil  
(Pol.)  
Paget, E., MA (Geog.)  
Potts, D. C., MA (French)  
Witt, D. C., MA (Engl.)  
Sutherland, N. S., MA DPhil (Psychol.)  
Macintosh, J. J., BPhil (Philos.)  
Rugg, A. G., MA (Engl. Lang.)  
Duck, D. A. T., MA DPhil (Anat.)  
Leggett, A. J., MA (Theoret. Phys.)  
MacCormack, G. D. (Law)

# NEW COLLEGE

Founded in 1379 by William of Wykeham, Bishop of Winchester and sometime Lord High  
Chancellor of England. Students in residence (1961-62), 401. Telephone: Oxford 48451.

Warden—Sir William G. Hayter, KCMG, MA

## Fellows

Henderson, H. L., OBE, MA, Emer. Fellow  
Leue, L. G. W., MA, Emer. Fellow

Croft, R. S., TD, DM, Emer. Fellow  
Cox, Sir Christopher W. M., KCMG, Hon. LLD  
H.K., MA

Yorke, E. C., MA Camb. & Oxon, Tutor  
 Plackett, H. H., BA Tor, MA, FRSE, *Exner. Fellow*  
 Price, H. H., Hon. LLD *St And*, Hon. DLitt  
*Dub.*, BSc MA, FBA, *Exner. Fellow*  
 Cecil, Lord David, CH, Hon. LittD Leeds, Hon.  
 DLitt Lond, Hon. DLitt Glas., Hon. LLD  
*St And & Leu.*, MA, FRSL, *Goldsmiths'*  
*Pr of. of Engl. Lit*  
 Steveloy, L. A. K., MA DSc, Tutor  
 Kononov, S., BLitt MA  
 Bell, H. E., MA Camb. & Oxon., FSA, Tutor,  
*Librarian*  
 Cooke, A. H., MBE, MA DPhil, Tutor  
 Butterworth, J. B., MA, *Bursar, Precentor*  
 Andrews, A., MBE, MA, FBA, *Wykeham Prof.*  
*of Anc. Hist*  
 Buxton, E. J. M., MA, *Sr Res. Fellow & Tutor*  
 Nicholas, H. G., MA  
 Carr, A. R. M., MA, Tutor, *Sub-Warden, Tutor*  
*for Administration*  
 Davies, K. G., MA Camb. & Oxon, Tutor  
 Thomas, J. M., MA DPhil, Tutor  
 de Ste Croix, G. E. M., BA Lond., MA, Tutor  
 Bayley, J. O., MA, Tutor  
 Quinton, A. M., MA, Tutor, *Secretary to Tutorial*  
*Office*  
 Milson, S. P. C., MA Camb. & Oxon., Tutor, *Dean*  
 Sandford, Sir Pollard H., KBE, CMG, MA  
 Ayar, A. J., MA, FBA, *Wykeham Prof. of Logic*  
 Cowan, J., MA Camb. & Oxon., Tutor, *Dean of Arts*  
 Bennett, Rev. G. V., PhD Camb., MA Camb. &  
 Oxon., DPhil, Tutor, *Dean of Div.*

Lumsden, D. J., MusB PhD Camb., MA Camb. &  
 Oxon., DPhil, Tutor  
 Dickens, P. G., MA DPhil, *Domestic Bursar*  
 Blackwell, D. E., PhD Camb., MA Camb. &  
 Oxon., *Seoulus Prof. of Astron.*  
 Wiggins, D. R. P., MA  
 Opie, R. G., MA *Adel & Oxon.*, BPhil  
 Widdicombe, J. G., BM MA DPhil  
 Inglaton, A. W., BSc PhD Lond., MA

#### Other Lecturers

Martin, A. F., MA  
 Pusey, H. K., MA  
 Bailey, A. S., BSc MA DPhil  
 Lucas, R. L., PhD Camb., MA  
 Tolken, C. R., MA  
 Pring-Mill, R. D. F., MA  
 Joll, J. B., MA  
 Fennell, J. L. I., PhD Camb., MA Camb. &  
 Oxon.  
 Davies, J. D., LLB Wales, BCL MA  
 Marshall, G., PhD Glas., MA *Manc. & Oxon.*  
 Wolf, W. P., MA DPhil  
 Griffith, T. G., MA Dub. & Oxon., BLitt  
 Wise, B., MA  
 Jenkins, Rev. D. E., MA  
 Brown, G. M., MA DPhil  
 Warburg, E. F., PhD Camb., MA  
 Treisman, M., MA DPhil  
 Payne, D. J., LLB Lond., MA  
 Hunnisett, R. F., MA DPhil  
 Harris, R., MA DPhil

#### ORIEL COLLEGE

Founded in 1326 by King Edward II. Students in residence (1961-62), 265.  
 Telephone: Oxford 41651.

Provost—K. C. Turpin, BLitt MA

#### Fellows

Hargreaves, E. L., PhD Lond., MA, Tutor, *Lectr.*  
*in Econ.*  
 Burton, R. W. B., MA, Tutor, *Lectr. in Classics*  
 Gough, J. W., MA, Tutor, *Lectr. in Mod. Hist.*,  
*Librarian*  
 Pantin, W. A., MA, FBA, FRHistS, Tutor, *Lectr.*  
*in Mod. Hist.*  
 Crow, A. D., BLitt MA, *Sr. Tutor, Lectr. in*  
*French, Vice-Provost*  
 Mair, J. C., CBE, MD Edin., Hon. LLD Qu.,  
 MA DM, FRCSed, FRCOG, *Nuffield Prof.*  
*of Obstet. & Gynecol.*  
 Seton-Watson, C. I. W., MC, MA, Tutor, *Lectr.*  
*in Pol.*  
 Robinson, R., PhD Cam., BLitt MA, Tutor,  
*Lectr. in Philos.*  
 Weddell, A. G. M., MD DSc Lond., MA, Tutor,  
*Lectr. in Physiol.*  
 Lambhick, H. T., CIE, MA, *Res. Fellow*  
 Brunt, P. A., MA, Tutor, *Lectr. in Anc. Hist.*,  
*Dean*

Ramsay, Rev. Canon I. T., MA Camb. & Oxon.,  
*Nollath Prof. of Philos. of Christian Relig.*  
 Sparks, Rev. H. F. D., MA DD, FBA, *Oriel Prof.*  
*of Interpretation of Holy Scripture*  
 Brown, B. R., MA DPhil, Tutor, *Lectr. in Chem.*,  
*Sub-Decan*  
 Bagnall-Wild, Brigadier R. E., CBE, MA,  
*Treasurer*  
 Sanders, J. H., BSc Lond., MA DPhil, Tutor &  
*Lectr. in Phys.*  
 Trevor-Roper, H. R., MA, *Regius Prof. of Mod.*  
*Hist*  
 Watson, W. A. J., MA DPhil, *Benn. Law Fellow*,  
*Tutor & Lectr. in Jurisp.*  
 Parry, W. E., MA DPhil, Tutor, *Lectr. in Theoret.*  
*Phys.*  
 Minto-Puustello, L., MA DPhil, FBA, *Professional*  
*Fellow*

#### Other Lecturers

Beckett, P. H. T., MA DPhil (*Agric.*)  
 Pacht, O. E., PhD Heidelberg, MA, FBA (*Hist. of*  
*Art*)

Quayle, J. R., MA (Boechus)  
 Lambert, R. St. J., PhD Camb., MA Camb. &  
 Oxon., FRS (Geol.)  
 Sutherland, N. S., MA DPhil (Psychol.)

Martin, A. F., MA (Geog.)  
 Walsh, D., MA DPhil (Engin. Sci.)  
 Luke, F. D., MA DPhil (German)  
 Miller, B. D. H., BLit MA (Engl. Lang.)

PENBROKE COLLEGE

Founded in 1624 by King James I. Students in residence (1961-62), 275  
 Telephone: Oxford 45271

Master—R. B. McCallum, AM Prim., MA

Fellows  
 Salt, L. E., MA, Emer. Fellow  
 Menzies, D. G. C., MA, Sr Tutor, Lectr. in  
 Philos.  
 Macintosh, Sir Robert R., MA DM, FRCSEd,  
 FFARCS, Nuffield Prof. of Anaesthetics  
 Wren, C. L., MA, Rawlinson & Bosworth Prof.  
 of Anglo-Saxon  
 Houston, R. F. V., BA LLB Dub., MA, Vice-  
 chanc., Tutor for Advancers, Lectr. in Jurisp.  
 Brodie, G. R. F., CBE, MA, Barrister  
 Bond, G. W., BA Dub., MA, Lectr. in Classics  
 Morris, Rev. C., MA, Chaplain, Lectr. in Mod.  
 Hist. & Theol.  
 Dighton, Rev. H. S., BLit MA, Supernumerary  
 Fellow  
 O'Brien, J. R. P., BSc MA, Lectr. in Nat. Sci.  
 Mackesy, P. G., MA, Lectr. in Mod. Hist.  
 Browning, I. R., MA, Librarian, Lectr. in Engl.  
 Lit. & Lang.  
 Willis, J., MA DPhil, Lectr. in Phys. Sci.  
 Baldeck, R. A. E., MA DPhil, FRSL, Lectr. in  
 Mod. Langs.  
 Whiting, M. C., BSc PhD Lond., MA, Lectr. in  
 Chem.  
 Wilkinson, F., BSc Staff., MA, Albright & Wilson  
 Res. Fellows in Chem.

Pelczynski, Z. A., MA St. And. & Oxon., DPhil,  
 Lectr. in Pol.  
 Haslamood, A. D., BSc (Econ) Lond., BPhil MA,  
 Lectr. in Econ.  
 Gray, D., MA N.Z. & Oxon., Dean, Lectr. in  
 Engl. Lang. & Lit.  
 Cuff, P. J., MA DPhil, Dep. Burm., Lectr. in  
 Anc. Hist.  
 Cowan, W. M., BSc Lond., BM MA DPhil,  
 Nuffield Res. Fellow in Med., Lectr. in Human  
 Anat.  
 Lightfoot, E., MSc Lond., PhD Leeds, MA, Lectr.  
 in Engin. Sci.

Other Lecturers

Paget, E., MA (Geog.)  
 Cane, C. A., MA DPhil (Maths.)  
 Burnett, H. W., BA (Law)  
 Rogers, J. M., BPhil MA (Philos.)  
 Lamport, E. J., BA (German)  
 Butt, V. S., BSc PhD Brast., MA (Bot.)  
 Goggin, P. L., DPhil (Inorg. Chem.)  
 Lowndes, D. J., MSc PhD Camb., MA Camb.  
 & Oxon., DPhil (Music)  
 Whithead, W. V., MA (Engl. Lang. & Lit.)  
 Reek, J. R., PhD Manc. (Theoret. Phys.)

THE QUEEN'S COLLEGE

Founded in 1340 by Robert de Eglesfield, chaplain to Philippa of Hainault, wife of  
 King Edward III. Students in residence (1961-62), 329. Telephone: Oxford 48411.

Provost—Sir Howard W. Florey, MA Camb. & Oxon., PhD Camb., MD Adm., Hon. LL.D. Edin.,  
 Hon. DSc Lond., Sherriff, Birn., Natl. & Tor. & A.N.U., Hon. DM. Leuven, BSc, FRS, FRCP

Fellows  
 Carter, C. W., BM MA, Tutor & Praelector in  
 Physiol.  
 Chilver, G. E. F., MA DPhil, Sr. Tutor & Praelec-  
 tor in Anc. Hist.  
 Prestwich, J. O., MA, FRHistS, Tutor &  
 Praelector in Mod. Hist., Librarian  
 Lunett, J. W., MA DPhil, FRS, Tutor Praelector  
 in Chem.  
 Macdonald, I., MA Glas. & Oxon., Tutor,  
 Praelector in French, Laming Resident Fellow  
 Harley, J. L., MA DPhil, Praelector in Bot.  
 Kilpatrick, Rev. G. D., BA Lond., MA DD, Dean  
 Ireland's Prof. of Rhetoric of Holy Scriptures

Honoré, A. M., BA S.A., BCL MA, Praelector in  
 Law  
 Bolton, J. D. P., MA, Tutor & Praelector in  
 Classics, Sec. of Tutorial Cttee.  
 Pelling, H. M., PhD Camb., MA Camb. & Oxon.,  
 Tutor & Praelector in Mod. Hist. & Pol.  
 Calder, W. M., MA, Tutor & Praelector in German,  
 Laming Resident Fellow  
 Moffatt, J., MA DPhil, Tutor & Praelector in  
 Phys., Camerarius  
 Cerny, J., PhD Prague, MA, FBA, Prof. of  
 Egyptol.  
 Temple, G. F. J., CBE, PhD DSc Lond., MA,  
 FRS, FRAcs, Safford Prof. of Nat. Philol.

McGuinness, B. F., BPhil MA, *Tutor & Prosector in Philos., Sec. of the Governing Body*  
 Chapman, W. G., MA *Aberd. & Oxon.*, *Tutor & Prosector in Spanish, Leaving Resident Fellow*  
 Jenkins, Rev. D. E., MA, *Prosector in Theol., Chaplain, Dean of Degrees*  
 Cohen, L. J., MA, *Tutor & Prosector in Philos.*  
 Parker, R. A. C., MA DPhil, *Tutor & Prosector in Mod. Hist.*  
 Marshall, G., MA *Manc. & Oxon.*, PhD *Glas.*, *Tutor & Prosector in Pol.*  
 Kaye, J. M., BCL MA, *Tutor, Prosector in Law*  
 Williams, A. A., OBE, MA *Comb. & Oxon.*, *Bursar*  
 Asherson, R. M., BSc MA DPhil, *Tutor, Prosector in Chem.*  
 Dalton, H. J. M., MA, FRCO, *Organist, Lectr. in Music, Dean, Magister Puerorum*

Stahl, E. L., MA *Cape T. & Oxon.*, PhD *Berne*, *Taylor Prof. of German Lang. & Lit.*  
 Richman, G. E., MA, Jr. *Res. Fellow*  
 Current, R. N., AB *Oberlin*, PhD *Wisc.*, MA, *H. V. Harnsworth Prof. of American Hist.*  
 Rundle, B. B., MA *N.Z.*, BPhil, Jr. *Res. Fellow*  
 Thompson, P. R., MA, Jr. *Res. Fellow*  
 Dunsdale, N. H., BA, *Prosector in Econ. & Ant. Dean*  
 Arthurs, A. M., MA, *Prosector in Math.*  
 Betts, C. J., BA, Jr. *Res. Fellow*  
 Supernumerary Fellows  
 Elton of Hedington, Rt. Hon. Lord, MA  
 House, H. W., DSO, MC, MA  
 Wright, T. E., MA  
 Parmoor of Fifeath, Rt. Hon. Lord, MA  
 Lecturer  
 Foote, I. P., MA (*Rumanian*)

## ST. ANNE'S COLLEGE

Founded in 1879 as the Society of Oxford Home-Students, became St. Anne's Society in 1942, and was incorporated by royal charter in 1952. Students in residence (1961-62), 298. *Telephones*: Oxford 57417.

Principal—Lady Ogilvie, Hon. LLD *Wisc.* (Pa.) & *Belf.*, MA

## Fellows

Ady, Miss Peter H., MA, *Tutor in Econ.*  
 Barnes, Mrs. Annie M., DPhil *Berns*, MA DPhil, *Tutor in French*  
 Bayley, Mrs. Jean I., MA, *Tutor in Lit. Hav.*  
 Bednarska, Mrs. Dorothy M., MA, *Tutor in Engl.*  
 Booth, Mrs. Marjorie B., BLitt MA, *Tutor in French*  
 Griffiths, Mary E., MA, *Tutor in Engl.*  
 Hart, Mrs. Jennifer M., MA, *Tutor in Mod. Hist.*  
 Hubbard, Margaret E., MA, *Tutor in Classics*  
 Kearsley, Mary J., MA DPhil, *Tutor in Math.*  
 Morrison, Christine L., MA, *Vice-Principal, Tutor in Engl.*

Reeves, Marjorie E., PhD *Lond.*, MA, FRHistS, *Tutor in Mod. Hist.*  
 Rossotti, Mrs. Hazel S., MA DPhil  
 Taylor, Mrs. Ann G., BM MA, *Lectr. in Physiol.*

## Supernumerary Fellows

Harvey, Ruth C., MA, *Lectr. in German*  
 Neame, Mrs. Elizabeth, MA

## Lecturers

Crossley, Mrs. Stella A., MA (*Zool.*)  
 Ingham, Mrs. Patricia T., MA (*Engl. Lang.*)  
 Lewis, Mrs. Ruth G., MA (*Mod. Hist.*)  
 Mitchell, Miss Barbara M., MA (*Anc. Hist.*)  
 Rutson, Elizabeth M., BLitt MA (*French*)  
 Taylor, Mrs. Eva G., BPhil MA

## ST. EDMUND HALL

Anciently associated with the name of St. Edmund of Abingdon, Archbishop of Canterbury, and founded about 1278. Students in residence (1961-62), 349. *Telephones*: Oxford 43574.

Principal—Rev. J. N. D. Kelly, Hon. DD *Glas.*, MA *Glas. & Oxon.*, DD

## Fellows

Ramsay, G. D., MA DPhil, FRHistS, *Vice-Principal, Tutor in Mod. Hist.*  
 Fargher, R., BLitt MA DPhil, *Tutor in French, Dean of Degrees*  
 Gullick, C. F. W. R., BLitt MA, *Sr. Tutor, Tutor in Geog.*  
 Midgley, Rev. E. G., MA BLitt, *Tutor in Engl., Dean*  
 Yardley, D. C. M., LLB *Birm.*, MA DPhil, *Tutor in Jurisp.*  
 Alton, R. E., MC, MA, *Bursar, Lectr. in Engl. Lit.*  
 Serica, G. W., MA DPhil, FAPS, *Tutor in Phys.*

Mitchell, R. B., MA *Melb. & Oxon.*, DPhil, *Tutor in Engl. Lang.*  
 Allen, G. R., MA, *Tutor in Soc. Studies*  
 Cowdrey, Rev. H. E. J., MA, *Tutor in Mod. Hist., Chaplain*  
 Barnes, H. G., PhD *Tubingen*, MA, *Tutor in German*  
 Hume-Rothery, W., OBE, PhD *Lond.*, Hon. DSc *Manc.*, MA DSc, FRS, *Isaac Wolfson Prof. of Metall.*  
 Pugh, R. B., MA, *Supernumerary Fellow*  
 Todd, J. D., MA DPhil, *Tutor in Engin.*  
 Gosling, J. C. B., BPhil MA, *Tutor in Philos.*

Rossetti, F. J. C., BSc MA DPhil, Tutor in Chem.  
Scargill, D. I., MA DPhil, Tutor in Geog.

Lecturers

Pusey, H. K., MA (Zool.)  
Phillips, E. G., MA DPhil (Maths.)  
Dunnott, M. A. E., MA (Philos.)

Footo, I. P., MA (Ruman)  
Follock, N. C., BA Cape T., BLitt MA (Geog.)  
Jones, C. A., MA DPhil (Spanish)  
Munkings, G. D., MA DPhil (Chem.)  
Bluest, N., BA (Phil)  
Rose, B. W. G., MusB Camb., MA Camb. &  
Oxon, DMus, FRCO (Music)

ST HILDA'S COLLEGE

Founded as St. Hilda's Hall in 1893, and incorporated by royal charter in 1926.

Students in residence (1961-62), 243 Telephone: Oxford 41821

Principal—Kathleen Major, Hon. DLitt Nat., BLitt MA, FSA, FRHistS

Fellows

Smalley, Beryl, PhD Manc., MA Manc. & Oxon,  
FRHistS, Vice-Principal, Tutor in Mod. Hist.  
Gardner, Helen L., Hon. DLitt Durh., MA, FBA,  
Professorial Fellow, Reader in Renaissance  
Engl. Lit.  
Crowe, Sibyl E., PhD Camb., MA Camb. & Oxon.,  
FRHistS, Tutor in Pol.  
Gerard Davis, Mrs. Mary I., MA DPhil, Tutor in  
Mod. Langs.  
Tumlinson, Muriel L., MA Camb. & Oxon., DPhil  
DSO, FRIC, Tutor in Nat. Sci.  
Prestwich, Mrs. Meane, MA, FRHistS, Tutor in  
Mod. Hist.  
Elliott, Anne H., MA, Tutor in Engl. Lit.  
Stann, Celia, MA, Tutor in Engl. Langs.  
Christie, Margaret I., PhD Glor. & Camb., BSc  
Glas., MA Camb. & Oxon., Tutor in Nat. Sci.

Rayner, Margaret E., MSc Lond., MA DPhil,  
Tutor in Maths  
Levick, Barbara M., MA DPhil, Librarian, Tutor  
in Classics  
Hill, Mrs. Bridget I., BSc(Econ) Lond., Treasurer

Lecturers

Fillenz, Marianne, MB ChB N.Z., MA DPhil  
(Physiol.)  
Imbach, H. M., BA W.Aust. (German)  
Ing, Mrs. Catherine M., MA DPhil (Engl. Lit.)  
Menn, Margaret, PhD Lond., MA (French)  
Oates, S., BA (Pure Math.)  
Paul, Mrs. Margaret E., BPhil MA (Econ.)  
Varley, Mrs. Margaret E., MA Camb. & Oxon.  
(Zool.)  
Wolfgram, Mrs. Eva M. S., MA DPhil (Philos.)

ST. HUGH'S COLLEGE

Founded as St. Hugh's Hall in 1886, and incorporated by royal charter in 1926.

Students in residence (1961-62), 229. Telephone: Oxford 57341.

Principal—Kathleen M. Kenyon, CBE, DLitt Lond., MA, FBA

Fellows

Headlam-Morley, Agnes, BLitt MA, Professorial  
Fellow, Montague Burton Prof. of Internat.  
Relations  
Gray, Dorothea H. F., OBE, MA, Tutor in  
Classics  
Adams, Midge G., MA DPhil, Sr. Res. Fellow  
Bosbridge, Ida W., MSc Lond., MA DPhil DSc,  
Vice-Principal, Tutor in Maths.  
Kemp, Betty, BA Manc., MA, Tutor in Hist.  
Smith, Hon. Honor M. V., DBE, BSc MD Lond.,  
MA, MRCP, Sr. Res. Fellow  
Graden, Pamela O. E., PhD Lond., MA, Tutor in  
Engl. Langs.  
Wells, Agnes F., BA Lond., MA, Treasurer  
Warnock, Mrs. Helen M., BPhil MA, Tutor in  
Philos.  
Wood, Mrs. Susan M., BLitt MA, Tutor in  
Medieval Hist.  
Sweeting, Marjorie M., PhD Camb., MA Camb.  
& Oxon., Deau, Tutor in Geog.

Trickett, Mabel R., MA, Tutor in Engl. Lit.  
Jacobs, Margaret, BLitt MA, Tutor, Cassel Lectr.  
in German  
Bleaney, Mrs. Betty I., MA, Tutor in Nat. Sci.  
(Phys.)  
Daniel, Vera J., BA PhD Lond., MA, Tutor in  
French  
Dickinson, Jocelyne G., MA DPhil, Librarian,  
Lectr. in Mod. Hist.  
Lunt, Mary R., MA DPhil, Asst. Tutor in Nat.  
Sci. (Biochem.)

Lecturers

Roaf, Mrs. Evelyn C. M., MA DPhil, Martinego  
Cavarezo Lectr. in Italian  
Cooper, Theodora C., MA Camb. & Oxon.  
(Econ.)  
Attyah, Mrs. Lily J. M., BA PhD Camb., MA  
Edin. & Oxon. (Maths.)  
Barber, Mrs. Monique L. T., MA (French)  
Crosley, Mrs. Stella A., MA (Zool.)

## ST. JOHN'S COLLEGE

Founded in 1555 by Sir Thomas White, alderman of the City of London

Students in residence (1961-62), 307 Telephone: Oxford 47671.

President—W. C. Costin, MC, OBE, Hon. LL.D Br Col, MA D Litt

## Fellows

Mabbott, J. D., CMG, Hon. MA Edu., BLitt MA,  
Sr. Tutor, Lectr. in Philos.

Sinde, E., MA, Tutor, Lectr. in Law

Thompson, H. W., CBE, PhD Berl, MA DSc,  
FRS, Tutor, Lectr. in Chem

Moore, W. G., DLitt Strar., MA, Tutor, Lectr. in  
Mod. Langs.

Roberts, C. H., MA, FBA, Professorial Fellow  
Sherwin-White, A. N., MA, FBA, Tutor, Lectr.  
in Anc. Hist.

Grice, H. P., MA, Lectr. in Philos.

Martin, A. F., MA

Blackman, G. E., BA Camb, MA, FRS, Sub-  
urban Prof of Rural Econ.

Holmes, W., MA DPhil, Tutor, Lectr. in Zool.

Colvin, H. M., MA, FRHistS, Tutor, Lectr. in  
Mod. Hist., Librarian

Russell, D. A. F. M., MA, Tutor, Lectr. in  
Classics, Sr. Dean of Arts

Garnard, N. A., MA, Bursar

Richardson, G. B., BSc Aberd., MA, Tutor, Lectr.  
in Econ.

Torrance, R. W., BSc BM MA, Tutor, Lectr. in  
Physiol.

Beeston, A. F. L., MA DPhil, Laudian Prof of  
Arabic

Elliott, R. J., MA DPhil, Tutor, Lectr. in Phys.

Thomas, K. V., MA, Lectr. in Mod. Hist.

Laure, M. V., OBE, MA Camb & Oxon., Prof  
of Forestry

James, I. M., MA DPhil, Sr. Res. Fellow, Lectr.  
in Maths.

Lushman, J. B., BLitt MA, Sr. Res. Fellow,  
Lectr. in Engl. Lit.

Hayes, W., DPhil, Lectr. in Phys.

Heaton, Rev. Canon E. W., MA Camb. & Oxon.,  
Reader & Lectr. in Theol.

Hurst, M. C., MA, Lectr. in Mod. Hist. & Pol.

Wade, H. W. R., LL.D Camb., MA Camb. &  
Oxon., DCL, Prof of Engl. Law

Hodgkin, L. H., BA, Jr. Res. Fellow

Howell, R., BA, Jr. Res. Fellow, Jr. Dean of Arts

Ridley, Sir Sidney, MA Camb & Oxon., Domestic  
Bursar

## Other Lecturers

Ward, A., MA (Engl. Lang.)

Powell, T. P. S., MA (Anat.)

## ST. PETER'S COLLEGE

Established in 1928 as a memorial to the late F. J. Chavasse, DD, formerly Bishop of Liverpool,  
admitted to the privileges of a 'new foundation' in 1947, and incorporated by royal charter in 1961.  
Students in residence (1961-62), 258 Telephone: Oxford 48436.

Master—Rev. J. P. Thornton-Duesbery, MA

## Fellows

Houghton, Rev. R. E. C., MA, Tutor in Engl. Lit.,  
Librarian

Smith, E. H. F., MA, Vice-Master, Sr. Tutor,  
Tutor in Mod. Hist.

Sutton, C. W. H., MA, Tutor in Philos., Dean of  
Degrees

Perman, R. C. D., MA, Tutor in Mod. Langs.,  
Bursar Lectr. in French

Venède, R. V., MA, Bursar

Cabot, C. A., MA DPhil, Tutor in Maths.

Woodgate, G. K., MA DPhil, Maitland Fellow &  
Tutor in Phys.

McKay, G. W., MA, Tutor in German

Watson, Rev. W. L. R., MA DPhil, Camb. & Oxon.,  
Chaplain, Lectr. in Theol.

Cooper, K. E., MB BS MSc Lond., MA, Tutor in  
Physiol.

Bailey, A. S., BSc MA DPhil, Tutor in Chem.

Emerton, Rev. J. A., MA, Professorial Fellow  
Lecturers

Burchfield, R. W., MA (Engl. Lang.)

Yardley, D. C. M., LL.B. Birm., MA DPhil (Jurispr.)

Cowdrey, Rev. H. E. J., MA (Mediev. Hist.)

Emery, F. V., BLitt MA (Geog.)

Rose, B. W. G., MusB Camb., MA Camb. &  
Oxon., DMus, FRCO (Music)

Cotrina, J. G., MA DPhil (Econ.)

Nichols, D., MA DPhil (Zool.)

Marples, V., MA (Equis. Sci.)

Adkins, A. W. H., MA DPhil (Classics)

Reading, H. G., MA (Geol.)

SOMERVILLE COLLEGE

Founded as Somerville Hall in 1879, and incorporated by royal charter in 1926  
Students in residence (1961-62), 271 Telephone: Oxford 57335.

Principal—Dame Janet M. Vaughan, DBE, Hon DSc Wales, MA DM, FRCP

Fellows

Henderson, Mrs. M. Isabel, MA, Vice-Principal,  
Tutor in *Anc. Hist.*  
Hartley, Mildred, MA Camb. & Oxon, Tutor in  
Classics  
Armstrong, Mrs. Annette E., MA DPhil, Tutor in  
French Lit., Dean of Degrees  
Hall, Lady (Laura M.), MA, Tutor in Econ.  
Foot, Mrs. Philippa R., MA, Tutor in Philol.,  
Alice Cobb Res. Fellow  
Banister, Rachel J., BSc Edin., MA, Tutor  
in Physiol.  
Syfret, Rosemary H., MA Camb. & Oxon., Tutor  
in Engl. Lit.  
Ramm, Agatha, MA Lond. & Oxon., FRHistS,  
Tutor in Mod. Hist.  
Cobbe, Anne F., MA DPhil, Tutor in Maths.  
Harvey, Barbara F., BLitt MA, Tutor in Mod.  
Hist.  
Proudfoot, Mrs. Mary, MBE, BLitt MA, Sec.,  
Dean, Lectr. in Pol.

Woolf, Rosemary E., BLitt MA, Tutor in Engl.  
Lang. & Modern Lit.

Professorial Fellows

Starkie, Emd M., DPhil, Paris, Hon. DLitt Exs.  
& Oxon., MA FRSL  
Hodgkin, Mrs. Dorothy M., PhD Camb., Hon.  
DSc Leeds & Manc., BSc MA, FR5

Pirie, Mrs. Antoinette, MA

Additional Fellow

Lascelles, Mary M., BLitt MA

Tutors and Lecturers

Turville-Petre, Mrs. Joan E., BLitt MA (Engl.  
Lang.)

Reaf, Mrs. Evelyn C. M., MA DPhil (Italian)

Richards, Mrs. Eva, BSc Lond (Chem.)

de Vilhiers, Lady (Evangeline), DBE, BLitt MA  
(Hist.)

Robinson, F. N. H., MA DPhil (Phys.)

Maudsley, R. H., BCL MA (Juris)

Crowther, Mrs. Wilma B., MA (Zool.)

TRINITY COLLEGE

Founded in 1554-55 by Sir Thomas Pope. Students in residence (1961-62), 236.  
Telephone: Oxford 41801.

President—A. L. P. Norrington, MA

Fellows

Lambert, J. D., MA DSc, Tutor, Lectr. in Nat.  
Sci.  
MacLagan, M., MA, FSA, Lectr. in Mod. Hist.,  
Vice-President, Sr. Tutor  
Phillips, C. G., BSc MA DM, MRCP, Tutor,  
Lectr. in Physiol.  
Holliday, A. J., MA, Tutor & Lectr. in *Anc.*  
*Hist.*  
Fletcher, R. A., DSc, MA DPhil, Domestic  
Surgeon  
Woods, D. D., PhD Camb., MA Camb. & Oxon.,  
FRS, Inaug. Prof. of Chem. Microbiol.  
Cooper, J. P., MA, Lectr. in Mod. Hist., Laboratory  
Barnett, P. J., MA, Lectr. in Mod. Langs.  
Krebs, Sir Hans A., MD Hamburg, Hon. DSc  
Chem., Sherrif & Lond., Hon. MD Freiburg, Hon.  
LLD Glas., MA Camb. & Oxon., FRS,  
Whitley Prof. of Biochem.  
Wright, J. F., MA, Lectr. in Econ., Exeter Barrow  
Wind, E., DPhil Hamburg, MA, Prof. of the Hist.  
of Art  
Lammon, E. J., MA, Lectr. in Philol.

Reid, T. B. W., LLD Dub., LdL. Montpellier,  
MA Dub., Manc. & Oxon., Prof. of the  
Romance Langs.

Raven, D. S., BLitt MA, Lectr. in Classics, Dean

Houlden, Rev. J. L., MA, Chaplain, Lectr.

Kelly, J. M. D., BLitt MA, Lectr. in Law  
Hamersley, J. M., MA DSc, Res. Fellow, Lectr.  
in Maths.

Other Lecturers

Powell, T. P. S., MA (Anat.)

Smith, C. G., MA (Geog.)

Davies, W. T., PhD Camb., MA Camb. & Oxon.  
(Phys.)

Bruce, P. C. J., MA DPhil (Zool.)

Glazebrook, P. R., MA (Law)

Tucker, R. G., MA DPhil (Biochem.)

Burden, D. H., MA (Engl. Lang. & Lit.)

Miller, F. G. B., BA DPhil (Anc. Hist.)

Rose, S., MA DPhil (Pol.)

Wise, B., MA Camb. & Oxon. (Biol.)

Bealey, A. S., BSc MA DPhil (Inorg. Chem.)

Green, R. F., MA DPhil (Mod. Langs.)

Deutscher, M. J., MA (Philol.)



## UNIVERSITY COLLEGE

Connected by ancient tradition with the name of Alfred the Great, but first historically endowed in 1249 by William of Durham, said to have been Rector of Wearmouth and Archdeacon of Durham. Students in residence (1961-62), 297. Telephone: Oxford 41661.

Master—A. L. Goodhart, Hon. KBE, QC, LL.D. Camb., Hon. LL.D. Edin., Belf., Yale, Calif., Cal., Lond., N.Y. & Dal., DCL, FBA.

## Fellows

Bowen, E. J., MA DSc, FRS, *Professor in Chem., Registrar*  
 Wells, A. F., OBE, MA, *Professor in Classics, Dean*  
 Cox, A. D. M., MA, *Professor in Mod. Hist., Sr. Tutor*  
 Cunningham, D. J. C., MB ChB Edin., MA, *Radclyffe Med. Fellow*  
 Bayley, P. C., MA, *Professor in Engl. Lit., Tutor for Admissions*  
 Strawnson, P. F., MA, FBA, *Professor in Philos., Dean of Degrees*  
 Cawthwell, G. L., MA N.Z. & Oxon., *Professor in Anc. Hist., Librarian*  
 Wager, L. R., ScD Camb., MA Camb. & Oxon., FRS, FGS, *Prof. of Geol.*  
 Hart, H. L. A., MA, *Prof. of Jurisp.*  
 Parker, Rev. T. M., MA DD, FRHistS, *Chaplain, Professor in Theol. & Mod. Hist.*  
 Berman, R., MA Camb. & Oxon., DPhil, *Professor in Phys.*  
 Guest, A. G., MA, *Professor in Jurisp., Jr. Dean, Camerarius*

Shock, M., MA, *Weir Fellow, Professor in Pol., Estates Bureau*  
 Firth, A. E., MA, *Theodorus Fellows, Professor in Mod. Hist., Secretary*  
 Hawkes, D., MA DPhil, *Prof. of Chinese*  
 Stout, D. K., MA, *Mynars Fellows, Professor in Econ.*  
 Campbell, J. D. E., PhD Camb., MA Camb. & Oxon., DPhil, *Weir Fellow, Professor in Econ.*  
 Hoffmann, L. H., BCL MA, *Stowell Civil Law Fellow*  
 Screaton, G. R., MA PhD Camb., *Professor in Maths.*  
 Other Lecturers  
 Ford, E. B., MA DSc, FRS (Zool.)  
 Sandford, K. S., TD, MA DPhil DSc (Geol.)  
 Beckinsale, R. P., MA Lond. & Oxon., DPhil, FRHistS (Geog.)  
 Schenk, H. G. A. V., DrJur Prague, MA DPhil (Mod. Hist.)  
 Tolson, C. R., MA (Engl. Lang.)  
 Portes, R., BM MA  
 Sanders, P. G. H., MA DPhil (Phys.)

## WADHAM COLLEGE

Founded in 1612 by Nicholas Wadham and his wife Dorothy. Students in residence (1961-62), 325. Telephone: Oxford 42564.

Warden—Sir C. Maurice Bowra, Hon. LittD Dub. & Wales, Hon. LL.D. St. And., Hon. DLitt. Hull, Hon. DUParis & Aix-Marseille, MA DLitt, FBA.

## Fellows

Thompson, J. H. C., MA DPhil, *Tutor in Maths., Sub-Warden, Estates Bureau, Keeper of the Garden*  
 Westrup, Sir J. A., BMus MA Hon. DMus, FBA, *Heath Prof. of Music*  
 Crambo, I. M., MA, *Tutor in Philos., Librarian, Weir Fellow*  
 Thompson, A. F., MA, *Tutor in Mod. Hist., Sr. Tutor*  
 Carter, P. B., BCL MA, *Tutor in Law, Wells Fellow*  
 Stone, L., MA, *Lectr. in Mod. Hist., Keeper of the Archives*  
 Forrest, W. G. G., MA, *Lectr. in Anc. Hist., Dean of Degrees*  
 Coulson, C. A., PhD Camb., DSc St. And., MA Camb. & Oxon., FRS, FIP, *Rouse Ball Prof. of Maths.*

Stanton, T. C. W., MA, *Lectr. in Classics, Dean*  
 Williams, R. J. P., MA DPhil, *Lectr. in Chem.*  
 Stewart, D. M., MA, *Lectr. in Mod. Langs.*  
 Bleaney, B., MA DPhil, FRS, *Dr. Lee's Prof. of Exper. Phys.*  
 McLeod, J. B., MA DPhil, *Lectr. in Pure Maths.*  
 Donaldson, C. I. E., BA, *Lectr. in Engl.*  
 Edmunds, D. T., MA DPhil, *Lectr. in Phys.*  
 Knowles, J. R., BA, *Lectr. in Chem., Tate and Lyle Fellows*  
 Ishag, E., MA, *Lectr. in Econ.*

## Other Lecturers

Clegg, H. A., MA (Pol.)  
 Ward, A., MA (Engl. Lang.)  
 Lewis, P. S., MA (Mod. Hist.)  
 Cullity, M. C., BCL (Law)  
 Dyer, D. G., MA (German)  
 Rogers, J. M., BPhil MA (Philos.)

\* (from Aug. 1963)—Sir John Maud, GCB, CBE, AB Harv., Hon. LL.D. Rand, MA

WORCESTER COLLEGE

Established in 1283 as a school for Benedictine monks under the name of Gloucester College, and incorporated under its present name in 1714. Students in residence (1961-62), 323 Telephone: Oxford 47251.

Provost—Rt. Hon. Lord Franks of Headington, GCMG, KCB, CBE, Hon. DList *Hull*, MA Hon. DCL

Fellows

Bryan-Brown, A. N., MA, *Vice-Provost*, Sr. Tutor, *Lectr. in Classics*  
Brown, A. B., BCL, MA, *Estates Bursar*, Sr. Tutor, *Lectr. in Law*  
Mitchell, D., MA, Tutor, *Lectr. in Philos*  
Trustin, J. A., MD Barcelona, Hon. DSc *Bogard*, Hon. MD *Buenos Aires & Rio de Janeiro*, MA Hon. DSc, FRCS, Hon. FRCS(Ed), FRPS Glas, *Nuffield Prof. of Orthop. Surg.*  
Pitt, H. G., MA, Dean, Tutor, *Lectr. in Mod. Hist.*  
Dawes, G. S., BSc MA DM, *Supernumerary Fellow*  
Sayce, R. A., MA DPhil, *Librarian*, Tutor, *Lectr. in Mod. Langs.*  
Walker, J. M., BSc MA DM, Tutor & *Lectr. in Physiol.*  
Wernham, R. B., MA, FRHistS, *Prof. of Mod. Hist.*  
Palmer, L. R., BA Wales, DrPhil *Vitruvius*, PhD Comb., MA, *Prof. of Compar. Philos.*  
Price, F. V., BSc MA DPhil, Tutor, *Lectr. in Nat. Sci.*  
Campbell, J., MA, Tutor, *Lectr. in Mod. Hist.*

Ricks, C. B., BLitt MA, Tutor, *Lectr. in Engl. Lit.*  
Danby, C. J., BSc MA DPhil, Tutor, *Lectr. in Chem.*  
Gill, E. W., MA DPhil, *Albright & Watson Res. Fellow*  
Graham, Rev. A. A. K., MA, *Chaplain*, Dean of *Degrees*, Tutor, *Lectr. in Theol.*  
Reynolds, F. M. B., BCL MA, Tutor, *Lectr. in Law*  
Hinton, J. M., MA *St. And. & Cray*, Tutor, *Lectr. in Philos.*  
Fredericksen, M. W., MA, Tutor for *Admissions*, Tutor, *Lectr. in Anc. Hist.*  
Franklin, R. E., BSc PhD Lond., MA, Tutor, *Lectr. in Eugen.*  
Corney, A. L. S., MA PhD Comb., *Lectr. in Maths.*  
Robertson, I. G., MA, *Professorial Fellow*  
Vainoy, J. E., MA, *Lectr. in Econ. Lecturers*  
Kinsinger, U., BLitt MA (Pol.)  
Evans, D. A. H., MA (Engl. Lang.)  
Lampert, F. J., BA (German)  
Rubbra, C. E., CBE, Hon. DMus *Durh.*, Hon. LLD *Leic.*, MA (Music)

New Foundations

ST. ANTONY'S COLLEGE

Founded by the gift of the late M. Antonin Bease, of Aden, and admitted to the privileges of a 'new foundation' in 1950. The college places particular emphasis on graduate studies in modern subjects and admits a high proportion of students from abroad. Students in residence (1961-62), 65 Telephone: Oxford 59651.

Warden—F. W. D. Deakin, DSO, MA

Official Fellows

Joll, J. B., MA, *Sub-Warden*  
Hasley, P. C., OBE, MA, *Bursar*  
Footman, D. J., CMG, MC, MA  
Hudson, G. F., MA  
Rose, S., MA DPhil, Sr. Tutor, *Dean of Degrees*, *Leverhulms Fellow in Far East Studies*  
Hourani, A. H., MA  
Storry, G. R., MA, *Leverhulms Fellow in Far East Studies*, *Lectr.*  
Hayward, H. M., MA

Professorial Fellows

Kirkwood, K., MA, *Rhodes Prof. of Race Relations*  
Jackson, E. F., BCom *Birm.*, MA, *Dir., Inst. of Econ. and Stats.*

Research Fellows

Iyer, R. N., MA, *Agatha Harrison Res. Fellow and Lectr.*

Laard, D. E. T., BA  
Zeldin, T., MA DPhil  
Campbell, J. K., MA DPhil  
Shehab, F., MA DPhil  
Kotkov, G., MA  
Bowman, G., MA  
Adley, W. A. C., MA  
Willets, H. T., MA  
Loebhardt, F. A., BLitt MA DPhil  
Marini, V.  
Driver, J. E. S., MA  
Vivarelli, R.  
Hingley, R. F., MA  
Cunningham, A. B.  
Dedyer, V., MA  
Lewis, G. L., MA DPhil  
Nicholls, A. J., BPhil MA  
Shukman, H., DPhil  
Swenup, S.  
Florescu, R. R. N. A. R., MA

Marquand, D. I., MA  
Husain, I., BA  
Jones, D. M., MA Camb & Oxon.

Krishna, G., MA DPhil  
Matthews, W. H. M., DPhil  
Rich, N., BA

## NUFFIELD COLLEGE

Founded in 1937 by the Viscount Nuffield 'to encourage postgraduate research especially but not exclusively in the field of social studies and especially by making easier the co-operation of academic and non-academic persons', and incorporated by royal charter in 1958. Students in residence (1961-1962), 35 Telephone: Oxford 48014

Warden—D. N. Chester, CBE, MA Manc & Oxon.

## Fellows

Perkins, Margery F., CBE, Hon. LLD St. And.,  
Hon. DLitt St. Lou, MA, FBA, *Official Fellow*  
Frankel, S. H., PhD DSc(Econ) Lond., MA *Resid*  
& *Oxon*, Prof. of *Comparative Econ Affairs*  
Andrews, P. W. S., BSc(Econ) Lond., MA,  
*Official Fellow*  
MacDougall, Sir Donald, CBE, MA, *Official*  
*Fellow, Burnar*  
Clegg, H. A., MA, *Official Fellow*  
Keith-Lucas, B., MA Camb & Oxon., *Faculty*  
*Fellow, Domestic Burnar*  
Seton, F., MA DPhil, *Official Fellow*  
Plamenetz, J. P., MA, FBA, *Official Fellow*  
Butler, D. E., MA DPhil, *Official Fellow, Sr.*  
*Tutor, Dean*  
Little, I. M. D., AFC, MA DPhil, *Official Fellow,*  
*Burnar*  
Hartwell, R. M., MA Syd. & Oxon., DPhil, *Pro-*  
*fessorial Fellow, Librarian*  
Robinson, F. N. H., MA DPhil, *Faculty Fellow*  
Madden, A. F., BLitt MA DPhil, FRHistS,  
*Professorial Fellow, Dean of Degrees*  
Williams, P. M., MA, *Official Fellow*  
Katzinger, U., BLitt MA, *Official Fellow*  
Munby, D. L., MA, *Professorial Fellow*  
Walker, N. D., PhD Econ., MA, *Professorial*  
*Fellow*  
Gorman, W. M., MA Dub & Oxon., Prof. of  
*Econ.*  
Floud, Mrs Jean, BSc(Econ) Lond., *Official*  
*Fellow*

Halsey, A. H., BSc(Econ) PhD Lond., *Faculty*  
*Fellow*

## Visiting Fellows

Powden, Lord, KCB, KBE, BA Camb.  
Woodhouse, Hon. C. M., DSO, OBE, MA, FRSL  
Carron, Sir W. J., MA  
Callaghan, L. J., MA  
McLachlan, D. H., OBE, BA  
Hall, Sir Robert L., KCMG, CB, MA  
Stephens, F. J., MA Camb.  
Cooper, J.  
Henth, Rt. Hon. E. R. G., MBE, MA  
Marshall, H., CBE, BSc(Econ) PhD Lond.

## Research Fellows

Fox, A., MA  
Harrison, M., BA Manc., DPhil  
McCarthy, W. E. J., BA  
Burnbaum, N., PhD Harv., MA  
Shapiro, D. M., MA BPhil  
Corina, J. G., MA DPhil  
MacIntyre, A., MA Manc. & Oxon.  
Packman, Jean W., MA Camb., Gwynn Gibson  
*Res. Fellow*  
Golday, D. B., BA Camb., DPhil  
Klein, Josephine, BA Lond., PhD Burm.  
Vile, M. J. C., BSc(Econ) PhD Lond.  
Rayner, A. C., BA MSocSc Burm.  
Watson, J. H. A., CMG, MA Camb., Gwynn  
Gibson *Res. Fellow*

## Chaplain

Lee, Rev. R. S., MA Syd & Oxon., BLitt DPhil

## ST. CATHERINE'S COLLEGE

Founded by the University in 1962 to replace the former St. Catherine's Society, the name adopted in 1930 by the former Delegacy of Non-Collegiate Students (founded 1868). Students in residence (1961-62), 419. Telephone: Oxford 49547.

Master—A. L. C. Bullock, MA

## Fellows

Hoswood, F. C., MA, *Dean and Tutor in Engl.*  
Knapp, W. F., MA, *Sr Tutor and Tutor in Pol.*  
Siniopoulos, J. C., BPhil MA, *Tutor in Philos.*  
Holmes, G. A., PhD Camb., MA Camb. & Oxon.,  
*Librarian and Tutor in Mod. Hist.*  
Brewer, F. M., MBE, PhD Camb., BSc MA, FRIC,  
*Tutor in Chem*  
Shaw, P. F. D., MA DPhil, *Tutor in Phys.*

Davies, J. D., LLB Wales, BCL MA, *Asst. Dean*  
*and Tutor in Law*  
Horgan, A. D., MA, *Tutor in Engl.*  
Dickson, P. G. M., MA, *Dean of Degrees, Tutor*  
*in Mod. Hist.*  
Baragwanath, L. E., BA Manc., BPhil MA, *Tutor*  
*in Econ.*  
Stocken, L. A., BSc Lond., MA DPhil, FRIC,  
*Tutor in Biochem.*

Taylor, A. B., MA DPhil, Tutor in Maths.  
Wenden, D. J., MC, MA, *Bursar*  
Martin, J. W., PhD Camb., MA Camb. & Oxon.,  
DPhil, *Goldsmiths' Company Fellow and*  
*Tutor in Metall.*  
Robinson, F. N. H., MA Camb. & Oxon., DPhil,  
*Mellard Fellow and Tutor in Phys.*  
Lee, Rev. R. S., MA Syd. & Oxon., BLitt DPhil,  
*Chaplain*  
Gowers, J. L., MB BS Lond., MA DPhil, *Fellow*  
*by Special Election*  
Jones, F. B., PhD Camb., MA Camb. & Oxon.,  
*Central Electricity Generating Bd Res*  
*Fellow in Phys.*  
Smith, E. B., BSc PhD Lond., MA, Tutor in Chem  
Atiyah, M. F., PhD Camb., MA Camb. & Oxon.,  
FRS, *Professional Fellow*  
Lancaster, J., MA, *Professional Fellow*

Schultz, D. L., DPhil, Tutor in Engin.  
Mace, H., MSc Dab., Dring Vienna, MA, *Pro-*  
*fessional Fellow*  
Walter, R. R., DrPhil Berl., MA, FBA, *Pro-*  
*fessional Fellow*  
Tolley, B. R., MA Well., BA, Philip Spence  
*Fellow and Tutor in French*  
Hope, D. R., BSc MA DPhil, *Res. Fellow in*  
*Biochem. Pharm.*  
Munster, W. R. A., BA, *Res. Fellow in Psychol. and*  
*Physiol.*  
Thornley, J. H. M., BA, *Res. Fellow in Phys.*  
  
Lecturers  
Houston, J. M., MA Edin. & Oxon., BSc DPhil  
(Geog.)  
Cowan, J., MA Camb. & Oxon. (German)

# LINACRE HOUSE

Established 1962 by the University as a Society for men and women graduates reading for advanced degrees and diplomas of the University in all subjects. Telephone: Oxford 43326.

Principal—J. B. Bamforth, MA

Dean  
Cecil, R., DFC, MA DPhil  
  
Senior Members  
Altmann, S. L., PhD Lond., MA, U. Lectr. in  
*Theory of Metals*  
Bartley, W., BSc PhD Sheff., MA, U. Demr. in  
*Biochem.*  
Banister, Rachel J., DSc Edin., MA, U. Demr. in  
*Physiol.*  
Bennett, G., MA, Sr. Lectr. in Commonwealth  
*Hist.*  
Berlin, Sir Isaiah, CBE, MA, FBA, *Chichele Prof.*  
*of Soc. & Pol. Theory.*  
Blaschko, H. K. F., PhD Camb., MD Fresh., MA,  
FRS, *Sr. Res. Officer in Pharmacol.*  
Bullock, A. L. C., MA, *Master of St. Catherine's*  
*College*  
Davies, C. C., BA Wales, PhD Camb., MA,  
FRHistS, *Reader in Indian Hist.*

Fox, L., MA DPhil DSc, *Dir. of Computing Lab*  
Ganz, P. F., PhD Lond., MA Lond. & Oxon.,  
*Reader in German*  
Halsall, T. G., MSc PhD Mans., MA, Sr. Res.  
*Officer in Org. Chem.*  
Hicks, J. R., DSc(Econ) Lond., BLitt MA, FBA,  
*Drummond Prof. of Pol. Econ.*  
Hicks, Mrs Ursula K., MA, U. Lectr. in Pub  
*Finance*  
Hodgkin, Mrs Dorothy M., PhD Camb., Hon.  
DSc Lond., BSc MA, FRS, *Isaac Walton*  
*Prof. of Royal Soc.*  
Ryle, G., MA, *Waynflete Prof. of Metaphys.*  
*Philos.*  
Tayfel, H., PhD Lond., MA Lond. & Oxon., Tutor  
*in Psychol., Dept. of Soc. and Admin. Studies*  
Thompson, J. H. C., MA DPhil, *Fellow of*  
*Wadham Coll.*  
Woods, D. D., PhD Camb., MA Camb. & Oxon.,  
FRS

# Permanent Private Halls

## CAMPION HALL

Established 1896 for members of the Society of Jesus only, and granted present status in 1928.  
Students in residence (1961-62), 43. Telephone: Oxford 41342.

Master—Rev. H. D. Henshall, MA

Robney, Rev. P. H., MA, *Bursar*  
  
Lecturers and Tutors  
FitzGibbon, Rev. B., MA, Tutor (Mod. Hist.),  
*Chaplain, Librarian*

Stephenson, Rev. A. A. P., MA, Tutor (Theol.)  
Turner, Rev. V. G., MA, Sr. Tutor, Tutor  
(Philos.), *Dean of Degrees*

## GREYHRIARS

Established in 1920, and granted its present status in 1957. It now receives undergraduates for tuition in any school, giving priority of acceptance to student members of all branches of the Franciscan Order. Students in residence (1961-62), 14. Telephone: Oxford 43694.

Warden—Very Rev P. E. L. Pasco, MA DMus

Tutor: O'Neill, Rev. E. J., MA

## MANSFIELD COLLEGE

Founded in 1886 to provide 'a Free Church faculty in theology in Oxford', and a college for the training of dissenting ministers, chiefly but not exclusively of the Congregationalist denomination, and granted its present status in 1955. The college now receives undergraduates for tuition for the BA degree, and graduates, not necessarily of Oxford, for training in theology. Students in residence (1961-62), 43. Telephone: Oxford 48571.

Principal—Rev. J. Marsh, Hon. DD Edw., MA Edm. & Oxon, DPhil

## Tutors

Card, Rev. G. B., Hon. DD Montr., MA DPhil,

Sykes, D. A., MA

## Sr. Tutor

Wall, S. de R., MA

Parkes, M. B., BLitt MA

Yoxlee, Rev. B. A., CBE, BA PhD Lond., BLitt

Sherman, Rev. F. E., AM PhD Chic.

MA, FRP&S, Librarian, Dean of Degrees

## REGENT'S PARK COLLEGE

Originally founded in 1810 as the 'Baptist Academical Institution in Stepney', established in Oxford between 1927 and 1940, and granted its present status in 1957. The college admits theological students and others wishing to read either for the BA degree or for research degrees. Students in residence (1961-62), 47. Telephone: Oxford 59887.

Principal—Rev. G. H. Davies, Hon. DD Glas., BD Water, MA Wales & Oxon., BLitt

Tutors: Argyle, Rev. A. W., BD MA, Dean, Angus Lectr.;

Pearce, Rev. G. J. M., MA Burn & Oxon, PhD Aberd., Librarian

## ST. BENET'S HALL

Established 1897 for members of the English Benedictine Abbey of Ampleforth, Yorkshire only, and granted present status in 1918. Students in residence (1961-62), 16. Telephone: Oxford 55006.

Master—Rev. F. G. Sitwell, MA

## GENERAL INFORMATION

[See below, p. 1276, under 'Publications', for pamphlets giving information about admission, residence, entrance scholarships, expenses, exams., degrees, research, etc.]

There is evidence that there existed in Oxford in the early 12th cent. schs. which by the end of that cent. had developed into a univ., a devel. perhaps helped by the fact that about the yr. 1167 Engl. students were prevented from attending the Univ. of Paris. By about 1200 there were a no. of masters lecturing on various subjs., incl. the recently recovered works of Aristotle, and in 1214 the univ. received its first recorded recognition as a body in a grant by the papal legate of certain privileges incl. reduction of the rents it paid. In the 13th cent. the coming of the friars, notably the dominicans and franciscans, strengthened the univ., especially in the theol. fac. In the same cent. the 3 first

colle. (University, Balliol and Merton) were endowed, and 12 more were founded between 1300 and 1355. During the middle ages, however, the colle. were more or less reserved for grad. fellows (as All Souls still is), and the great majority of undergrads and grads lived in a large no. of academic 'halls', or hostels, scattered about the town. The univ. at first had no bldgs. of its own, but made use of hired lecture rooms or of churches, especially St. Mary's church, until, in the 15th cent., the div. sch. was built. From the 15th cent. onwards the position of the univ. was strengthened by a succession of charters from the crown, but during the Reformation it suffered from the suppression

of the monastic colls. In 1571 the univ. was incorporated by act of parliament, and much reorgan. followed; in particular, the undergrads. now came to be included in the colls. Professorships were first endowed in the early 16th cent., and increased notably in the early 17th cent. The important code of statutes introduced in 1536 by Archbishop Laud, chancellor of the univ., remained in force, with certain modifications, for about 150 yrs. During the civil war the univ. supported the king, who made Oxford his headquarters, and parliament met there. The later 17th cent. saw an increase of sci. studies at Oxford; and towards the end of the 18th cent. the standard of studies rose as written exams gradually took the place of oral exams. The constitution was revised, as a result of the work of royal commissions, in 1854 and in 1877; coll. statutes were re-made and studies reorganized, and the professoriate was increased and re-endowed. In 1871 religious tests were abolished, and the MA degree was thrown open to non-conformists; and since 1920 women have been admitted to membership of the univ. under the same conditions as men. As a result of the work of a further royal commission, the existing constitutional arrangements were adapted in 1923 to meet the needs of the times, one result being that the univ. from then onward received an annual Treasury grant.

**CONSTITUTION.** The central policy-forming and exec. body in the univ. is the hebdomadal council, comprising the chancellor (a non-resident member, elected for life by convocation), the vice-chancellor (a coll. head nominated by the chancellor annually, usually holding office for 2 yrs., and *de facto* chairman of the hebdomadal council), the immediate ex-vice-chancellor (for 1 yr. after the expiry of his term of office) or one of the pro-vice-chancellors who has not held the office of vice-chancellor, the 4 proctors (disciplinary officers, elected annually by men's colls. in rotation), the assessors (elected annually by other socs. in rotation) and 18 members elected by congregation (see below).

Other considerable powers and responsibilities are held by the *general board of the facs.*, which comprises the vice-chancellor, the proctors, the rep. of the women's colls. and reps. of the hebdomadal council, the curators of the univ. chest, and the several facs.—theol., law, med., literae humaniores, mod. hist., Eng. lang. & lit., mediev. & mod. lang., oriental studies, phys. sci. (incl. maths.), biol. sci., soc. studies, anthropol. & geog., music, agric. & forestry, and psychol. studies—and which exercises a gen. supervision over the teaching (other than coll. teaching), res. and exams. of the univ. (exec. orgn. being in the hands of the several bds. of the facs., the bd. in each case being composed in pt. of *ex-officio* and in pt. of elected members); and by the *curators of the univ. chest*, who are responsible for the detailed financial admin. of the univ. and for the preparation of accounts and estimates.

The hebdomadal council submits proposals for the amendment of the statutes (which govern the working of the univ.), and measures for the conduct of business beyond the scope of its own authority, to the congregation of the univ., which can adopt, reject, or amend them; congregation comprises mainly the teaching and sr. admin. staff of the univ. Legislation carried by the vote of less than two-thirds of the members of congregation present and voting is referred to, and can be carried or postponed or rejected by convocation, a larger body comprising all holders of the MA and certain sr. degrees who have their names on the univ. books; convocation also confers hon. degrees, and authorizes the affixing of the univ. seal when necessary.

The COLLEGES are corporate bodies distinct from the univ.; they manage their own property, elect their own officers, have their own bldgs. and facilities (usually incl. residential accomm., dining-hall, chapel, library, sr. and jr. common rooms, and playing fields) and control the selection and admission of their own undergrads.; and the proctors have no power within their walls. They are, however, subject to the univ. statutes in certain connexions, notably presentation and audit of accounts, contributions for univ. purposes and elections to professorial fellowships; and all persons who are members of colls. are also members of the univ. and so come under the univ.'s rules. Teaching is carried out partly by way of lectures and classes held by univ. profs., readers, lectrs. and dems., partly by way of individual tuition given by coll. tutors and lectrs. (most of whom hold, in addition to their coll. posts, pt.-time univ. lectureships and are referred to on pp. 1236-1249 as Common University Fund lectrs.).

**INCOME.** The income of the univ. (not incl. the income of the separate colls.) for the year 1960-61 was £4,508,528, made up as follows: endowments, £420,860 (9.6 per cent.); pensionary grants, £2,053,678 (67.8 per cent.); fees, £293,844 (6.5 per cent.); payments for res., £577,127 (12.8 per cent.); contributions from colls., £77,461 (1.7 per cent.); other income, £75,558 (1.6 per cent.).

**FACULTIES AND DEANS.** For facs. see under 'Constitution', above. There are no deans of facs.; enquiries about admission should be addressed to the head clerk, Univ. Registry, Oxford.

**UNIVERSITY BUILDINGS.** Most of the individual colls. and halls of the univ. are centrally situated, together with the major bldgs. serving the univ. as a whole (e.g. Bodleian libr., Sheldonian theatre, Ashmolean museum, exam. schools); sci. depts. and labs. are mostly congregated in the sci. area, which is adjacent to the univ. parks and N. of central Oxford.

Bldgs. completed in recent yrs. incl. provision for agric., inorg. & org. chem., human anat., metall., microbiol., and pharmcol., an extension of the Ashmolean Museum, a gallery for casts, an

oriental inst., a hist. fac. libr., and an extension of the dept. of educn.

Devels. taking place at present or in the near future incl. bldgs. for the depts. of engin., biochem., phys., geol., an Engl. fac. libr., a law libr., an inst. of stats., and a spectators' stand at the athletics ground.

**LIBRARIES.** The principal libr. of the univ. is the Bodleian libr. (founded in 1602 by Sir Thomas Bodley), with its dependent libr. (Radcliffe sci. libr., Rhodes House libr., which deals with the hist. of the British Commonwealth and the U.S.A., and Indian Inst. libr.). It is entitled, under the Copyright Act, 1911, to a copy of every book published in Gt. Britain & Ireland, and now contains about 2,297,000 books and 50,000 MSS. Persons other than members of the univ. may be allowed to read in the libr. in certain circumstances at the discretion of the librarian. The *Visitor's Guide* (on sale at the libr.) gives a short hist. The chief books relating to it are: Mearns, W. D., *Annals of the Bodleian Library* (Clarendon Press, 1890, 35s.); Craster, Sir H. E. E., *History of the Bodleian Library, 1845-1945* (Clarendon Press, 1952, 42s.); *The Bodleian Library Record* (3s. 6d. per no., obtainable from the librarian).

Two other important libra. are those of the Taylor Instn. (about 170,000 books on mod. lang. & lit., incl. the chief philological lit. and historical works in the principal European lang.) and the Ashmolean museum (about 80,000 books on classes, anc. hist., archaeol., art and near eastern studies). In addition, there are some 26 dept. and fac. libr. containing altogether about 377,000 books of sp. interest to their particular studies.

Apart from these univ. libra., each coll. has its own libr., use of which is normally restricted to members of the coll. Two libra. at All Souls Coll. (Oxford) libr. of law and mod. hist. and Brind libr. of pol. econ. & soc. are, however, open to any recommended member of the univ.

**LABORATORIES, DEPARTMENTS AND INSTITUTES** (see also 'Facilities of Sp. Instrms.', below). Archaeol. res. lab., archaeol. inst., agrarian affairs, agric. (with field stn.), agric. econ., biochem., biometry, bot., chem., crystallog., computing, educn., engin., entomol., ethiol., exper. psychol., forestry (Commonwealth, forestry inst.), geog., geol. & mineral, human anat., inorg. chem., maths., metall., meteorol., music, nuclear phys., org. chem. (Dyson Perrins lab.), oriental inst., pathol., pharmacol., phys. (Clarendon lab.), phys. chem., physiol., soc. & admin. studies/soc. med., stats., surveying, theoret. phys., zool., zool. field studies. Also BOTANIC GARDEN and OBSERVATORY.

**MUSEUMS.** The *Ashmolean Museum* (tel.: 57522) (keeper: R. W. Hamblin, [Medic.], MA), Beilmont St., contains one of the best collections of European and near eastern archaeol. in the world, the univ.'s collection of coins, a fine collection of paintings, old master drawings, water-colours, Italian maiolica and bronzes, Engl.

silver and china, and other objects of appl. art. The *Museum of Eastern Art* contains the combined far eastern collections of the Ashmolean Museum and the Indian Inst., including a very extensive range of early and late Chinese porcelain, a fine collection of Chinese bronzes, and comprehensive ranges of Islamic pottery, Japanese craft-work and Gandharan sculpture.

The *Univ. Museum* (tel.: 57467), Parks Rd., contains the collections of the Hope dept. of zool. (entomol.), of the dept. of zool., and of the dept. of geol. & mineral.

The *Pitt Rivers Museum* (tel.: 57467) (curator: T. K. Pennaman, [Trin.], MA, FSA), Parks Rd., contains an anthropological collection and libr. illustrating prehistoric archaeol. and the evolutionary hist. of material arts, the collection comprises notably armour, pottery, clothing, musical instruments, tools, magical objects and objects of various special arts and industries.

The *Museum of the Hist. of Sci.* (tel.: 43997) (curator: C. H. Josten, [Bras.], LL.D. Erlangen, MA), Broad St., illustrates the hist. of sci. studies, especially in Oxford, by contemp. instruments, portraits and books.

**TEACHING HOSPITALS.** Facilities for undergrad. and postgrad. teaching for the univ. are provided by the United Oxford Hosps., which comprise the Radcliffe Inf. and the Churchill and Osler Hosps., and by the regional hosp. bd. in the Liffordmore, Warneford and Park Hosps. and in the Nuffield Orthopaedic Centre.

**FACILITIES OF SPECIAL INSTITUTIONS.** *Institute of Education*, 15 Netham Gdns (tel. 54121) exists to promote co-operation between the univ., the 5 constituent members of the inst. (the dept. of educn., Calham Coll., Blatchley Park Coll., Newlands Park Coll. and Westminster Coll.), local educn. authorities and other educn. agencies in the county borough of Oxford, the county of Oxfordshire and certain neighbouring areas. Dir.: A. D. C. Peterson, [Ball], OBE, MA; sec.: M. M. Spencer, [Ball], MA.

*Maison Française*, 72 Woodstock Rd. (tel.: 57666) An academic, soc. and cultural centre for French studies and students. Dir.: H. A. E. Fluchère, [Eveter], MA; asst. dir.: H. Otlet, [S. Ant.], MA.

*Institute of Commonwealth Studies* Established by statute of the univ. in 1945. The inst. (tel.: 57541) has a libr., a seminar room, tutors' and res. officers' rooms and offices at 9 Elizabeth House (see below), not far from Rhodes House. The inst. is governed by the citce. for commonwealth studies of the univ. Res. dir.: A. F. Madden, [Nuff.], MA DPhil. Sec. to the citce.: T. P. Seper, [S. Ant.], BLitt MA.

*Queen Elizabeth House*, St. Giles (tel.: 59580) Established by royal charter in 1954 to further the study of the major problems affecting overseas territories for which H.M. govt. in the U.K. was then responsible and other countries sharing those problems. A residential centre for grad. students and other Commonwealth visitors under-

taking res' in Oxford; also for courses and conferences in the field of Commonwealth and allied studies. (Widened: L. C. Wilcher, [Bull.], CBE, BLatt. MA.)

The following instns. are approved by the univ. for the purpose of providing instruction for students for certain dipl. open to non-members of the univ. (see p. 1273):

*Nurkin School of Drawing and of Fine Art*, Ashmolean Museum (tel.: 55744) Provides a course of trg. for the cert. in fine art. *Ruskin Master of Drawing*: P. F. Horton, [New], MA.

*Ruskin College*, Walton St. (tel.: 55520). A residential coll. for adult educn., offering courses in soc. scis. and trade union studies, provides courses of trg. for the dipl. in pub. & soc. admin., in econ. and in econ. & pol. sci. Certain scholrs. are available (particulars from the sec.).

*Catholic Workers' College*, Beata Hill (tel.: 35458). Admits adult working-class students under certain conditions; provides courses of trg. for the dipl. in pub. & soc. admin., in econ., and in econ. & pol. sci. Certain scholrs. are available (particulars from the principal).

**UNIVERSITY ENTRANCE REQUIREMENTS.** It should be particularly noted that although information about the univ. entrance requirements may be obtained by students both at home and overseas from the head clerk, Univ. Registry, Oxford, no person may become a member of the univ. without first securing admission to a coll. or society; and that appln. for admission to the univ. must first of all be addressed to the appropriate officer of the society to which admission is desired. Full details may be obtained from Appendix III to this volume. Advice on special problems affecting overseas students may be sought from the setg. adviser to overseas students, Univ. Registry, Oxford.

Incorporation into the univ. is open under certain conditions to undergrads. and grads. of the univs. of Cambridge and Dublin; incorporation means admission to the status (and degrees if applicable) corresponding at Oxford to that held at Cambridge or Dublin. Notice of intention to incorporate as an undergrad. must be sent to the registrar through the head of a coll., hall or society. Incorporation as a grad. (for which adequate reasons must be provided, e.g. obtaining of an educn. post in the univ., or intention to pursue a definite course of study in the univ.) is limited to holders of the BA, MA, BD, or DD of Cambridge or Dublin, of the LL.B., LL.D., MB, MD, MChir of Cambridge, and, under certain conditions, of the ScD, MusD, LittD, and PhD of Cambridge or Dublin.

**NON-MEMBERS OF THE UNIVERSITY** may be admitted to lectures given in a univ. bldg. (but not to classes, seminars, or informal instructn.) on certain conditions and on payment of £10 a term (or, for lectures in one fac. only, £6 a term) to the sec. of the Univ. Chest, 16-19 Wellington Sq., Oxford.

Persons qualified for sr. status (see Appendix III),

or other grade, who may in sp. circumstances be approved, who wish to study at the univ. for not more than one yr. and who do not intend to read for a degree may apply to the appropriate fac. bd. for admission as *recognized students*. Certain fac. bds. will admit to this status only those who are members of the teaching staff of a univ. Such students are not members of the univ., but are placed under a dir. of studies and are entitled to attend lectures in univ. bldgs., to use the univ. libraries and to work in any univ. dept. or instn. subject to the agreement of the hd. of that dept. or instn. Appln. forms for this status may be obtained from the sec. of facs., Univ. Registry, Oxford. The appln. must be accompanied by evidence of degrees previously obtained, a statement of the proposed suby. of study and a cert. from a prof. or hd. of a dept. of the Univ. of Oxford supporting the appln. Admission fee of 5 gp., and tutorial fees of from £10 to £13, are payable.

**FIRST DEGREE.** BA—3 yrs., or, in certain cases, 4 yrs. This is the first degree in both arts and sci. subjs. (The BSc degree at Oxford is a postgrad. degree—see 'Higher Degrees', below).

A candidate for the degree of BA must reside at the univ. as a matriculated member for 9 terms, and must be successful both in the first public exam. and in the second public exam.

The subjs. of the first public exam. are: honour classical moderations, honour matha. moderations; honour sci. moderations; honour theol. moderations, honour biochem. moderations; law moderations, prelim. nat. sci.; prelim. geog.; prelim. mod. langa., prelim. mod. hist.; prelim. Engl.; prelim. oriental studies, prelim. classical (Greek & Latin) langa., prelim. theol.; prelim. philos., pol. & econ.; prelim. music; prelim. psychol., philos., & physiol. and prelim. physiol. Every candidate for the degree of BA must be successful in one of these subjs.; in honour moderations the lists of successful candidates are divided into classes.

Under certain conditions, grads. of other univs. may be admitted to the status of 'senior student' and obtain exemption from the first public exam., as well as remission of 3 terms of the necessary residence (see Appendix III).

The subjs. of the second public exam. consist of a pass sch. and a no. of honour schs. Every candidate for a pass BA degree must be successful in 3 of a large variety of subjs., one of the 3 being a lang. other than Engl. Every candidate for an hon. BA degree must not have exceeded a certain no. of terms from matric. and must have obtained hon. in one of the following: *literae humaniores* (philos. & anc. hist.); matha., nat. sci. (phys., chem., physiol., zool., bot., geol., biochem., metall., or engin.); *jursp.*, mod. hist.; theol.; oriental studies (Sansk., Arabic, Hebrew, Persian, Egyptian or Chinese); Engl. lang. & lit.; mod. langa. (French, German, Italian, Spanish, Russian, mediev. & mod. Greek, or Portuguese); philos., pol., and econ.; geog.; agric.; for.; psychol.,



philo., & physiol., and music. The lists of successful candidates in hon. exams. are divided into 4, or in some cases 3, classes.

**BM BCh**—men 6 yrs. This is the first degree awarded by the univ. in med., though (with very few exceptions) it may not be awarded to persons who have not first taken the BA degree, which will normally have been obtained after the first 3 yrs. by gaining hon. in certain of the subj. being studied concurrently for the BM. The last 3 yrs. of the course are devoted to clin. studies, and may be spent either in the Oxford clin. sch. or in an approved clin. sch. elsewhere. Further information from the sec. of the med. sch., Osler House, 43 Woodstock Rd., Oxford.

**HIGHER DEGREES** **MA**—open only to Oxford BAs, and awarded without further exam. after 7 yrs from matric. on payment of certain fees.

**BPhil**—men 1 yr.'s study. This degree is granted after an exam. in philo., or Greek and Latin langs. & lit. or pol. or econ. or European hist. or Commonwealth & American hist. or Engl. studies or oriental studies of the same type as that in a final honour sch., but is open only to persons (normally grads.) who have been admitted by the appropriate fac. bd. Courses of instruction in the subj. of the exams. are provided. A thesis may be offered in addition to the written work. Residence for 6 terms is required.

**BSc and BLitt**—min. 1 yr.'s study. These degrees are granted upon the satisfactory completion of an approved course of sp. study or res., pursued under supervision and for the most part at Oxford, and of at least 6 terms' residence. Applicant to enter upon such a course may be made by any person who produces sufficient evidence of his ability and either is a member of the univ. who has passed the exams. for the degree of BA, or has taken an approved degree at an approved univ., or is held by the fac. bd. concerned to be fully qualified to engage in res., or (for the BLitt only) has obtained an Oxford dipl. with distinction. Applicant must in all cases be made to the sec. of fac. through an officer of the society to which the candidate belongs or desires to belong. A candidate for the BLitt must first undergo a probationary period of trg. in res. methods and then do a sp. piece of res. work and write a thesis, and may be required to pass a written exam. For the BSc, which is confined to the study of med., maths., nat. sci., anthropol., geog., agric., for. and psychol., no probationary period is prescribed.

**BMus**—min. 1 yr. This degree is open only to those who have been admitted to the degree of BA with 1st or 2nd class hon. in music. Candidates must pass a written exam. and submit a musical exercise for approval.

**DPhil**—mun. 3 yrs. (except that for a candidate who is a BPhil the min. is 1 yr.). This is a higher res. degree in letters or sci. presupposing prelim. trg. in res., or outstanding ability, and requiring that the candidate's work shall result in 'an original contribution to knowledge deserving publication'. It is usually required that the

applicant should either have obtained the Oxford degree of BLitt or BSc or have served an apprenticeship in res. approximately equal in value to that implied by those degrees. A grad. of another univ. may be admitted if he can produce evidence of sp. fitness in a manner satisfactory to the bd. of the fac. concerned.

**BCL**—3 yrs. The exam. is open either to BAs of the univ. or, under certain conditions, to grads. of other univs. The subj. are Roman & Engl. law, together with 2 of the following sp. subj.: mod. jurispr., conditions, evidence, criminal law & penology, pub. internat. law, Roman-Dutch law, legal hist., admin. law, compar. law of matrimonial causes. Courses of instruct. in the subj. of the exam. are provided.

**BD**—2 yrs. This degree is open to candidates over 21 yrs. of age who have passed a qualifying exam. in Christian theol., pursued a course of study thereon, and submitted a thesis of sufficient merit in some branch of the subj. No candidate may present a thesis until he has passed the qualifying exam., which is open to Oxford MAs, to persons who have, not less than 5 terms previously, passed all exams. for the Oxford BA, and, under certain conditions, to grads. of other univs. 1st or 2nd class hon. in the final honour sch. of theol. exempts from the qualifying exam.

**Other Higher Degrees.** The following are open only to Oxford grads. of many years' standing. **DLitt and DSc**—awarded for publd. work constituting an original contribution to the advancement of learning or sci. respectively. **DMus**—awarded for a major musical work or works of outstanding merit. **MCh**—candidates must pass a written exam. on the principles and practice of surg. and must submit a thesis on an approved subj. connected with surg. **DM**—awarded on a thesis, or publd. work, on an approved subj. connected with med. **DCL**—awarded for publd. work forming a substantial contribution to legal learning. **DD**—awarded on a thesis, or publd. work, in some branch of Christian theol.

**HONORARY DEGREES.** The following may be conferred as honorary degrees: MA, DSc, DLitt, DMus, DCL, DD.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS AND CERTIFICATES.** The period of study is 1 yr. or a min. of 1 yr. unless otherwise stated in the following lists, which also indicate the source from which particulars may be obtained.

*Dipls. confined to members of the univ.:* agric. econ. (dir., agric. econ. res. inst., Parks Rd., Oxford); classical or European archaeol. (sec. to cttee. for archaeol., Ashmolean Museum, Oxford); hist. of art (sec. to cttee. for hist. of art, o/o Univ. Registry, Oxford); hist. & philo. of sci. (sec. to cttee. for hist. & philo. of sci., o/o Univ. Registry, Oxford); Celtic studies (normally 2 yrs.), geochem., law, Slavonic studies, statu., theol. (sec. of fac., Univ. Registry, Oxford). The cert. in statu. (sec. of fac., Univ. Registry, Oxford) is also confined to members of the univ.

*Dipl. not confined to members of the univ.*: anthropol. (curator, Pitt Rivers Museum, Oxford); educn. (dir., dept. of educn., 15 Northam Gardens, Oxford; for vacation courses, see below); econ. & pol. sci. (sec. of facs., Univ. Registry, Oxford), pub. & soc. admin. (dept. of soc. & admin. studies, Barnett House, Oxford); for. (prof. of forestry, Commonwealth forestry inst., Oxford); compar. philol. (prof. of compar. philol., Worcester Coll., Oxford)

The certs. in phys. anthropol. and in cultural anthropol. (curator, Pitt Rivers Museum, Oxford), and in fine art (normally 4 yrs., Ruskin Master of Drawing, Ashmolean Museum) are also not confined to members of the univ.

#### POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION ARE NOT PROVIDED

**RESEARCH.** There are facilities for postgrad. res. in most fields of study in the univ.; some information may be found above under 'Higher Degrees', 'Diplomas and Certificates', 'Libraries', 'Laboratories, etc.', 'Museums'. Full particulars are publ. in the booklet, 'Facilities for Advanced Study and Research', available from the head clerk, Univ. Registry, Oxford, price 2s. (post paid). Some details of recent res. activities are given in the annual reports of various univ. depts. publ. in the *Univ. Gazette* from time to time.

**STUDY LEAVE.** The visitorial bd is empowered, subject in certain cases to the approval of congregation, to grant sabbatical leave for 1 term in respect of every 6 completed terms of service.

**FEES.** Details of fees payable by students vary considerably from coll. to coll., and according to the suby. studied and to whether the student is living in coll. or lodgings. The student's average total expenditure (incl. personal expenditure) for the 24 weeks of residence is, at the time of writing (Aug. 1962), and suby. to the variations mentioned and to changes made from time to time in the various items of expenditure, about £450 for an arts course or £490 for a sci. course. Further particulars may be found in the *Handbook to the Univ. of Oxford* (see 'Publications', below).

**ACADEMIC YEAR.** The academic year comprises 3 terms each of 8 wks., with vacations of 6 wks. each at Christmas and Easter and of 16 (or sometimes 17) in the summer. Terms for 1963-64: Oct. 13-Dec. 7; Jan. 19-March 14; April 26-June 20.

**ADULT EDUCATION** (see also 'Teaching Staff', above). The Delegacy for Extra-Mural Studies is concerned with the promotion of the liberal studies of adults, through classes and courses, principally in Oxfordshire, Berkshire and Buckinghamshire, Kent and E. Sussex. In all areas the delegacy co-operates with local educn. authorities, with the W.E.A. and with other voluntary organisations. The work is carried on through (a) 3-yr. tutorial classes, (b) preparatory tutorial classes, of 1 yr.'s duration; (c) univ. sessional classes;

(d) univ. extension lecture courses; (e) residential summer schs., incl. vac. courses for overseas grad. students, (f) shorter residential courses; and (g) courses of comparable standard for members of H.M. forces. The delegacy co-operates also with the Y.M.C.A. residential coll. at Kingsgate, Kent. The delegacy has full-time tutors and lectrs. resident in the areas covered by the univ.'s extra-mural activities. On the recommendation of the delegacy, adult students may be exempted from the univ. normal entrance requirements. Address: Rewley House, Wellington Sq., Oxford (tel. 57203).

See also 'Ruskin College' and 'Catholic Workers' College' (p. 1271).

**VACATION COURSES.** Courses are held by the dept. of educn. (15 Northam Gardens; tel. 54121) usually in July and August, either as short courses for sp. groups, or as refresher courses for teachers of experience, suitable also as an introduction to the more general study of educn. questions (open to men and women).

A summer school for young business executives is also held, originating in the intention to provide a course for business executives aged 27-33 marked out by their firms as likely to reach ar. managerial positions. The univ. appts. office (see below) is responsible to the univ. for the scheme (but not for the contents of the courses nor for the method of teaching).

Several vacation courses are held by the delegacy for extra-mural studies (see above). These include (a) a summer sch. mainly for W.E.A. students, and (b) a 6-week summer sch. for overseas and British students (grad. or at undergrad.) in some aspect of English hist. and lit.

**PRINCIPAL 'OPEN' AWARDS.** The only awards offered by the univ. to students wishing to read for a 1st degree are the Square bursaries in theol. and the Davis scholp. in Chinese; these are tenable at any coll. but do not of themselves carry admission to a coll.; numerous entrance awards are, however, offered by the colls. themselves. Details of all these awards are publ. annually in June in a sp. scholp. numbers (1 for men and 1 for women) of the *University Gazette*, obtainable from the Univ. Press Showroom, 116 High St., Oxford.

**POSTGRADUATE AWARDS** open to grads. of other univs., see p. 910.

**RHODES SCHOLARSHIPS** were founded in 1902 under the will of the late Cecil John Rhodes. Their value is £750 a yr. each. They are tenable for 2 yrs. in the first instance at Oxford Univ.; and for a third, if it is eminently in the interests of a scholar's immediate studies and future career, either in Oxford or, in rare cases, elsewhere, but not in the country of the scholar's origin.

In his will, Mr. Rhodes expressed the wish that 'in the election of a student to a scholarship regard shall be had to his literary and scholastic attainments; his fondness for and success in many outdoor sports, such as cricket, football,

and the like, his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness, and fellowship; and his exhibition during schooldays of moral force of character, and of instincts to lead and to take an interest in his school-mates'. The conditions of the competition in each country or community are fixed from time to time by the trustees.

Approx. 39 scholars are assigned annually to the British Commonwealth and South Africa as follows: Australia, 6 (1 for each state); Bermuda, 1; British Caribbean, 1 (every 3rd yr. from 1961); Canada, 11 (2 each for Ontario and Quebec and 1 each for the other provinces); Ceylon, 1 (every 3rd yr. from 1958); Ghana, 1 (every 3rd yr. from 1959); India, 2; Jamaica, 1; Malta, 1; Malaya, 1 (every 3rd yr. from 1966); New Zealand, 2; Nigeria, 1 (every 3rd yr. from 1961); Pakistan, 1; Rhodesia, 3; South Africa, 8 or 9 (1 each for Cape Province, Natal, Orange Free State and Transvaal, and 1 every alternate yr. for Eastern Province, and 1 each for the following 4 schs.: Diocesan Coll., Rondebosch, Paul Roos Gymnasium, Stellenbosch, St. Andrew's Coll., Grahamstown, and South African Coll. Sch., Cape Town).

32 scholars are assigned annually to the U.S.A.—4 to each of 8 districts, awarded among candidates sent forward from each state, of which there are normally 6 in the district.

Candidates for Rhodes' scholars must be between 19 and 25 yrs. of age and unmarried. They must be citizens of the country from which they come, usually with 5 yrs.' domicile, and except in a few sp. cases must have at least a yrs.' standing at a regular degree-granting coll. or univ.

Since the scheme was inaugurated, 3505 Rhodes scholars have been elected. In the year 1961-62, 177 Rhodes scholars were in residence, 95 from the British Commonwealth and 8 Africa and 82 from the U.S.A.

*Sec. to the Rhodes Trustees and Wardens of Rhodes House, Oxford:* E. T. Williams, CB, CBE, DSO, MA, FRHistS (tel. 35745, telegrams: Rhostrust, Oxford). *Local secs:* *Australia:* Sir George Paton, Univ. of Melbourne, Parkville, N.A. Victoria. *Bermuda:* H. C. Butterfield, Esq., c/o Bank of N. T. Butterfield & Son, Ltd., Hamilton. *British Caribbean:* H. L. Wynter, Esq., Univ. of the West Indies, Kingston, 7, Jamaica. *Canada:* D. R. Macneil, Esq., QC, MP, 5 Rosedale Rd., Toronto, 5, Ceylon: P. H. G. Gibbs, Esq., 154 Galle Rd., Colombo, 3, Ghana: F. H. Carson, Esq., British Council, P.O. Box 771, Accra. *India:* Rajat Bhatia, Esq., St. Stephen's Coll., Delhi, 8, *Jamaica:* H. L. Wynter, Esq., Univ. of the West Indies, Kingston, 7, *Malta:* Prof. J. A. Manché, Royal Univ. of Malta, Valletta. *Malaya:* . . . *New Zealand:* Hon. Mr. Justice Haslam, 9 Kinross St., Wellington, C.I. *Nigeria:* Rev. F. Poulter, c/o Registrar, Univ. of Ibadan, *Pakistan:* Hon. Mr. Justice J. Outchason, CBE, 4 Club Rd., Lahore. *Rhodesia:* C. P. J. Lewis,

Esq., Barclays Bank Bldg., 59 Manica Rd., Salisbury. *South Africa:* A. H. Gie, Esq., Permanent Bldg., Darling St., Cape Town. *U.S.A.:* President C. Smith, Swarthmore Coll., Swarthmore, Pa.

**APPOINTMENTS COMMITTEE.** The office deals with appts. of all kinds, and has reps. and correspondents in all colls. and co-opted members from industry, etc. For staff, see 'Admin. and Other Staff', above. *Address:* 4, St. Giles, Oxford. *Telegrams:* Appointments, Oxford. *Tel.* 59395.

In 1961, 1013 permanent appts. were obtained, incl. govt., 73, educn., 373; comm. and industry, 517; misc., 50. In the same yr. 28 temp. appts. were obtained.

**GRADUATE ASSOCIATIONS.** The Oxford Soc., which is open to all members of the univ., was founded in 1932 with the object of establishing a corporate fellowship of Oxford men and women. It issues twice yrly. a magazine (*Oxford*) giving news of events and developments in the univ. and the colls., has a widespread branch organization which enables local members to meet each other, makes grants to young grads. and undergrads. in need and to bodies (such as the Oxford Preservation Trust) which are concerned with matters of common interest to members, organizes tours of industry for the benefit of undergrads. who intend to make their careers in industry or comm. *Sec.:* Mrs. Daphne M. M. Lennie, MA, 18 Museum Rd., Oxford (tel.: Oxford 59345).

Halifax House was establd. in 1950 as a hostel, club and social centre for grad. students, ex-members of the univ. engaged in res., teaching or admin. in the univ., and visitors from overseas temporarily in Oxford for advanced study. *Warden:* Janet G. Anderson, Halifax House, 6 & 7 South Parks Rd., Oxford (tel.: Oxford 54041).

**STUDENTS' RESIDENCES.** Students are accommodated either in the colls. or in lodgings which the students themselves find. Each lodging must be approved by the univ., which maintains a lodgings delegacy which helps students to find accomm. *Sec.:* A. W. Davies, [MSc], MA, 18 Kable Rd., Oxford (tel.: Oxford 57900).

**STAFF RESIDENCES.** Colls. normally provide accomm. (either in or out of coll.) for some members of their staff. In addition, the univ. lets accomm., as available, to members of its staff.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** The Oxford univ. officials try corps (with which is included a women's royal army corps sub-unit) and the Oxford univ. air squadron provide trg. mainly for students wishing to take up permanent commissions in the army or the air force or for those who have completed their national service and wish to continue trg. The H.Q. of each is in Manor Rd., Oxford (tel.: army—Oxford 42483, air force—Oxford 44634).

The general supervision of all military trg. in the univ. is under the control of the delegacy for military instrcn. (consisting of the vice-chan-

cellor, the proctors, 5 officers of the univ. units, the Chichele prof. of the hist. of war, a person apptd. by the army council, a person apptd. by the air council, and 3 members of convocation). The delegacy also supervises the exam in military hist., which is part of the pass sch.

There is no naval formation in the univ.

**STUDENT HEALTH SERVICE.** There is no comprehensive health service administered by the univ. Most (if not all) cells, however, have arrangements with a doctor for the treatment of members of the coll. and with a nurse to attend at stated times for treatment of minor ailments. In addition, a mass-radiography scheme is organized for the benefit of all members and staff of the univ.

**STUDENTS' REPRESENTATIVE COUNCIL.** There is no official students' rep. council for the univ. Within each coll., however, there is an informal student organization concerned with matters (other than academic) of common interest to undergrad. members of the coll.

**STUDENTS' UNION.** The Oxford Union Soc. is open to all male members of the univ. In addition to functioning as a debating soc. it has a lending libr., restaurant and rooms for voc. activities. Its premises are in St. Michael's St., Oxford (tel. : Oxford 41335).

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD examines or inspects and reports on the work of schs. which provide educn. of the highest grade. It holds exams in summer and autumn and awards a General Cert. of Educn. which qualifies the holder, under certain conditions, for entrance to univs. and exemptions from the prelim. exams of various profess. bodies, etc. Its exams are held at schs. in the British Isles, the Middle East, the W. Indies, British Guiana, Natal and Rhodesia. The bd. publs. *Regulations* (2s. 6d. post free from the Oxford Univ. Press—for addresses, see below), lists of successful candidates and papers of the G.C.E. exam. Oxford sec. : G. J. R. Potter, [Ch. Ch.], OBE, MA, 24 High St. (tel. 43549). Cambridge sec. : A. E. E. McKenzie, MA Camb., 10 Trumpington St. (tel. Cambridge 50658).

THE OXFORD DELEGACY OF LOCAL EXAMINATIONS holds exams. and awards a General Cert. of Educn., which qualifies the holder, under certain conditions, for entrance to univs. Its exams are held in summer and autumn at centres in Gt. Britain, N. Ireland, Malta and certain other overseas centres. The delegacy publs. *Regulations* (2s. post free from the sec.). Candidates for the exams must be present or former pupils of a sch. at which a centre is approved and, except under

DEPARTMENTAL TELEPHONE NUMBERS (Oxford exchange in each case)

Agrarian Affairs, Inst. of	43256	Geography	41044	Nuffield Inst. for Med. Res.	42631
Agricultural Economics,		Geology	35835	Observatory	50926
Inst. for Res. in	57775	Historic House	54031	Offices Training Corps	52388
Agricultural Pwd. Sth.	47350	History of Art (Prof.)	57262	Oriental Inst.	50272
(Field Lab.)	47368	History Fac. Library	43395	Ornithology, Field (E. Grey	47820
Agriculture	57245	Inst. of Sci., Museum of	43987	Inst. of)	
Air Squadron	44694	Human Anatomy	52680	Oxford & Cambridge	
Appointments Cttee.	50295	Inorganic Chem. Lab	57387	Schools Exam. Bd.	43549
Archaeol. Inst.	58850	Land Agent's Office	57312	Oxford Society	50345
Archaeol. Res. Lab.	55211	Local Exam. Offices	18647	Packs, Carriers of	50880
Asiatic Museum	57588	Lodging, Delegacy of	57905	Palace, Sir Wm Dunn	
Biochemistry	50216	Malton, Fingerprint	57050	Sch. of	57321
Biology Unit	56882	Marshall and Polles	44026	Pharmacology	57062
Botan. Library	44675	Mathematical Inst.	55464	Physical Chemical Lab.	57316
New Library	47035	Medical Sch.	41022	Physiology	57451
Botanical Garden	47337	Medicine, Regius Prof. of	55207	Pitt Rivers Museum	57467
Botany	57859	Metalurgy	57442	Proctors' Office	44026
Bureau of Animal Popula-		Microbial Unit, Duchom-		Queen Elizabeth House	55000
tion	44261	istry Dept.	55740	Radclyffe Science Library	55004
Chest Office	54221	Mineralogy	55855	Reduction Protection	
Clarendon Lab.	59991	Museum, Univ.	57497	Registrar & Sec. of Facs	57391
Commonwealth Studies,		Music, Fac. of	47609	Rhodes House	55745
Inst. of	57541	Nuclear Physics	54141	Ruskin Sch. of Drawing	55744
Comparing Lab	57835	Nuffield Dept. of	48891	Social Anthropol., Inst. of	55971
Crysallography	57344	Anaesthetics	48891	Social Medicine	57343
Dyson Purdie Lab.		Nuffield Dept. of Clinical	48891	Social & Admin. Studies	56637
(Organic Chemistry)	59601	Biochemistry	48891	Social Studies Library	55935
Economics & Statistics,		Nuffield Dept. of Medicine	48891	Surveying & Geodesy	57816
Inst. of	43221	Nuffield Dept. of Obstetrics	48891	Surveyors' Office	44654
Education, Dept. & Inst. of	54121	& Gynaecology	48891	Taylor Institution	55059
Engineering Science	57501	Nuffield Dept. of	48891	University Press :	
Entomology	57529	Ophthalmology	48891	(Printing)	57565
Ethnology	57467	Orthopaedic Surgery	56812	(Publishing)	57437
Examination Schools	41449	Nuffield Dept. of Pathology	48891	(Showroom)	48913
Exper. Psychol. Inst. of	55080	& Bacteriology	48891	University Theatre	47134
Extr.-Mural Delegacy	57203	Nuffield Dept. of Plastic	64121	Zoology & Compar. Anat.	55278
For Eastern Library	59353	Surgery	48891		
Forestry (Commonwealth		Nuffield Dept. of Surgery	48891		
Forestry Inst.)	57891				

certain conditions, may not enter below a certain age limit. Sec.: C. W. Stokes, [Jes], MA, 12 Merton St (tel.: 48047).

**PUBLICATIONS.** *General Information* pamphlet (free), giving information on method of appln., admission requirements, entrance scholcs., expenses, exams., degrees, dipls. and cert.; *Facilities for Advanced Study and Research* pamphlet (1s., post paid), giving details of dipls. and higher degrees open to grads. of other univs., are obtainable from the head clerk, Univ. Registry, Oxford.

*Oxford Univ. Calendar* (about Jan., 22s. net) includes lists of univ. officers, bds and cities; teaching staff; istatna.; fellowships, scholcs. and prizes; members of colls., halls and socs.; and class and honour lists. (Earlier honours are listed in the *Historical Register* (5/p) and in the *Supplements* to it for 1901-30 (7s. 6d. net) and 1931-50 (10s. 6d. net)). *Handbook to the Univ. of Oxford* (about June, 15s. net) describes the univ.'s hist., archit., constitution, courses of study, res. facilities, librs., labs., museums, tutorial system, coll. life, sports, etc., with some information on degrees, dipls., cert., etc. *Exams. Statutes* (Sept., 5s., by post 5s. 10d.). *Statuta et Decreta Universitatis Oxoniensis* (Oct., 18s. net) *Pocket Diary* for academic yr. (Oct., 7s. 4d., by post 7s. 7d.; with pencil, 1s. 10d. extra). *Resident Members* with addresses (Oct., 8s. 6d., by post 9s.). *Univ. Gazette* (annual sub. £1: 1s. post free). All the above are obtainable from Oxford Univ. Press, Press Rd., Nassen, London, N.W.10.

Among other sources of information about the univ. are: A. & Wood, *History of the Univ. of Oxford*, 3 vols., 1792-96; A. & Wood, *Athenae Oxonienses* (with *Facts*), ed. by F. Bliss, 4 vols.,

1813-20; J. Foster, *Alumni Oxonienses, 1550-1886*, 8 vols., 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; C. Hadden, *The Story of Oxford, 1907*; Sir C. Mallet, *History of the Univ. of Oxford*, 3 vols., 1924-27; C. R. L. Fletcher, *A Handy Guide to Oxford* (1926); P. P. Barnard & T. Shepard, *Arms and Blazons of the Colleges of Oxford, 1929*; *The Government of Oxford* (O.U.P., 1931); L. H. D. Burton & S. Gibson, *Oxford Univ. Caravans* (1935); *Victoria County History of Oxford*, vol. III (1934, £4: 4s.); D. R. Venables & R. E. Clifford, *Academic Dress of the Univ. of Oxford* (1937, 5s. 6d.).

**UNIVERSITY PRESS** (For staff, see 'Admin and Other Staff', above). The univ. press is a dept. of the univ. controlled, through its sec., by a bd. consisting of the vice-chancellor, proctor, the representative of the women's colls., and 10 delegates apptd. from members of convocation. Its headquarters are at Oxford, in the Clarendon Press bldg., where are also the publishing dept., responsible for learned books, and the printing works. Books produced at Oxford are distributed by the London publisher and manager, who himself publs. for the univ. other classes of less learned books. In addition to these depts., and a paper-mill at Wolvercote, Oxford, the press also owns and controls branches overseas, for the prodn. of books of local interest as well as the sale of those produced in England. The press publs. a *General Catalogue* (5s.).

Addresses of publishing depts. in England: Oxford: sec. to the delegates, Clarendon Press, Oxford (tel.: Oxford 57457); London: London publisher and manager, Oxford Univ. Press, Amen House, London, E.C.4 (tel.: London, City 7701); and of printer to the univ.: Univ. Press, Oxford (tel.: Oxford 57565).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Various individuals and foundations for the new St. Catherine's Coll. (incl. £100,000 from Wolfson Foundation, \$500,000 from Dr. R. Light, \$250,000 from Ford Foundation); Wellcome trustees, £50,000 for res. lab. in dept. of biochem., and £16,000 for enlargement of animal house at Nuffield Inst. for Med. Res.; Nuffield Foundation, £25,000 to unit of biometry for res.; various trusts, foundations and colls. for improvement of interior of univ. theatre, £11,041.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. approaching completion: engin., biochem. & phys. labs.; law & Engl. librs.; inst. of stats.; St. Catherine's Coll.

**NEW DEPARTMENTS AND CHAIRS.** Chair of Russian and Balkan hist., univ. theatre (for performances by univ., coll., repertory and other profcol. and amateur cos., and for lectures and conferences); inst. of archael.

**RETIREMENTS.** M. Platnauer (principal of Bras.); Sir John C. Maisterman (provost of Worcester); A. Thom (prof. of engin. sci.); E. F. Jacob (Chichele prof. of med. hist.); B. Ashmole (Lincoln prof. of classical archael. & art); R. N. Duxey (dir., inst. of agrarian affairs).

**DEATHS.** Helen Darbishire (formerly principal of Som.); Canon R. W. Howard (formerly master of St. Peter's Hall); A. B. Rodger (fellow of Ball.); Sir Geoffrey Faber (formerly fellow & estates bursar of All S.); Most Rev. R. H. Owen (formerly archbishop of New Zealand, hon. fellow of Worcester and Bras.); Rt. Rev. A. Rawlinson (formerly bishop of Derby); Sir Lewis B. Namier (formerly prof. of mod. hist.); Mrs. Elizabeth M. Carter (fellow of S. Ann.); G. A. Paul (fellow of Univ.); P. A. Landon (emeritus fellow of Trin.); V. T. Harlow (Belt prof. of hist. of British Commonwealth); I. R. J. Jack (fellow of Bras.); Rt. Rev. H. H. Williams

(formerly bishop of Carchale, hon. fellow of S. Edm., Qu., and Hertf.); P. H. Spencer (tutor of S. Cat.).

**HONORARY DEGREES DCL**—Prof. Dr. T. Heuss, formerly pres., Fed. German Republic; Rt. Hon. Lord Radcliffe, hon. fellow of New Coll., lord of appeal in ordinary, Rt. Hon. Sir Norman Brook, hon. fellow of Wadham Coll., sec. of cabinet, jt. sec. of treasury and hd. of home civil service, D. Hammarskjöld, sec.-gen. of U.N. *DLit*—Dame Peggy Ashcroft, Prof. F. P. Braudel, H. Moore, J. Csán, Rosalind L. B. Mose, Marchese R. Rodolfi, P. Mellon *DSc*—Prof. S. Cohen, J. B. S. Haldane, hon. fellow of New Coll., R. F. Loeb. *MA*—Janet E. Heseltine; J. P. Wells.

Distribution by Faculties. *Agric.*, 85; *arts*, 4371; *exile.*, 177; *med.*, 338; *sci.*, 2199, *sc. studies*, 1630. Total: 8800.

Included in the figures above are —

Postgraduate students, 1279.

New admissions, 2597.

Students from other countries, 1001. (Countries from which largest numbers came: U.S.A., 307, Australia, 84; S. Africa, 71; India, 63; Canada, 62; New Zealand, 35.)

**DEGREES AWARDED (1960-61)** BA, 2040 and 7 incorporations; MA, 1401 and 19 incorporations, BD, 1; DD, 1; BLitt, 50; DLitt, 2; BPhil, 19, DPhil, 194; BCL, 14; BM BCh, 66; DM, 6 and 2 incorporations; MCh, 1; DMus, 1, BSc, 36, DSc, 9.

**DIPLOMAS AWARDED (1960-61)** Agric. econ., 8; anthropol., 14; Celtic studies, 1; classical archaeol., 2; comp. philol., 1; educn., 133; econ., 8; econ. & pol. sci., 34; hist. & philos. of sci., 3; law, 5; pub. & soc. admin., 46; Slavonic studies, 5; stats, 1; theol., 10.

**CERTIFICATES AWARDED (1960-61)** Anthropol., 3; fine art, 10; stats., 10.

# Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	7490	—
Women	1310	—
Total	8800	—

# UNIVERSITY OF READING\*

Founded 1926; previously established as University Extension College (1892),  
Reading College (1898) and University College, Reading (1902)

Postal Address: Reading, Berkshire, England

Telephone (Registrar): Reading 81771

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. the LORD BRIDGES, GCB, GCVO MC, MA Hon DCL Oxon, Hon. LL.D.  
Brit., Lond., Camb. & H.K., Hon D.Litt, FRS

VICE-CHANCELLOR—Sir JOHN WOLFESEN, CBE, MA Oxon

PRESIDENT OF THE COUNCIL—Sir GEORGE R. MOWBRAY, Bt., KBE, MA Oxon, Hon. D.Litt

TURKISH—Major L. M. E. DENT, DSO

REGISTRAR—J. F. JOHNSON, BA

LIBRARIAN—D. T. RICHIE, BA Camb., FLA

BURGER—E. H. CARPENTER, FCA

## TEACHING STAFF

[†=Part-Time]

Agricultural Botany	
Bunting, A. H., MSc <i>Reading</i> , DPhil <i>Oxon</i>	Prof.
Waldie, J. S. L., BSc <i>Kilm</i>	†Lectr.
Snow, D., PhD <i>Glas</i> , BSc(Agric)	Lectr.
Owen, H., BSc(Agric) PhD	Lectr.
Cartwright, Phyllis M., BSc PhD <i>Leeds</i>	Lectr.
Jones, J. K., BSc PhD <i>Monc</i>	Lectr.
Rowley, G. D., BSc <i>Leeds</i>	Lectr.
Curnow, R. N., BA <i>Camb</i> , PhD <i>Aberd</i>	(Biometry) Lectr.
Snaydon, R. W., BSc <i>Wales</i>	Asst. Lectr.
Drennan, D. S. H., BSc <i>Glas</i>	Asst. Lectr.
Brookhouse, J. K., BSc <i>Leeds</i>	(Biometry) Asst. Lectr.
Fox, S., MA <i>Camb</i> .	
Dominy, J. N.	Lectr.
(Surveying & Bldg. Construcn.)	
Pearce, J., PhD	Lectr.
Gibb, J. A. C., MA <i>Camb</i> , MSc <i>Durb</i>	(Agric. Engin.) Lectr.
Morris, T. R., BSc	Lectr.
Moegun, K. E., BSc <i>Wales</i> (Agric. Engin.)	Lectr.
Lloyd, D. H., BSc <i>Wales</i>	Lectr.
Taylor, R. S., BSc(Agric) <i>Leeds</i>	Lectr.
Harris, P. M., BSc <i>Leeds</i>	Lectr.
Batting, P. M., MA <i>Camb</i> , (Agric. Engin.)	Lectr.
Allen, D. M., PhD <i>Nott</i> , BSc	Lectr.
† Res. Agriculturist	

Agricultural Economics	
Thomas, E., CBE, B.Litt <i>Oxon</i> , BSc <i>Wales</i>	Prof.
Provincial Agric. Economist, Prof.	
Tuck, R. H., MA <i>Oxon</i>	Reader
Bassett, G. B., BSc <i>Aberd</i> , MS <i>Camb</i>	
Sr. Res. Economist (with title of Sr. Lectr.)	
Bennett, L. G., PhD	Sr. Res. Economist
Giles, A. K., BSc(Econ) <i>Belf</i>	Sr. Res. Economist
Mills, F. D., BA <i>Monc</i> , MS <i>Corn</i>	Lectr.
Jewell, C. A., BSc(Agric)	Lectr.
6 Res. Economists, 1 Res. Asst., 1 Hon. Res. Fellow	
Art (School of Art)	
Betts, J. A.	Prof.
Finney, H.	(Drawing & Painting) Lectr.
Ormrod, F.	(Design) Lectr.
Davies, T. Barry	(A. Educn.) Lectr.
Redman, H. V.	Lectr.
Twyman, M. L., BA	(Typog., etc.) Lectr.
Dilworth, N.	(Sculpture) †Sessl. Lectr.
Montagu, Jennifer, BA <i>Oxon</i> , PhD <i>Leeds</i>	(Hist. of A.) †Sessl. Lectr.
Barrett, T. J., BA	†Sessl. Lectr.

Botany, see also Agric. Bot

Harris, T. M., MA ScD <i>Camb</i> , BSc <i>Leeds</i> , FRS	Prof.
Maxted, Mrs. Barbara, BSc PhD <i>Leeds</i>	†Lectr.
Hogg, F. B., BA DPhil <i>Oxon</i>	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Watson, E. V., BSc PhD *Edin* Lectr.  
 Warren Wilson, J., MA DPhil *Oxon*  
 (on leave) Lectr.  
 Wedsworth, R. M., BSc PhD Asst. Lectr.

**Chemistry**, see also N.I.R.D. (p. 1281) and  
 Physiol. Chem.

Guggenheim, E. A., MA ScD Camb., FRSc,  
 FRIC Prof.  
 Holt, P. F., DIC, BSc PhD *Lond.*,  
 DSc Lect., FRIC Reader  
 Price, J. E., MA DPhil *Oxon* Reader  
 McGlashan, M. L., MSc N.Z., PhD  
 DSc Reader  
 Maxted, D. R., BSc *Lond* Sr. Lectr.  
 Halferstadt, E. S., BSc PhD *Lond.* Lectr.  
 Bryoe-Smith, D., DSc *Lond.* Lectr.  
 Mills, I. M., DPhil *Oxon*, BSc Lectr.  
 Mills, J., MD *Manc.* Hon. Res. Fellow  
 7 Res. Chemists

**Classics**

Cormack, J. M. R., MA Camb. & *Aberd.* Prof.  
 Williams, R. D., MA Camb Reader, Sr. Lectr.  
 Creed, J. L., MA Camb Lectr.  
 Wadman, A. E., MA Camb. Lectr.  
 Robertson, P., MA *Aberd.*, BA Camb. Lectr.  
 Landale, J. G., MA *Aberd.* & Camb.,  
 PhD *Hull* Lectr.  
 Ure, Mrs. Anne D., BA *Lond.*  
 (Greek Archaeol.) Hon. Res. Fellow

**Dairying**

Crossley, E. L., BSc *Lond.*, FRIC Prof.  
 Rothwell, J., BSc(Dairying) Lectr.  
 Benjamin, Margaret I. W., BSc(Dairying) Lectr.  
 Scott, R., BSc(Agric) *Nott.* Lectr.  
 Apling, E. C., BSc *Lond* (Food Sci.) Lectr.  
 MacKenzie, P. K. Sessl. Lectr.

**Education**

Dehanson, C. H., MA DipEd *Oxon.*,  
 BSc *Lond* Prof., Dir. of Inst  
 Mallinson, V., MA DipEd *Leeds* Reader  
 Armstrong, H., MA *Lond.*, MSc *Leeds*,  
 MEd DipEd *Durh* Lectr.  
 Fleming, Mary A., MA DipEd Lectr.  
 Bentley, A., BA DipEd Lectr.  
 Smart, K. F., MA DipEd *Oxon.* Lectr.  
 Goldsmid, R. J., BA BD *Manc.*,  
 MA *Cluc.* & *Brun.* Lectr.  
 Rolfe, M. J., BSc DipEd Lectr.  
 Vowles, V. C. D., MA DipEd *Oxon.* Lectr.  
 Taylor, P., BSc PhD *Leeds*, FRIC Lectr.

**English**

Gordon, D. J., MA *Edin.*, PhD Camb.,  
 FRHist Prof.  
 Young, Jean I., MA PhD Camb Reader  
 Fletcher, I. Lectr.  
 Henrich, Mrs. Bridget A., BA Camb.,  
 MA *Lond.* Lectr.  
 Morris, B. R., MA *Oxon.* Lectr.

Bolton, W. F., AB *Bard.*, AM PhD *Prin.* Lectr.  
 Brown, M. D., MA Camb. Lectr.  
 Lucas, W. J., BA Asst. Lectr.  
 Hume, Anthes, BA Camb., PhD *Lond.* Asst. Lectr.

**French**

Lehmairn, A. G., MA DPhil *Oxon* Prof.  
 Bowen, R., DU *Stras.*, BA Sr. Lectr.  
 Dale, Emily H., BA PhD Lectr.  
 Allix, Georgette Lectr.  
 Holland, M. C. J., BA *Lond.* Lectr.  
 Goodwin, Pamela J. L., BA *Lond.* Lectr.  
 Strickland, G. R., MA Camb Lectr.  
 Redfern, W. D., BA Camb. Asst. Lectr.  
 Hunt, Mrs. Antoinette M., L&SL  
 (Phonetics) Sp. Lectr.

1 Asst.

**Geography**

Müller, A. A., DSc *Lond.*, Fellow *Univ.*  
*Coll.*, *Lond.* Prof.  
 Frood, A. M., MA *Lea.* Sr. Lectr.  
 Parry, M., BSc *Lond.*, MSc Lectr.  
 Lucas, G. R., BA *Lea.*, MA Lectr.  
 Wood, P. D., MA *Water.* PhD Lectr.  
 Hardy, J. R., BA Camb. Lectr.  
 Whitlow, J. B., BA PhD Lectr.  
 Large, D. C., BA *Nott.*, MA *Syr* Lectr.

**Geology**

Allen, P., MA Camb., BSc PhD Prof.  
 Walder, Phoebe S., BSc *Lond.* & *F'dg.* Sr. Lectr.  
 Sahly, T. C. F., MA Camb., BSc Lectr.  
 Rose, G. N., DFC, BSc Lectr.  
 Goldring, R., BSc PhD *Brist* Lectr.  
 Butcher, N. E., BSc *Sheff.* Lectr.  
 Allen, J. R. L., BSc *Sheff.* Lectr.  
 Lees, A., BA *N.Staffs.*, PhD Lectr.  
 1 Res. Geologist, 2 Res. Fellows

**German**

Pickering, F. P., BA *Leeds*, PhD *Bres.* Prof.  
 Hamburger, M. P. L., MA *Oxon.* Reader  
 Ievers, S. E., BA *Dub.* Lectr.  
 Reilly, Pamela M. A., MA PhD *N.U.I.* Lectr.  
 Menhennet, A., BA *Oxon.* Lectr.  
 Daffner, G. Lektor  
 1 Asst.

**History, Modern**

Argunell, A., MA DLitt *Manc.*, FRHistS Prof.  
 Dodwell, Barbara, MA *Lond.*, FRHistS Reader  
 Shade, C. F., BA PhD, FRHistS Sr. Lectr.  
 Smith, E. A., MA Camb., FRHistS Lectr.  
 Lambert, M. D., MA *Oxon.* Asst. Lectr.  
 Owen, N. G., BA PhD *Lond.* Asst. Lectr.  
 Bethell, D., BA *Oxon.* Asst. Lectr.

**Horticulture**

Heath, O. V. S., DIC, DSc *Lond.*, FRSc Prof.  
 Barnwell, R., BSc(Hortus) Lectr.



- Vince, Daphne (Mrs. Price),  
BSc(Hortic) *Leeds*, MS *Calif*, PhD Lectr.  
Harris, Elsie M., MS *Conn*, BSc(Hortic) Lectr.  
Harris, G. P., BSc *Leeds*, PhD *Manc* Lectr.  
van Emden, H. F., BSc *Leeds* Lectr.  
Buckley, W. R., MSc *Leeds* Lectr.  
4 Res. Plant Physiologists

**Italian**

- Meneghello, L., Dottorato *Padova*  
Lectr.-in-Charge (Sr. Lectr.)  
Martindale, Ursula F., MA *Cambs.* †Lectr.  
Scott, J. A., MA *Oxon.* Lectr.  
Memigliano, Anna L., BA *Oxon* Lectr.  
Marenco, P. Asst. Lectr.

**Mathematics**

- Rado, R., PhD *Cambs*, DrPhil *Berl* Prof.  
White, P., MA PhD *Cambs.* Sr. Lectr.  
Rees, Mary R., MSc *Leeds*, PhD *Belf.* Lectr.  
Dressel, L. A. G., MA PhD *Cambs* Lectr.  
Parsons, D. H., MA DPhil *Oxon* Lectr.  
Milner, E. C., MSc *Leeds* Lectr.  
Daykin, D. E., MSc PhD Lectr.  
Eastham, M. S. P., MA DPhil *Oxon* Lectr.  
Balnes, M. J., BSc PhD *Leeds* Lectr.  
Pym, J. S., BSc *Birm* Asst. Lectr.

**Microbiology**

- Knight, B. C. J. G., DSc *Leeds* Prof.  
Shattock, P. M., Frances, BSc *Edin*, PhD Reader  
Zatman, L. J., BSc PhD *Leeds* Lectr.  
Keddie, R. M., BSc PhD *Edin* Lectr.  
Charles, H. P., MA *Leeds*, PhD *Manc.* Lectr.  
Billing, Eve, PhD *Manc.*, BSc(Dairying) Lectr.  
Heydeman, M. T., BA *Cambs.* Lectr.  
Park, R. W. A., BSc PhD *Birm.* Lectr.  
Grainger, J. M., BSc *Birm.* Asst. Lectr.

**Music**

- Woodham, R. E., BA DMus *Oxon.*, FRCO Prof.  
Taylor, E., MA DMus *Oxon.* Lectr.  
7 Teachers

**Philosophy**

- Hodges, H. A., MA DPhil *Oxon.* Prof.  
Parkinson, G. H. R., MA DPhil *Oxon.* Lectr.  
Lampel, Clare, BA *Yor.*, MA *Chc.*,  
PhD *Cal.* Asst. Lectr.  
New, C. G., BA *Oxon.* Asst. Lectr.

**Physics**, see also N I R D., below

- Dutchburn, R. W., BSc *Liv*, MA PhD *Cambs.*  
FRS Prof., Hd. of Dept.  
Mitchell, E. W. J., MSc *Sheff.*, PhD *Brist.*  
(Phys. Properties of Materials) Prof.  
Ryder, T. B., MA *Cambs.*, PhD *Leeds*,  
FIP Sr. Lectr.  
Hensch, H. K., BSc PhD Lectr.  
Robinson, K., BSc *Leeds*, PhD *Leeds* &  
*Cambs.* Lectr.

- Power Steele, E. Joyce, BA MSc *Dub* †Lectr.  
Banbury, P. C., MA *Oxon*, PhD Lectr.  
Clark, C. D., BSc PhD Lectr.  
Faulkner, E. A., MA *Oxon*, PhD Lectr.  
Evans, B. L., BSc *Brist.*, PhD *Cambs.* Lectr.  
Evans, T., BSc PhD *Brist.* Lectr.  
Smith, S. D., BSc *Brist.*, PhD Lectr.  
Green, G. W., BSc PhD *Leeds* Lectr.  
Saggett, B., PhD *Zur.* Lectr.  
Harper, P. G., BSc PhD *Birm.* Lectr.  
Lough, R. S., BSc *Leeds* Lectr.  
Tomlin, D. H., BSc PhD *Leeds*  
(Res. Physicist) Reader  
2 Res. Fellows, 6 Res. Physicists

**Physiological Chemistry**

- Tyler, C., DSc *Leeds*, FRIC Prof.  
Grumbleby, F. H., BSc *Leeds*, PhD Sr. Lectr.  
Wild, A., BSc *Leeds*, PhD Lectr.  
Tayles, T. G., MA *Cambs*, PhD Lectr.  
Hassall, K. A., BSc *Leeds* & *R'dg.*, PhD Lectr.  
Balch, D. A., BSc(Agric) PhD Lectr.  
Payne, D., MA *Cambs.* Lectr.  
Stratmann, C. J., BSc PhD *Melb.* Lectr.  
Loken, A. L., BSc Lectr.  
Woodward, J. D., BSc PhD *Birm.* Lectr.  
Harris, P. J., MSc *Nott.* Asst. Lectr.  
Geake, F. H., MSc *Brist.* Hon. Res. Fellow

**Political Economy**

- Campbell, P. W., MA *Oxon.* Prof.  
Budden, E. S., MA DPhil *Oxon.* Sr. Lectr.  
Sainsbury, K. A. F., MA BPhil *Oxon.* Lectr.  
Corley, T. A. B., MA *Oxon* Lectr.  
Cahill, Moya K., LLJ *Belf.* †Lectr.  
Brand, J. A., MA *Aberd.* Asst. Lectr.  
Thomas, D. R., BA BPhil *Oxon* Asst. Lectr.

**Psychology**

- Varnon, Magdalen D., MA ScD *Cambs.*,  
FIPs Prof.  
Elithorn, A., MA MD *Cambs.*, DPM *Leeds*,  
MRCP (Psychopathol.) †Lectr.  
Wallace, G. K., BSc PhD *Str.And.*  
(Physiol. P.) Lectr.  
Davis, R., MA DPhil *Oxon.* Lectr.  
Singer, B. R., BSc *Leeds* Lectr.  
Bernstein, B. B., BSc(*Econ*) *Leeds*  
(Sociol.) †Lectr.  
McGregor, O. R., BSc *Leeds* (Sociol.) †Lectr.

**Veterinary Hygiene**

- Miles, N. P., BSc *Edin.* Lectr.

**Veterinary Science**

- Barron, N. S., BSc *Leeds*, PhD Vet. Surgeon

**Zoology**

- Graham, A., MA BSc *Edin.*, DSc *Leeds* Prof.  
Fretter, Vera, PhD DSc *Leeds* Reader  
Crichton, M. I., BSc *Edin.*, PhD Sr. Lectr.  
Mann, K. H., BSc *Leeds*, PhD Lectr.

# READING

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Williams, G., BSc  
 Lectr. Hardy, M. G., BA Oxon.  
 Bryce, D., BSc Manc., PhD Sheff. Asst. Lectr.  
 Johnson, Elizabeth (Mrs. Moore), BSc  
 PhD Sheff. Asst. Lectr.  
 White, Kathleen M., MSc PhD  
 Hon. Res. Fellow

Budd, R. T., BSc Birm.  
 Hoyer, J. B., MA Camb.  
 6 Assts.

## Feeding and Metabolism

Balch, C. C., BSc(Agric) PhD  
 Roy, J. H. B., MA Camb., PhD  
 5 Assts.

Head

## NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING (see also p. 1282)

Prof. R. G. Baskett, OBE, MSc, FRIC

Dir.

### Bacteriology

Cuthbert, W. A., MSc Leeds  
 Neave, F. K., BSA Tor  
 Sharpe, M. Elizabeth, BSc Lond., PhD  
 Garvie, Ellen I., BSc PhD Lond.  
 1 Hon. Res. Fellow, 13 Assts.

Head

### Chemical Microbiology

Berridge, N. J., DSc Birm.  
 Mahbutt, L. A., BSc Lond., PhD Edin  
 Chesterton, G. C., BSc PhD  
 1 Asst

Head

### Chemistry

Rowland, S. J., BSc(Agric) PhD, FRIC  
 Aschaffenburg, R., PhD Cologne  
 6 Assts

Head

### Dairy (Experimental)

Chapman, Helen R.  
 2 Assts.

Head

### Dairy Husbandry

Foot, A. S., MSc  
 Brando, R., DSc  
 Dodd, F. H., BSc(Agric) PhD  
 Mitchell, K. G., BSc(Agric) PhD  
 Lane, C., BSc(Agric)  
 Murdoch, J. C., BSc Glas., PhD Edin.  
 9 Assts.

Head

### Engineering

Hall, H. S., BSc(Agric)  
 Thiel, C. C., BSc(Agric) W. Aust., PhD  
 Burton, H., BEng Sheff., MSc  
 Suffolk, S. F., BSc Lond.

Head

### Nutrition

Kon, S. K., PhD Warsaw, DSc, FRIC  
 Henry, Kathleen M., BSc Lond. & N.U.I.,  
 PhD Aberd., FRIC  
 Thompson, S. Y., DSc  
 Porter, J. W. G., MA PhD Camb.  
 Goodwin, Mrs. Marie E., PhD  
 Harrison, G. F.  
 Ford, J. E., BSc Leeds, PhD  
 Gregory, Margaret E., MSc Manc., PhD  
 Fisher, L. R., BSc PhD Lond.  
 1 Hon. Res. Fellow, 1 Hon. Res. Asst.,  
 14 Assts.

Head

### Physics

Blair, G. W. S., MA Oxon., DSc Lond.,  
 FRIC, FIP  
 Glover, F. A., BSc Lond.  
 Prentice, J. H., BSc Lond.  
 Phipps, L. W., BSc Lond.  
 4 Assts.

Head

### Physiology

Folley, S. J., DSc Manc., FRIC  
 Cowie, A. T., BSc Edin., PhD  
 Benson, G. K., BSc Leu., PhD  
 Pope, G. S., DPhil Oxon., BSc  
 1 Hon. Res. Fellow, 12 Assts.

Head

### Radiochemistry

Glascock, R. F., BSc PhD Lond.  
 7 Assts.

Head

### Statistics

2 Assts.

Head

## UNIVERSITY EXTENSION

14 Tutors†

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrars: A. A. H. Butters, MA Oxon.;  
 H. E. Bell, MA Sheff. Accountant: W. G.  
 Lowe. Keeper, Museum of English Rural Life:  
 C. A. Jewell, BSc. Sec., Fac. of Agric.: J. W.  
 Bee, MA Camb. Sec., Fac. of Sci.: T. C. F.  
 Sibby, MA Camb., BSc. Sec., Fac. of Letters:  
 K. R. Glendish, BA Manc. Sec., Appts. Cttee.:  
 Mrs. Elizabeth Goodwin, MA Oxon. Sec., Inst.

of Educn.: W. B. Crouch, BA Belf. Asst.  
 Bursar: R. G. Eaton, BA Oxon. Bldg. Officer:  
 A. Barrow. Physicist in charge of Radio Tracer  
 Unit & Univ. Radiation Protection Officer: D. H.  
 Tomlin, DIC, BSc PhD Lond.

WARDENS OF HALLS OF RESIDENCE J. S. L.  
 Waldie, BSc Edin. (Wentgate Hall); D. C. Large,

BA. Nat., MA. Syr. (St. Patrick's Hall); V. Mallinson, MA Leeds (Whiteknights Park House); Ursula F. Mierndale, MA Camb. (St. Andrew's Hall); R. Joyce Pown Steele, BA MSc Dub. (Wessex Hall); Moya K. Cahill, LLB Belf. (St.

George's Hall); Pamela J. L. Goodwin, BA Lond. (Mansfield Hall); E. V. Watson, BSc PhD Edu., Margaret D. Fuller, MA (Asst. Warden Margaret I. W. Benjamin, BSc (Dairying)) (St. David's Hall).

## CONSTITUENT INSTITUTION

NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, Shinfield, nr. Reading (tel. Reading 83103), establd. by Ministry of Agric. & Fisheries in 1912, forms part of univ. It is governed by a bd. consisting of reps. of Ministries of Agric. and

Health, Royal Agric. Soc. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. Dir.—Prof. R. G. Baskett, OBE, MSc, FRIC. See also p. 1281.

## GENERAL INFORMATION

A univ. extension coll. was opened at Reading in 1892; it was based upon the local Oxford Univ. extension centre and the local schs. of sci. and art, and derived its first impetus largely from Christ Church, Oxford. In 1902 it established a claim to a state grant as a univ. coll. In 1904 and 1905 it received endowments of land and money from the Palmer family. Wantage Hall, endowed by Lady Wantage, was built in 1908 as a residence for men students, the declined policy of the council being to make residence in a hall the rule and not the exception. An endowment fund of £200,000 was subscribed in 1911 by the benefactors already mentioned. The univ. was established by royal charter on March 17, 1926.

Various developments call for special notice. One is the establishment, in connexion with the coll. and univ., of the Natl. Inst. for Res. in Dairying. Another is the bldg. and endowment of the library, the costs of which were defrayed by Mr. Alfred Palmer and members of his family; the bldg. constitutes a memorial to the late Rt. Hon. George William Palmer, one of the chief benefactors of the coll. Residential accomm. has been increased, and the univ. now has 7 halls of residence, 3 for men and 4 for women. Further additions are being planned.

**CONSTITUTION.** The supreme governing body of the univ. is the court, presided over by the chancellor. The executive body is the council, which is composed of academic and lay members, and elects its own chairman. The senate, which consists of all profs. of the univ. and 3 elected members of the academic staff, regulates academic matters; the vice-chancellor is chairman. Facs. are controlled by their own bds., and schs. by their own citices, subd. to the authority of senate and council.

**INCOME** (excl. Natl. Inst. for Res. in Dairying) (1960–61). Total income, £590,183 (Treasury grant, 78·2 per cent; fees, 10·6 per cent; grants from local authorities, 2·1 per cent; other sources, 9·1 per cent).

**FACULTIES AND DEANS.** Agric., Prof. E. L. Crossley (dairying); Letters, Prof. A. G. Lehmann (French), sci., Prof. A. Graham (zool.).

**SCHOOLS.** Art, music.

**UNIVERSITY PREMISES.** The univ. has steadily grown. Because of the inadequacy of its London Rd. site, it acquired in 1947 the freehold of the Whiteknights park estate of nearly 300 acres of parkland (about one mile from centre of Reading), to which it is hoped ultimately to transfer the univ. At present 3 new bldgs. in the park are in use: the fac. of letters, opened in 1957; the dept. of phys., opened in 1960 by Sir George Thomson and named the J. J. Thomson Physical Lab.; and the res. lab. in sedimentol. (pt. of dept. of geol.).

**LIBRARY.** 177,000 vols., incl. Overstone collection (7300 vols.) of books on pol. econ. (publd. before 1850), English and French thought during 18th cent., topography (especially Northamptonshire), and Cole libr. (8000 vols.) of early books on med. and on hist. of zool.; 27,000 pamphlets. 1600 periodicals received.

**LABORATORIES, FARMS, ETC.** Bot., chem., geol., mech., microbiol., phys., physiological chem., psychol., zool. Fine art studios. Sch. of music. Agric. machinery hall 3 farms (400, 200 and 110 acres) and hortic. stn. (80 acres).

**MUSEUMS.** Zool., hist., archaeol., English rural life.

**INSTITUTE OF EDUCATION.** Establd. in 1948; became a univ. inst. in 1955. *Constituent Institutions:* univ. dept. of educn.; univ. dept. of fine art; Bishop Otter Memorial Coll., Chichester; Easthamptond Park Coll.

**ADMISSION.** See Appendix III.

**FIRST DEGREE.** BA—hons. courses in philos., psychol., classics, Greek, Latin, Engl., mod. hist., pol. econ., geog., matha., philos. & Engl. lit., philos. & German, Greek & Engl. lit., Latin & Engl. lit., econ. & psychol., econ. & soc. philos., music, music & Engl. lit., music & German—3 yrs.; hons. courses in \*French, \*German, \*Italian, \*Italian & French, \*French & Italian, \*French & German, \*German & French, \*Latin & French, fine art—4 yrs. (\*=incl. 1 yr. abroad).

Gen courses in 3 subjs.—3 yrs; hone may be awarded in final exam. (general)

BMus (entry via BA hone music course—4 yrs)

BSc (fac. of sci)—special courses in maths, phys., chem., bot., zool., geog., geol., microbiol., physiological chem., psychol.—1 yr normally taken after gen. course (3 yrs) in 3 of above subjs.

From Oct. 1963 all courses, either special courses in one of above subjs. (with subseq. subseq. level maths.) or general courses in 3 of above subjs., will extend over 1 yr. Hone may be obtained in either gen. or sp. course.

BSc (fac. of agric.)—poss courses in agric., dairying, hortie.—3 yrs., hone courses in agric., sci., hortie. acc., agric., dairying, hortie., agric. bot., hortie. bot., agric. chem., agric. econ.—3 yrs (4 yrs if candidate not given total exemption from inter. exam)

HIGHER DEGREE. MA, MSc (fac. of sci and agric.)—2 yrs from 1st degree; MA (fac. of letters)—2 yrs' course of instruct. in either mediev. symbolism & iconography or the gothic revival in Europe, 1750–1830; MAgRSc (fac. of agric.)—2 yrs' course of instruct. in either agric. (in one of 5 sections), avian physiol. & nutrition, soil sci., or agric. econ., award by exam., MEd—either 2 yrs (1 yr full-time, 1 yr pt.-time) or 3 yrs (pt.-time), a course of instruct. for grad. serving teachers holding DipEd or cert. in educ. from univ. in Gt. Britain with at least a 2 yrs' teaching experience, courses begin in Oct. each yr. PhD—3 yrs. from 1st degree (all facs.). All open to grads. of other univs. D.Lit., DSc

The univ. does not award EXTERNAL DEGREE

DIPLOMA 1 yr. (on 2 yrs pt.-time)—rural educ. (for serving teachers), and 1 yr (postgrad)—agric. econ., educ., technical phys.

RESEARCH. Res. facilities available in all depts. of univ. Res. lab. in sedimentol. (pt. of dept. of geol.) has new bldg. with wide range of res. facilities. Natl. Inst. for Res. in Dairying undertakes res. into mod. scientific aspects of dairying problems.

A res. bd. administers funds entrusted to it for res. purposes, issues an annual record and report, and publishes *Abstracts of Theses* annually.

FEE. Annual composition fee (covering registration, matric., tuition, exam. and graduation, but not students' union sub. and various minor fees) Bachelor's degrees: BA (other than music), £60, BA in music, £75; BSc (fac. of sci., fac. of agric.), £82; 10s., BSc (agric. econ.), £75. Higher degrees. PhD, MSc (without lab. facilities), £60, PhD, MSc (with lab. facilities), £75, MA, £60; MEd, £60 (full-time), £40 (pt.-time); MAgRSc, £75. DipIn. fine art, £60, art teacher's dipl., £75, educ. (postgrad), £82; 10s., technical phys. (postgrad), £82; 10s.; landscape archit., £60, agric. econ. (postgrad), £82; 10s. Students' union sub. (compulsory),

£6; 6s. p.a. Students from overseas may be required to pay a deposit of £45 on admission.

EXPENSES. Total average necessary expenses for academic yr. (excl. travelling, clothing and personal laundry) about £280, namely: (i) composition fee and cap and gown, £36 for a degree student, (ii) maintenance, incl. board and lodging in halls or lodgings and sanatorium fee, max. for 30 weeks about £178 for either man or woman student; (iii) personal, incl. sub. to union (£6; 6s. p.a.), and cost of books and stationery, widely variable, say £18 p.a.

ACADEMIC YEAR. Oct.–early July: 3 terms, each 10 wks., first beginning on 1st Friday in Oct. Vac. of 4 wks. at Christmas and 5 wks. at Easter.

ADULT EDUCATION. Tutorial classes held in conjunction with W.E.A.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 910.

APPOINTMENTS COMMITTEE. Provides information and advice about posts.

GRADUATES' ASSOCIATION. Old students' assoc. meets annually at univ. at Whinsum.

STUDENT RESIDENCES. All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a univ. hall of residence. (For wardens, see 'Admin. and Other Staff', above, for fees, see 'Expenses', above) For men: Wantage Hall, Upper Redlands Rd., 137 students (tel.: R'dg. 81198); St. Patrick's Hall, Northcourt Ave., 204 students (tel.: R'dg. 81583); Whiteknights Park House, 45 students (tel.: R'dg. 81782). For women: St. Andrew's Hall, Redlands Rd., 142 students (tel.: R'dg. 82269); Wessex Hall, Redlands Rd., 104 students (tel.: R'dg. 82266); St. George's Hall, Elmhurst Rd., 66 students (tel.: R'dg. 81558); Macafield Hall, Kendrick Rd., 135 students (tel.: R'dg. 81431). Full-time day students living in approved lodgings, or at home in or near Reading, are associated in St. David's Hall, a non-residential club.

STUDENT ORGANIZATIONS. Students' union and representative council.

STUDENT ATHLETIC FACILITIES. Gymnasium, athletic grounds; squash courts; rowing facilities.

PUBLICATIONS. *Colander* (Sept.), 3s.; *University Gazette*; *General Prospectus* (illustrated); *Prospectus* (degree and dipl. courses, fac. of letters, fac. of sci., fac. of agric., incl. landscape archit., educ., fine art, music); *Shell* (student newspaper); *Students' Union Handbook*, *Tamers* (student periodical); *Making a University: an Account of the University Movement at Reading*, by W. M. Childs (Dent, 1933); *A History of Whiteknights*, by E. Smith (Museum of Engl. Rural Life, Univ. of Reading, 1957).

## THE YEAR 1961

RETIREMENTS. Clara A. Murray (educn.)

RESIGNATIONS. Dr D. J. Bruce (psychol.), Dr P. A. M. Clemoes (Engl.); Jean Coulthard (philos.), T. R. M. Creighton (warden, St. Patrick's Hall), apptd. to chair of Engl., Fourah Bay Coll., U.C. of Sierra Leone; Dr E. R. P. W. Crossman (psychol.); Dr R. E. Edwards (maths); Dr A. B. Lichard (phys); Dr J. McNeill (agric. bot.); Dr Muriel E. Rhodes (microbiol.); Mrs Janet E. Seaton (microbiol.).

DEATHS. Emer. Prof E. H. Neville (prof. of maths, 1919-54), Emer. Prof. C. H. O'Donoghue (prof. of zool., 1939-52); Emer. Prof A. W. P. Walters (lectr. in educn. and subsequently in psychol., 1908-43, prof. of psychol., 1943-50); Helen S. Kermode (lectr. in educn. from 1938 and warden, Mansfield Hall, 1945-53, asst. sec. and subsequently sec. of appts. offic., 1943-57).

## Statistics

## STUDENTS: NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time		Part-Time*
Men	930	46	
Women	773	61	
Total	1705	107	

Distribution by Faculties. Agric., 323; arts, 912; sci., 470. Total, 1705.

Included in the figures above are:—

Postgraduate students, 330.

New admissions, 651.

Students from other countries, 156. (Countries from which largest numbers came: Nigeria, 25; Germany, 12; India, 10; U.S.A., 9)

DEGREES AWARDED (1960-61). Agric. & hortic.: BSc, 66; MSc, 3; MAgrSc, 2; PhD, 9. Arts: BA, 159; MA, 2; PhD, 2. Sci.: BSc, 94; MSc, 4; PhD, 13.

DIPLOMAS AWARDED (1960-61). Fine art, 1. Postgrad. agric., 1; tech. phys., 2; educn., 74.

\* Includes evening students

# UNIVERSITY OF SHEFFIELD\*

Founded 1905, previously University College, established 1897 by amalgamation of  
Firth College (1879), Sheffield Medical School (1828), and Technical School (1886)

Postal Address: Sheffield, 10, England  
Cables and Telegrams: University Sheffield  
Telephone: Sheffield 78555

## VICTOR—H.M. THE QUEEN

CHANCELLOR—The Rt Hon. R. A. BUTLER, CH, MA Camb., Hon. DCL Oxon., Hon. LLD Not.,  
Brit., St.And., Camb. & Sheff.

PRO-CHANCELLOR—G. YOUNG, JP, Hon. LLD, W H OLIVIER, TD, MA Oxon., FCA

VICE-CHANCELLOR—J. M. WHITTAKER, MA Camb., DSc Edu., FRSE

PRO-VICE-CHANCELLOR—PROFESSOR H. W. LAWTON, MA Wales, DU Paris; Professor D H SMITH,  
MSc MD Belf., PhD Lond

TREASURER—A. H. CONNELL, MA LLB

REGISTRAR—A. W. CHAPMAN, OBE, DSc Lond, FRIC

BURGER—R. M. URQUHART, MA St.And.

LEURAHAN—J. E. TOLSON, BA Leeds, MA Liv.

## TEACHING STAFF

[†=Part-Time]

### Accountancy and Financial Administration

Whittington-Smith, C. A., LL.M., FCA

Sr. Lectr. in charge of Dept.

Hicks, L., BCom Binst., FCA Lectr.

Lewson, G. H., MA (Econ) Durh. Lectr.

Downing, F., FCA (Auditing) †Lectr.

Tranter, A. V., BSc (Econ) PhD Lond.

(Taxation) †Lectr.

### Anatomy

..... (Human Biol & A) A. Jackson Prof.

Martin, B. F., BSc MD Wales

Reader, Actg. Hd. of Dept.

King, T. S., MB ChB Lth. Sr. Lectr.

Harris, P. F., MB ChB Birm. Lectr.

Haigh, G., MB ChB Lectr.

Bradshaw, R. B., MB ChB Demr.

Ballock, J., MB ChB Demr.

Hudson, J. M., MB ChB Demr.

Lloyd, G. J., MB ChB Demr.

Sood, B. K., MB ChB Demr.

Williams, D. M. L. Demr.

Hoppe, L., MB ChB Demr.

Thomas, P. R. S., MB ChB Demr.

Jones, C. D. P., MBE, MB BS Lond.,

FRCS (Appl. A.) †Lectr.

Wulke, J., MSc MB ChB, FFR

(Radiological A.) †Hon. Lectr.

### Architecture

Needham, J., DipArch Leeds, MA, FRIBA Prof.

Page, J. K., BA Camb. (Bldg. Sci.) Prof.

Drought, A. B., BArch Liv., MArch Mus. Sr. Lectr.

Daykin, A., BA Lectr.

Wragg, R. B., MA Lectr.

Wilson, J. Lectr.

Jenkins, J. M., DipArch Wales, BA Lectr.

Jackman, V., BArch Liv. Lectr.

Heaf, E. B., DipArch Lth. Lectr.

Claridge, R. J. Lectr.

Goodman, A., DipArch Not. Lectr.

Tattersall, G. H., BSc PhD Leeds

(Bldg. Sci.) Lectr.

Tunley, A. N., BArch Liv. Lectr.

Smith, A. V., DipArch Lectr.

Jenkins, J. M. B., MA Lectr.

(Professl. Practice) †Lectr.

Clements, M. S., BEng

(Adv. Construcn.) †Lectr.

Wilby, C. B., BSc PhD Leeds

(Adv. Construcn.) †Lectr.

2 Instrs.

### Bacteriology, see Medicine

### Biblical History and Literature

Guilding, Aileen E., MA DPhil Oxon. Prof.

Payne, D. F., MA Glas., BA Lectr.

Dunstone, A. S., MA BD Oxon. Lectr.

Arnold, Rev J. R., MA Camb.

Sir Henry Stephenson Res. Fellow

\* Member of the Association of Universities of the British Commonwealth

**Biochemistry, see Medicine****Biology, see Bot. and Zool****Botany**

- Clapham, A. R., MA PhD Camb, FRS Prof.  
 Beewell, J. G., DSc Lond. (Plant Physiol) Reader  
 Webster, J., BSc PhD Lond. Si Lectr.  
 Booth, A., BSc PhD Manc Lectr.  
 Woolhouse, H. W., BSc Rdg, PhD Adel Lectr.  
 Anderson, D. J., BSc Nott, PhD Water Asst Lectr.

**Business Studies**

- Hague, D. C., MCom Birm  
 (Appl Econ) Newton Chambers Prof  
 Kempner, T., BSc(Econ) Lond. Lectr.  
 Howe, M., BCom Leeds, PhD Lectr.  
 Henley, J. M., BSc(Econ) Lond. Res/Teaching Fellow

**Chemistry**

- Haworth, R. D., BSc Oxon, DSc PhD Manc, FRS, FRIC Firth Prof, Hd of Dept  
 Potter, G., BSc Leeds, PhD Scd Camb, FRIC, FRS (Phys. C.) Prof  
 Stevens, T. S., BSc Glas, DPhil Oxon. (Org. C.) Reader  
 Lawrence, A. S. C., ScD PhD Camb, FRIC (Colloid C.) Reader  
 Lamberton, A. H., BSc PhD Glas Sr. Lectr.  
 Tyrell, H. J. V., MA BSc Oxon. Sr Lectr.  
 Wilkins, R. G., DSc PhD Lond. (on leave) Sr Lectr.  
 McKenna, J., MSc PhD N U.I. Sr Lectr.  
 Wyatt, P. A. H., BSc PhD Wales (on leave) Sr Lectr.  
 Leister, J. H. A., BSc PhD Lond Lectr.  
 Hendridge, J. B., BSc PhD Edin. Lectr.  
 Tedder, J. M., MA Camb., PhD Birm. Lectr.  
 Smith, A. J., BSc PhD Lond. Lectr.  
 Finan, P. I. A., MSc N U.I., PhD Belf Lectr.  
 Stevens, B., MA DPhil Oxon. Lectr.  
 Haslam, E., BSc PhD Lectr.  
 Kettle, S. F. A., BSc Leeds, PhD Camb. Lectr.  
 Perkins, P. G., BSc PhD Nott. Lectr.  
 Jones, D. N., BSc PhD Wales Lectr.  
 Dixon, R. N., BSc Lond., PhD Camb. Lectr.  
 Jennings, K. R., BA DPhil Oxon. Lectr.  
 Brettell, R., BSc MA DPhil Oxon. Lectr.  
 Bruckelhuys, B., BSc MA DPhil Oxon. Lectr.  
 Atherton, N. M., BSc PhD Birm. Lectr.  
 Basco, N., BSc PhD Birm. Temp. Lectr.  
 Jones, R. A. Y., BA Camb. Asst Lectr.  
 Jones, J. G., BA Oxon Temp. Asst Lectr.  
 Murrell, J. N., BSc Lond., PhD Camb. Hon Lectr.

- Osborne, A. D., BSc PhD Lio I.C.I. Res. Fellow  
 Stoylo, J. A. R., BSc Belf., FRIC Supt., Labs.

**Child Health, see Medicine****Classics**

- Crossland, R. A., MA Camb. & Yale (Greek) Prof.

- Laughton, E., MA Oxon (Latin) Futh Prof  
 Hulton, A. O., MA Oxon Lectr.  
 Molyneux, J. H., MA Camb Lectr.  
 Boddington, Ann, BA Oxon Lectr.  
 Ranken, H. D., BA Dub. Lectr.  
 Mosley, D. J., BA Dub. & Camb Lectr.

**Dental Surgery, see below****Economics**

- Gilbert, J. C., BCom Lond Prof  
 Pollard, S., BSc(Econ) PhD Lond. (E. Hist.) Sr. Lectr.  
 Thornhill, W., MSc(Econ) Lond. (Pol. Theory & Instrns.) Sr. Lectr.  
 McCormick, B. J., MA Manc., BA Lectr.  
 Hawkins, E. K., BSc(Econ) Lond., BPhil Oxon. Lectr.  
 Bowden, P. J., BA PhD Leeds (E. Hist.) Lectr.  
 Walkland, S. A., MA St And. (Pol. Theory & Instrns.) Lectr.  
 Hayward, J. E. S., BSc(Econ) PhD Lond. (Pol. Theory & Instrns.) Lectr.  
 Livingstone, I., MA Yale, BA (Econ Stats.) Lectr.  
 Bates, R. W., BCom Birm. Asst. Lectr.

**Education**

- Annytage, W. H. G., MA Camb Prof.  
 Halloran, J. H., MA Leeds Sr. Lectr.  
 Williams, Eirian M., BSc Wales Sr. Lectr.  
 Brown, Nora M., MA Camb. Lectr.  
 Jay, L. J., MA Birm. Lectr.  
 Austwick, K., MSc Lectr.  
 Mowat, Dorothea M., BSc PhD Edin. Lectr.  
 Batho, G. R., MA Lond. Lectr.  
 Pinion, F. B., MA Camb. Lectr.  
 Shaples, H., BA Dub. (on leave) Asst. Lectr.  
 Popperton, Pamela K., BA Asst. Lectr.  
 Campbell, J. F., BA Lee Temp. Lectr.  
 Snook, W. M., MA Camb Temp. Lectr.  
 Doss, Ruth E. L., BA Camb Temp. Lectr.  
 s Supervisors

**Engineering, see below****English Language and Literature**

- Empeon, W., MA Camb. (E. Lit.) Prof.  
 Wilson, R. M., MA Leeds (E. Lang.) Prof.  
 Berry, F., BA Lond., MA Ede. (E. Lit.) Sr. Lectr.  
 Scott, P. S., MA MLitt Camb. (E. Lang.) Sr. Lectr.  
 Roberts, M. A. M., MA Camb. (E. Lit.) Lectr.  
 Mackerness, E. D., MA Camb., PhD Manc. (E. Lit.) Lectr.  
 Heywood, C., MA BLitt Oxon., BA Stell. (E. Lit.) Lectr.  
 Roper, D. S., BA Dub. & BLitt Oxon. (E. Lit.) Lectr.  
 Southall, R. G. T., BA N. Staffs., PhD Birm. (E. Lit.) Asst. Lectr.  
 Corner, Rosalie R., BA Oxon (E. Lang.) Asst. Lectr.

## French

Lawton, H. W., MA Wales, DUParis	Prof.
Lyons, W. H., BA PhD Dub.	Sr. Lectr.
Shaw, Margaret, BA Lond., DUParis	Lectr.
Blaess, Madeleine, BA Leeds, L&L Paris	Lectr.
Francis, K. H., BA PhD Lond.	Lectr.
Collins, S. J., BA PhD Leeds	Lectr.
Short, J. P., BA Dub.	Lectr.
Juden, B. V., MA Manc.	Lectr.
Ginn, L. H., BA Durh.	Asst. Lectr.
Wimbor, J. S., BA Birm.	Asst. Lectr.
Eon, R. P., L&L Paris	Lecturor
Sezeng, Montague, L&L Stras	Lecturor
Avshal, Marie J. M., L&L Lille	Lecturor
Lehot, Ginette M. J., L&L Cuen	Lecturor

## Fuel Technology, not Engineering, below

## Genetics

Roper, J. A., BSc PhD	Prof.
Blank, C. E., BSc MB BCh Wales,	
PhD Lond.	(Med. G.) Lectr.
Dansford, F. I. N., PhD	
(Blood Groups)	Hon. Lectr.
Woods, R. A., BA Oxon	Asst. Lectr.
J. Res. Workers	

## Geography

Fisher, C. A., MA Camb.	Prof., Hd. of Dept
Garnett, Alice, BA PhD Lond.	
(Phys. Geog.)	Prof.
Maxwell, I. S., MA Camb.	Sr. Lectr.
Hunt, A. J., BA Lond.	Sr. Lectr.
Savigner, R. A. G., BA Lond.	(on leave) Lectr.
Stibbons, J. L. H., MA BSc Oxon	Lectr.
Straw, A., BA Nott.	Lectr.
Lewis, G. M., MSc	(on leave) Lectr.
Gibbe, D. B., BA Camb.	Lectr.
Young, A., MA Camb., PhD	Temp. Lectr.
Coates, B. E., MA Leeds	Asst. Lectr.
Barnett, E. C., BSc	Temp. Asst. Lectr.
Doorekamp, J. C., BSc	Jr. Res. Fellow
Douglas, J. N. H., BA Belf.	Jr. Res. Fellow
Wilkes, J. Margaret, BA Lond.,	
MA Leic.	Map-Custodian, Librarian

## Geology

Moore, L. R., DSc PhD Birm., FGS	Sorby Prof.
Downes, C., BSc Glas., PhD, FGS	Sr. Lectr.
Wilkinson, P., BSc Lond., FGS	Lectr.
Humphries, D. W., BSc PhD Lond., FGS	Lectr.
Curall, A. E., MA DPhil Oxon., FGS	Lectr.
Lovell, L. G., BSc PhD, FGS	Lectr.
Brown, P. E., BSc PhD Manc., FGS	Lectr.
Wagner, R. H., Geol. Eng. Ley	Lectr.
Neves, R., BSc PhD, FGS	Lectr.
Sullivan, H. J., BSc PhD, FGS	Lectr.
J. Res. Asst.	

## German

Meinhard, W. F., MA Erlan.	Prof.
Yudi, W. E., MA Abert. & Lond.	Sr. Lectr.
Kolisko, Gertraud, DrPhil Vienna	Lectr.
Hodgson, P. Jane, BA Lond.	Asst. Lectr.

Bird, G. C., BA Lond.  
Schmidt-Weber, Monika

Tutor  
Lektorin

## Glass Technology

Douglas, R. W., DSc Lond., FIP	Prof.
Isard, J. O., MA Camb., BSc Lond.	Lectr.
Sykes, R. F. R., BSc BScTech	Lectr.
Cable, M., BScTech PhD	Lectr.
Owen, A. E., PhD	Lectr.
Purks, S., BSc PhD Lond.	Lectr.
Perkin, M., MSc	Lectr.
Bates, T., BSc Lond.	Owens-Illinois Res. Fellow

## History

Potter, G. R., MA PhD Camb., FSA	
(Mediev. H.)	Prof., Hd. of Dept
Hopper, R. J., BA Wales, PhD Camb.,	
FSA	(Anc. H.) Prof.
Haley, K. H. D., MA Blett Oxon	(Mod. H.) Prof.
Tyles, J. E., MA Oxon & Sheff.	(Mod. H.) Reader
Carr, W., BA Birm., PhD	
(Mediev. & Mod. H.)	Lectr.
Johnston, Edith M., MA PhD Str. And.	
(on leave) (Mediev. & Mod. H.)	Lectr.
Boddington, Ann, BA Oxon.	(Anc. H.) Lectr.
Mosley, D. J., BA Durh. & Camb.	
(Anc. H.)	Lectr.
Armstrong, Frances, BA Smith, MA	
PhD Lond.	
(Mediev. & Mod. H.)	Asst. Lectr.
Jeffs, R. M., BA DPhil Oxon.	Asst. Lectr.
Sampson, J. M., MA Str. And.	Asst. Lectr.

## Law

Marshall, O. R., MA Camb., PhD Lond.	Prof.
Wood, J. C., LL.M. Manc.	Sr. Lectr.
Fridman, G. H. L., BCL MA Oxon.,	
LL.M. And.	Sr. Lectr.
Patchett, K. W., LL.M. Lond.	(on leave) Lectr.
Rideout, R. W., LL.B. PhD Lond.	Lectr.
Battersby, G., BA Oxon	Lectr.
McLenn, J. D., BA BCL Oxon.	Asst. Lectr.
Green, N. A., Maryan, BA Camb.	Asst. Lectr.
Gnodo, M. A., LL.B.	Lectr.
Dunn, F. A. J., MA LL.B. Camb.	Lectr.

## Mathematics

Northcott, D. G., MA PhD Camb., FRS	
(Pure M.)	Town Trust Prof.
Allen, D. N., de G., MA Camb.	(Appl. M.) Prof.
Minsky, L., MSc Lond., PhD	(Pure M.) Reader
Ruston, A. F., MA PhD Camb.	
(Pure M.)	Sr. Lectr.
Burkall, H., MA Camb., PhD	
(Pure M.)	Sr. Lectr.
Cox, R. R. S., MA Camb.	(Appl. M.) Sr. Lectr.
Blundell, P. H., MA Camb.	
(Appl. M.)	Sr. Lectr.
Dennis, S. C. R., BSc PhD Lond.	
(Appl. M.)	Sr. Lectr.



Farahat, H. K., BSc PhD *Wales* (Pure M.) Lectr.  
Lecturer, G., BSc Lond, MSc R'dy

Douglas, A. J., BA Oxon (Pure M.) Lectr.  
Dean, H. D., MSc PhD *Belf.* (Appl. M.) Lectr.  
Wardle, S., BSc PhD Lond. (Appl. M.) Lectr.  
Bourne, D. E., BSc PhD (Appl. M.) Lectr.  
Coadwick, P., BSc Manc., PhD Camb (Appl. M.) Lectr.

Barley, D. M., BSc PhD Lond (Appl. M.) Lectr.  
Hewson-Browne, R. C., BSc PhD Lond (Appl. M.) Lectr.

Hutson, V. C. L., BA PhD Camb. (Appl. M.) Lectr.

Maddison, R. N., BA Camb, BSc Oxon (Appl. M.) Lectr.

Knight, C. J., BA Camb, PhD Manc. (Pure M.) Asst. Lectr.

Hewkins, Faith M., MA DPhil Oxon (Pure M.) Asst. Lectr.

Cruidas, T. B., BSc Lin (Pure M.) Asst. Lectr.

Windle, D. W., BSc PhD (Appl. M.) Asst. Lectr.

Absen, H., MA Camb, BSc Lond, MSc (Appl. M.) Temp. Tutor

Powdrell, B., BSc (Appl. M.) Jr. Res. Fellow

#### Medicine, see below

#### Metallurgy

Quarrell, A. G., DSc PhD Lond., FIP, FIM Prof., Hd. of Dept.

Honeycombe, R. W. K., DSc Metall., PhD Camb, FIM (Phys. M.) Prof.

Bilby, R. A., BA Camb., PhD *Bern.* (Theoret. M.) Prof.

Maddocks, W. R., BSc *Wales*, PhD Glas. (Production M.) Sr. Lectr.

Protheroe, H. T., BSc *Wales*, PhD (Foundry M.) Sr. Lectr.

Havenhand, D., BSc Lectr.

Woodhead, J. H., BMet Lectr.

Entwistle, A. R., MA PhD Camb. Lectr.

Argent, B. B., BMet PhD Lectr.

Tegart, W. J. M., MSc Metall., PhD Lectr.

Haworth, C. W., MA DPhil Oxon. Lectr.

West, J. M., MA PhD Camb. Lectr.

Ball, C. J., BA PhD Camb. Lectr.

Mitchell, A., BA Oxon Lectr.

Kirkwood, D. H., BA PhD Camb Lectr.

Sellars, C. M., BMet PhD Lectr.

Beech, J., BMet United Steel Cos. Res. Fellow

Warrington, D. H., MA PhD Camb. J. H. Andrew Res. Fellow

Whiteman, J. A., BSc *Birm.*, MMet C. H. Deach Res. Fellow

Parrell, K., MMet Ironmongers Co. Res. Fellow

Hume-Rothery, Prof. W., OBE, MA DSc Oxon., FRS Hon. Lectr.

Pearson, J., MSc PhD Lond., FRIC Hon. Lectr.

Wastreich, J. G., DSc(Eng) Lond., FIM Hon. Lectr.

Microbiology, see Medicine, below

Mining, see Engineering, below

#### Musico

Dean, J. S., MA MusBac *Edin.*, FTCL, James Rosseter Hoyie Prof.

Ballwint, R. F. T., MA BMus DPhil Oxon. Lectr.

Lord, P. J., MA Camb., BMus Manc. & Camb. Lectr.

Linstead, G. F., DMus *Durk.*, FRCO, FTCL, †Asst. Lectr.

Stone, D. C., MA Camb †Tutor

#### Philosophy

Cousin, D. R., BA Oxon. Prof.

Glasgow, W. D., BA *Dub.* Lectr.

Meller, W. W., BA BPhil Oxon Lectr.

#### Physics

Suckaneth, W., DSc *Leeds*, FRS, FIP Prof.

March, N. H., BSc PhD Lond Prof., Actg. Hd. of Dept.

Kaiser, T. R., MSc Metall., DSc Manc., DPhil Oxon., FIP Reader

Tebble, R. S., BSc *Durk.*, PhD *Leeds*, FIP Sr. Lectr.

Lee, E. W., BSc Lond., PhD *Not.* Sr. Lectr.

Crangle, J., BSc PhD, FIP Sr. Lectr.

Fiddes, J. C., MA BSc *Edin.* Lectr.

Grant, P., DPhil Oxon., BSc Lectr.

Enderby, J. E., BSc Lond. Lectr.

Tuman, J. M., BSc PhD *Durk.* Lectr.

Bishop, J. E. L., BA Camb., MSc *Natal* Lectr.

Williams, K. C., BSc Lond., PhD *Leeds* Lectr.

Austin, I. G., MA Camb., MSc PhD Lond. Lectr.

Walton, A. K., BSc *Not.*, PhD *R'dy.* Lectr.

Blythe, H. J., BSc Lond. Asst. Lectr.

Gaskell, T., BSc Lond., PhD *Manc.* Asst. Lectr.

Kilby, G. E., BSc Asst. Lectr.

Ross, J. W., BSc Jr. Res. Fellow

Smith, T. F., BSc Jr. Res. Fellow

#### Physiology

Smyth, D. H., MSc MD *Belf.*, PhD Lond. Prof.

Pickles, V. R., MA MD Camb. Reader

Wiseman, G., MB BS Lond., PhD Sr. Lectr.

Barry, R. J. C., BSc Lond., PhD *Ston.* Lectr.

Jervie, E. Lealy, BSc *Edin.*, PhD Lectr.

Kershaw, T. G., MB ChB Lectr.

Clegg, P. Catherine, MB ChB *Brist.*, BSc PhD Asst. Lectr.

Levin, R. J., MSc *Lev* Asst. Lectr.

Newey, H., BSc PhD J. G. Graves Med. Res. Fellow

#### Psychology

Kay, H., MA PhD Camb. Prof.

McKellar, T. P. H., MA *N Z.*, PhD Lond., BPPs Sr. Lectr.

Pilkington, G. W., BA Lond.  
Moray, N., MA DPhil Oxon.  
Warr, P. B., BA Camb  
Annett, J., MA DPhil Oxon.

Lectr.  
Lectr.  
Asst. Lectr.  
Hon. Lectr.

Allan, J. H., LDS Glas., BDS  
Battersby, T. G., FDSRCS  
Dinadale, R. C. W., BChD Leeds,  
FDSRCS

Lectr.  
Hon. Lectr.  
Hon. Lectr.

**Refractories Technology**

White, J., DSc PhD Glas., FIM  
Ford, W. F., BSc Lond., PhD

Dyson Prof.  
Sr. Lectr.

**Sociological Studies**

Kelsall, R. K., MA Glas. Prof.  
Mann, P. H., BA Lond., MA Lit., PhD Nott. Lectr.  
Girling, F. K., BA Camb., DPhil Oxon. Lectr.  
Jackson, J. A., BA(Soc) Chic., MA Lond. Lectr.  
Owens, Miss Kathleen R., BA Lond. Tutor  
Sainsbury, E. E., MA Oxon. Teaching Caseworker

Martin, D., BSc(Soc) Lond. Asst. Lectr.  
1 Res. Asst.

**Spanish**

Pierce, F. W., MA Belg. & Dub. Hughes Prof.  
Ribbons, G. W., MA Lond. Sr. Lectr.  
Heathcote, A. A., MA Manc. Lectr.  
Gallagher, P., MA Dub. Lectr.  
Moragas, F., DPhil Madrid Asst.  
Boser, S., LicenLet Barcelona Lectr.

**Statistics**

Rubens, H., BSc PhD Lond.  
United Steel Co. Sr. Lectr.-in-Charge  
Kerridge, D. F., BSc S'ion. Lectr.  
Lutz, W., MSc Rand. Lectr.  
Davies, Hilda M., BSc Lond. Tutor  
1 Res. Asst.

**Zoology**

Chester Jones, I., DSc PhD Lond. Prof.  
Francis, E. T. B., BSc Lond., PhD R'gd. (Vertebrate Z.) Reader  
Ebling, F. J. G., MSc PhD B'nt. Reader  
Segrove, F., BSc PhD Sr. Lectr.  
Jones, J. D., BSc Lond. Lectr.  
Highnam, K. C., MSc Manc., PhD Lectr.  
Phillips, J. G., BSc PhD Liv. Lectr.  
Bellamy, D., DPhil Oxon., BSc Lectr.  
Lusk, O., MagRerNat Latvia, PhD Museum Curator

**DENTAL STUDIES****Dental Mechanics and Prosthetics**

Tutrell, A. J. W., LDS Leeds Sr. Lectr.  
Smith, J. P., BChD LDS Leeds, BDS Lectr.  
1 Instr., 2 Asst. Instr.

**Dental Metallurgy**

Woodhead, J. H., BMat †Lectr.

**Dental Pathology**

Hodson, J. J., BDS PhD Prof.

2 T 2

**Dental Surgery**

Roberts, G. L., MB ChB BDS Lond., FDSRCS Prof., Dir. of Dental Studies  
Hull, J., DDS Penn. †Asst. Lectr.  
Rastall, R., LDS †Hon. Lectr.  
Rayner, G. H., LDS, FDSRCS (Maxillo-facial Surg.) Lectr.  
Sprinz, R., BDS PhD, FDSRCS (Prev. D.) Lectr.  
Wedgwood, Marjorie M., BDS (Prev. D.) Asst. Lectr.  
1 Asst. Tech. Instr.

**Operative Dental Surgery**

Hampson, E. L., MDS Liv., FDSRCS Prof.  
Clarke, J., BDS Lectr.  
Atkinson, Anne M., LDS Manc. Lectr.  
Lehman, M. L., BDS Lectr.  
Medd, R. D., LDS Asst. Lectr.  
Goddard, K. R., LDS Asst. Lectr.  
Stonehouse, I., LDS Asst. Lectr.  
Clarke, N. G., BDS Lond. Asst. Lectr.

**Oral Anatomy and Histology**

Sprinz, R., BDS PhD, FDSRCS Lectr.  
Heald, H. R., LDS †Lectr.  
Wedgwood, Marjorie M., BDS Asst. Lectr.

**Orthodontics**

Geddis, J. H., BDS Manc. Sr. Lectr.  
Iyer, V. S., BDS B'nt., FDSRCS Lectr.  
Price, A. H. K., LDS, FDSRCS Hon. Lectr.  
6 other Clin. Dental Teachers

**ENGINEERING**

(see also Maths., above)

**Applied Mechanics (Postgraduate)**

Taplin, W. A., DSc Manc., MIMechE Prof.  
Meyer, M. L., BSc(Eng) Lond. Sr. Lectr.  
Dipling Berl. Sr. Lectr.  
Piceman, P., BEng Lectr.  
Rose, E., BSc Manc. 1 Res. Asst.

**Engineering, Chemical, see Fuel Technol., below****Engineering, Civil**

Boulton, N. S., MSc B'nt., MICE Prof.  
Eastwood, W., PhD Aberd., BEng Sr. Lectr.  
Ogden, C., BSc(Eng) Lond. Lectr.  
Sarginson, E. J., MEng Liv. Lectr.  
Clements, M. S., BEng Lectr.  
Wilby, C. B., BSc PhD Leeds Lectr.  
Wilson, E. M., MSc(Eng) B'nt. Lectr.

**Engineering, Electrical**

- Cullen, A. L., OBE, PhD *Lead*, MIEE Prof  
 Butler, O. L., DSc *Wales*, MIEE  
 (Electr. Machinery) Reader  
 Benson, F. A., MEng *Lev.*, DEng PhD  
 (Electronics) Reader  
 Harrison, D., MEng *Lev.*, PhD Sr. Lectr.  
 Robson, P. N., BA *Comb.* Lectr.  
 Brown, R., BEng PhD Lectr.  
 Allison, J., BSc(Eng) *Nostr.*, PhD (on leave) Lectr.  
 Howatson, A. M., BSc PhD *Edw.* Lectr.  
 Charcoats, P. J. B., BSc(Eng) PhD *Lead* Lectr.

**Engineering, Mechanical**

- Duncan, J. P., ME *Adol.*, MIMechE Prof  
 Parker, C. F., BSc *Lead* Sr. Lectr.  
 Baldwin, E., MSc(Eng) *Lead* Sr. Lectr.  
 Neal, P. B. N., BEng PhD Sr. Res. Fellow  
 Sutherland, K. H., BSc *Durh.* Lectr.  
 Briggs, G. C., BEng Lectr.  
 Bernat, E. P., DiplIng *Leass* Lectr.  
 Woo, D. M., BSc *Shanghai*, MS *Mich* Lectr.  
 Ferguson, T. B., MA *Comb.* Lectr.  
 Stringer, J. D., BScTech *Mane.* Lectr.  
 Spaulding, L. G. M., BEng Lectr.  
 Kenny, B., BEng Lectr.  
 Swift, W. A. C., BSc(Eng) *Lead*, MEng Lectr.  
 Wearing, J. L. Asst. Lectr.  
 Dugdale, D. S., BSc PhD *Bynt.*

Speedicut Res. Fellow

1 Draughtsman Demr.

**Fuel Technology and Chemical Engineering**

- Thnng, M. W., MA *Comb.*, FIP  
 (Applica. Chem.) Hon. Lectr.  
 Hulse, C., BSc *Burm.*, PhD Sr. Lectr.  
 Siddall, R. G., MSc PhD Lectr.  
 Perry, M. G., BSc(Eng) *Rand* Lectr.  
 Littlewood, K., BSc *Lead*, PhD Lectr.  
 McGrath, I. A., BSc PhD Lectr.  
 Critchley, G. N., MSc Lectr.  
 Foster, P. J., BScTech PhD Lectr.  
 Swinchbank, J., BSc *Bom.* Lectr.  
 Riley, H. L., DSc *Lead*, FRIC  
 (Liquor Fuel Combustn.) Hon. Lectr.  
 Southern, H., MScTech  
 (Furnace Design) Hon. Lectr.  
 Fells, H. A., MBE, BSc PhD *Lead*, FRIC  
 (Gas Utilization) Hon. Lectr.  
 Chesters, J. H., BSc DScTech PhD, FIP  
 (Indust. Res.) Hon. Lectr.  
 Beer, J. M., DiplIng *Bad.*, PhD  
 Hon. Res. Fellow  
 Hedley, A. B., PhD C.E.G.B. Res. Fellow  
 Mansi, J. V. S., BE MTech PhD *Kharagpur*  
 I.C.I. Res. Fellow

2 Res. Assists, 2 Demrs.

**Glass Technology, see above****Mining**

Atkinson, F. S., MEng

Prof.

- Roberts, A., BSc *Lead*, MSc *Durh.*,  
 PhD *Nostr.* (Postgrad. Sch.) Dir.  
 Hurst, G., MEng Sr. Lectr.  
 Pursall, B. R., BSc *Wales*, PhD Lectr.  
 Metcalf, J. R., BSc(Eng) *Lead* Lectr.  
 Williams, F. T., MSc *Wales*  
 (Postgrad. Sch.) Lectr.  
 Bunt, H. J., BSc *Mane.* (Postgrad. Sch.) Lectr.  
 Hawkes, I., BEng PhD (Postgrad. Sch.) Lectr.

**Honorary Lecturers**

- Evans, W. H., MSc PhD *Lead*.  
 Gurnshaw, H. C., OBE, MSc *Mane.*, PhD  
 Guénault, E. M., MSc PhD  
 Tidswell, F. V., OBE, MSc *Mane.*, PhD  
 Hartwell, F. J., MSc *Mane.*  
 Nagelschmidt, G., DPhil *Berl.*, FGS  
 2 Res. Assists.

**MEDICINE**

(for subjs. of first 2 yrs — Anat., Physiol., etc., see above)

- McCue, J. G., OBE, TD, MB, FRCPed Dean  
 Smeddon, I. B., MB ChB, FRCP  
 (Du. of Clin. Studies)  
 Lytle, W. J., BAO *Belf.*, MB ChB, FRCS  
 †Dir. of Postgrad. Clin. Studies

**Bacteriology**

- Beattie, C. P., MA MB ChB DPH *Edm.* Prof.  
 Beverley, J. K. A., BSc MD Sr. Lectr.  
 Hoskins, J. M., BA *Oxon.*, PhD *Lead*  
 (Bacterial & Viral) Lectr.  
 Sheddin, W. I. H., BSc MB ChB *Edin.* Lectr.  
 Paine, C. G., MD *Lead*, FRCOG Hon. Lectr.  
 Colquhoun, J., MB ChB Hon. Lectr.  
 Gillespie, E. H., MB ChB *Edin.* Hon. Lectr.  
 Wilson, Margaret A., MB ChB *St And.*,  
 DipBact *Mane.* Hon. Lectr.  
 Potter, C. W., BSc *R'dg.* Hon. Demr.

**Biochemistry**

- Gibson, Q. H., MD DSc *Belf.* Prof.  
 Dalziel, K., BSc PhD *Lead*  
 (Biochem. Res. Fellow of Royal Society)  
 Massey, V., BSc *Syd.*, PhD *Comb.* Sr. Lectr.  
 Kays, M. A. G., BSc *Lead*, PhD *Burm.* Lectr.  
 Hofmann, T., DrScTech *Zür.* (on leave) Lectr.  
 Sykes, J., BSc PhD *Leeds* Lectr.  
 Answorth, S., BSc *Lead*, PhD *Mane.* Lectr.  
 Smith, M. H., BSc PhD Temp. Lectr.  
 Jordan, A., MB BS *Lead*, FRCP  
 (Clin. B.) Hon. Lectr.  
 Norynberski, J. K., DrScTech *Zür.*  
 Hon. Lectr.  
 Podmore, D. A. Hon. Demr.  
 Finch, Ethel, MSc *Bom.* Hon. Demr.

**Cancer Research**

- Green, H. N., MA *Comb.*, MD MSc  
 Prof. of Exper. Pathol. & Dir. of Cancer  
 Res., Univ. of Leeds, Hon. Dir.  
 5 Res. Workers

## Child Health

Illingworth, R. S., MD DPH *Leeds*,  
FRCP  
Larber, J. J., BA MD *Cambs*  
Holt, K. S., MD *Rock & Mount*, MRCP  
Dubowitz, V., BSc MD *Cape T.*  
Gordon, R. M., MC, MD *Glas.*  
5 Clin. Teachers

## Field Laboratories

Illman, O., BSc *Leeds* Curator

## Forensic Medicine

Fochen, G., BSc MD *Glas.*, FRCSed,  
FRFPsGlas  
Usher, A., MB BS *Durk*

## Medicine

Stuart-Harris, C. H., CBE, MD *Leeds*,  
FRCP  
Duff, R. S., MD, FRFPsGlas  
Platts, Margaret M., BSc MD  
Daly, J. J., MA MB *Bchs Camb.*  
Penman, R. W. B., MD *Edin*, MRCPed  
†Lecturers & †Clinical Teachers  
Brody, H. P., FRCP  
Leishman, A. W. D., MA DM *Oxon*, FRCP  
Shipper, E. W., MD *Leeds*, FRCP  
Wilson, G. M., BSc MD *Edin*, FRCP, FRCPed  
Davies, C. E., MA DM *Oxon*  
Turner, H. M., MD *Manch*, DPH (Chest Dis.)  
Darke, C. S., MD *Leeds* (Chest Dis.)  
Gumpert, T. E., MB ChB, FRCP (Cardiol.)  
Verel, D., MA MD *Camb.* (Cardiol.)  
Kennedy, J. M., MB BCh BAO DPH *Belf*  
(Infectious Dis.)

Cason, J., MB ChB *St. And.*, FRCP (Nephrol.)  
Wilkie, J., DMRE *Camb.*, MSc MB ChB, FFR  
(Radiology)  
Blomfield, G. W., MA *Camb.*, MB ChB *Leeds*,  
FRCS, FRCP, FFR (Radiotherapy)  
West, H. F., MD *Leeds*, DTM *Leeds*  
(Rheumatic Dis.)  
Sneddon, I. B., MB ChB, FRCP (Dermatol.)  
Morton, R. S., MB, MRCP (Venereal Dis.)

## Honorary Lecturers

Tyrell, D. A. J., MD (Med)  
Miller, H., MA PhD *Camb.*, FIP (Radiol. Phys.)  
Gregory, C., PhD *Leeds* (Radiol. Phys.)  
John Stokes Research Fellow  
Smith, A. J., MA BM BCh *Oxon*.  
13 other Clin. Teachers, 1 Res. Asst., 1 Instr.

## Microbiology

Eliden, S. R., BA PhD *Camb.*, West Riding Prof.  
Fry, B. A., BA PhD *Camb.*, Sr. Lectr.  
Evans, M. C. W., BSc Batchelor Res. Fellow  
Peel, J. L., BA PhD *Camb.*, Hon. Lectr.  
Heare, D. S., MSc PhD *Leeds*, Hon. Lectr.

## Obstetrics and Gynaecology

Russell, C. S., MA *Oxon*, MD *Edin*,  
FRCSed, FRCPG  
Dewhurst, C. J., MB ChB *Manch*,  
FRCSed, FRCPG  
Warrell, D. W., MB ChB  
Baker, Jenn L., MB ChB  
†Lecturers & †Clinical Teachers  
Patrick, L. B., MB ChB, FRCSed, FRCPG  
Lees, D. H., MB ChB, FRCSed, FRCPG  
Smith, T., MB ChB, FRCSed, FRFPsGlas,  
FRCPG  
1 other Clin. Teacher, 1 Res. Asst.

## Pathology

Collins, D. H., OBE, MD *Liv*, FRCP  
Joseph Hunter Prof.  
Cane, W. A. J., MD *Glas* (on leave), Sr. Lectr.  
Ghadimly, F. N., MB BS *Bari*, MD *Durk*  
PhD *Leeds* (Byper P.) Sr. Lectr.  
Dodge, O. G., MD *Manch*  
Meachum, G., MD *Camb*  
Bury, H. P. G., BA MSc BChir *Camb*  
Edwards, J. L., MA MB BChir *Camb*,  
LLB, MRCP  
Emery, J. L., MD *Brist.*, DCH  
Pnos, D. E., MB BS *Leeds*  
Blackburn, E. K., MD *Leeds*,  
FRFPsGlas (Hematol.)  
Warrick, A. J. N., MB, MD *Leeds*  
Bowley, C. C., MB BS *Leeds*  
Osborn, G. R., MB BS *Med*, MRCP  
Holman, L., MA MD *Camb.*, MRCP  
Jordan, A., DSc *Stress*, MB BS *Leeds*,  
FRCP (Chem. P.) Hon. Lectr.

## Pharmacology and Therapeutics

Wilson, G. M., BSc MD *Edin*, FRCP,  
FRCPed  
Munro, D. S., MD *Aberd*  
Tudhope, G. R., BSc MD *St. And*  
Kilpatrick, R., MD *Edin*  
Acland, J. D., MA BSc BM BCh *Oxon*  
Wentch, R. S., MB ChB *Glas.*  
(Therapeutics) †Hon. Lectr.  
Walker, Anne E., MB ChB  
Boots Med. Res. Fellow  
Broadhead, G. D., BSc PhD  
Wellcome Res. Fellow  
Pearson, I. B., MB ChB Wellcome Res. Fellow  
1 Res. Asst., 2 Instr., 1 Tutor

## Preventive Medicine and Public Health

Knowlton, J., MD DPH *Leeds*, Prof.  
Brown, P. E., MB ChB DPH *Edin*, Sr. Lectr.  
Fleming, C. E., MA *Blatt Oxon*, BA  
DipCom W. Asst.  
Ree, J. W., BSc *Leeds*  
Lynn, J. E., MD DPH, DPA *Glas*, Lectr.

Travethick, R. A., MB ChB  
(*Indust. Med.*) Hon. Lectr.  
Roberts, L., MD DPH Lond.  
(*Pub. Health*) Hon. Lectr.  
Shaw, C. H., MD Lond., DPA  
(*Pub. Health*) Hon. Lectr.  
1 other Clin. Teacher

## Psychiatry

Stengel, E., MD Vienna, FRCP Prof.  
Thorpe, F. T., DPM Lond. †Lectr.  
Marskey, H., MA BM BCh Oxon. Lectr.  
Jenner, F. A., MB ChB PhD Lectr.  
Clarke, P. R. F., MA Oxon., DipPsych Lond  
(*Clin. Psychol*) Lectr.  
Esler, P. J. S., MB ChB Birm., Hon. Lectr.  
DPM Leeds  
Macmillan, D., BSc MD DipPsych Educ., Hon. Lectr.  
FRCPEd  
Oime, J. E., BA Manc (Clin. Psychol) Hon. Lectr.  
2 other Clin. Teachers, 2 Clin. Instrs

## Surgery

Kay, A. W., MD ChM Glas., FRCS, FRPSGlas Prof.  
Gibbs, I. E., MB ChB Glas., FRCSed Lectr.  
Clarke, S. D., MCh Belf., FRCS (on leave) Lectr.  
Lytle, W. J., BAO Belf., MB ChB, FRCS Lectr.  
Bond, M. R., MB ChB Temp. Asst. Lectr.  
Randall, D. H., MB BS Lond., FRCS (Clin. S.) †Lectr.  
Robertson, D. J., MS Lond., FRCS (Clin. S.) †Lectr.  
Anderson, J. C., OBE, TD, MB ChB St And., FRCS (Clin. S.) †Lectr.  
Jones, C. D. P., MBE, MB BS Lond., FRCS (Clin. S.) †Lectr.  
Holdsworth, F. W., MA MChir Camb., FRCS (Orthoped. S.) †Lectr.  
Hardman, J., MB ChB Birm., FRCS (Neurological S.) †Lectr.  
Gray, J. D., MB ChB, FRCS (Ear, Nose & Throat) †Lectr.

Stanworth, A., PhD Manc., BSc MD (Ophthalmol.) †Lectr.  
Plessance, R. E., MD, FFARCS (Anaesth.) †Lectr.  
Taylor, D. G., MB BCh BAO Belf., FRCS (Cardiothoracic S.) †Lectr.  
18 other Clin. Teachers, 8 Instrs., 1 Res. Asst., 1 Tutor

## INSTITUTE OF EDUCATION

Ford, B., MA Camb. Prof., Dir.  
Barch, L. B., MA BSc Birm. (Educ. Psychol.) Sr. Lectr., Dep. Dir.  
Whitehead, F. S., MA Camb. & Lond. (Educ.) Sr. Lectr.  
Marshall, Sybil M., BA Camb. (Primary Educ.) Lectr.  
Edwards, H. T., BSc Lond. Sec.  
Smith, Gwen F., BA (on leave) Librarian  
1 Res. Fellow

## EXTRA-MURAL STUDIES

Bruce, M., BA Lond., FRHistS Dir.  
Lecturers:  
Bestall, J. M., MA Oxon. (Hist.)  
Park, J. T., MA Manc. (Hist.)  
Parry, H., MA Oxon. & Leeds, PhD Lond. (Hist.)  
Crowther, D., MA Leeds, PhD Glas. (Philos.)  
Hamsworth, J. D., MA Oxon. (Lit.)  
Whittington, W. E., MA (Econ. & Indust. Relns.)  
Harrison, R. J., MA DPhil Oxon. (Econ. & Indust. Relns.)  
Barrett Brown, M., MA Oxon. (Econ. & Indust. Relns.)  
Peel, J., BA Leeds (Sociol.)  
Tolman, A. Morwenna, BA Camb. (Child Care Trg.) Tutor  
23 Tutors† in addition to members of the Univ. Academic Staff

## ADMINISTRATIVE AND OTHER STAFF

Finance Officer & Dep. Bursar: E. Walker, DSO, BA Manc., BSc(Econ.) Lond., Asst. Registrar: P. O. Hooley, BA Birm.; Mrs. Eileen M. Donnan, BSc; H. D. Turner, BSc PhD, Asst. Bursar: Lt.-Col. C. E. Eley, MBE, TD, J. H. Barker, MA Camb. Planning Officer: H. R. Johnson, BA DipArch.

LIBRARY Dep. Librarian: W. L. Saunders, MA Camb., FLA; Sub-Librarians: W. J. Hitchens, MA Camb.; Signe Mandahl, BA Oxon., FLA; G. C. J. Stotham, MA Oxon., FLA. Asst. Librarians: A. Davies, BA Lit., Joan Gilham, MA Camb.; Christina M. Mather;

T. A. D. Smith, BA, FLA; Susan M. Baker, BA St'ou.

STUDENT HEALTH SERVICE. Med. Officer in Charge: P. W. W. Gifford, MB ChB Birm. Asst. Med. Officers: Alison Chapman, MB ChB St And.; R. M. Kinsey, MB ChB Lvo.

RADIATION PROTECTION OFFICER: W. T. Baker, BSc.

WARDENS OF HALLS OF RESIDENCE. For men: W. R. Maddocks, BSc Wales, PhD Glas. (Crews Hall); Prof. H. W. Lawton, MA Water, DUParis (Rammoor House); G. C. Bird, BA Lond. (Stephenson Hall). For women: Dorothea M.

Mowat, BSc PhD Edin. (Halsley Hall). LODGE-  
JESUS WARDEN: Ethel T. M. Ball.

APPOINTMENTS BOARD. Sec.: E. A. Owens,  
BA Lond.

SR. TUTOR FOR WOMEN STUDENTS: Dorothea  
M. Mowat, BSc PhD Edin.

MASTER OF PHYSICAL RECREATION. H. Cofield.

## GENERAL INFORMATION

The Sheffield Sch. of Med., founded 1828, Fifth Coll., establd. as a coll. of arts and sci. in 1879, and the Sheffield Technical Sch., opened in 1886, were united in 1897 to form Univ. Coll., Sheffield. In 1905 the coll. became, by royal charter, the Univ. of Sheffield.

Originally dependent almost entirely on local contributions, the Univ. developed slowly in its early yrs., with the foci. of engin. and metall. in particular, benefiting from their close connection with local industry, but with a balance of student numbers largely in favour of the arts and pure sci. In recent yrs. Treasury grants have made possible all-round expansion, and since the end of the war 14 new depts. have been establd., 29 chairs created, 5 major bldgs. and considerable extensions completed, and extensive sites acquired. Particular attention has been paid to facilities for postgrad. study in the various branches of engin. and metallurgy, in a of which—glass and refractories technol.—Sheffield has the only Univ. teaching depts. in the country.

CONSTITUTION. The court, the governing body of the Univ., consists of some 605 repr. of educn. and financial interests, who receive an annual report and statement of accounts and sanction changes in ordinances. Executive control rests with the council, composed of the officers of the Univ. and repr. apptd. by court, senate, the non-professional staff, local authorities and hospes, and convocation. The senate, comprising the profs. of the Univ. and certain other academic persons, controls all academic affairs and reports to the council on academic matters requiring action by the council. Seven foci. (see below), each under its own bd., are responsible to the senate for the teaching in their various depts. The dept. of extra-mural studies and inst. of educn. report direct to the senate and the council through their bds.

The chancellor is the chief officer of the Univ. The vice-chancellor is the principal senile officer, and is, ex officio, chairman of senate.

INCOME (1960-61). Endowments, £67,404; donations and subscriptions, £52,050; grants from local authorities, £39,596; parliamentary grants, £1,418,743; students' fees, £185,277; contributions for services rendered, £221,183; other income, £9936.

FACILITIES AND DEANS. Arts (incl. archit.), Prof. E. Loughton (Latin); econ. & soc. studies, C. A. Whittington-Smith (accountancy); engin. (depts. of civ., electr. and mech. engin., appl. mechs., mining, fuel technol. & chem. engin.,

glass technol.), Prof. F. S. Atkinson (mining); law, Prof. O. R. Marshall; med. (incl. dental studies), Dr. J. G. McCrie, metall., Prof. A. G. Quarrell; pure sci., Prof. Q. H. Gibson (biochem.).

UNIVERSITY PREMISES. The teaching and res. bldgs. of the facs. of arts, econ. & soc. studies, law, med. and pure sci., the sch. of soc. studies, library, staff club house, students' union and admin. offices are grouped in the Western Bank area, in close proximity to 4 of the teaching hospes. A short distance from this main group lies the St. George's Sq. block of engin. and metall. depts., and on the other side of Western Bank, linked to it by new playing-fields, the bldgs. of the dept. of glass technol. Sites now being developed, both in the neighbourhood of these groups of bldgs. and in a pleasant residential suburb about a mile away, in which the halls of residence for students are situated, will result in compact Univ. teaching and residential quarters.

LIBRARY. Arts, econ. & soc. studies, law, med., pure sci.: 250,541 vols and pamphlets; appl. sci. 25,785 vols and pamphlets. Also sp. glass technol., inst. of educn., and dept. collections.

LABORATORIES, ETC. Equipment for advanced study and res. in all depts. Sp. provision for engin. in all branches, incl. mining, and fuel technol. & chem. engin.; also for glass technol. and metall., the equipment for the latter incl. an experimental-scale steel works. Electronic computation lab.; Edge Mount radio-astron. str. Alfred Denby Museum (zool.).

HOSPITALS available for clinics: Royal Inf. (558 beds), Royal H. (446 beds); City General H. (680 beds); Jessop H. for women (234 beds); Children's H. (205 beds); Lodge Moor, Hallwood, King Edward VII Hs. and the Sheffield Sanatorium for infectious dis. (2086 beds); Middlewood H. (mental dis.) (2030 beds); Edgar Allen Physical Treatment & Rehabilitation Centres; Charles Clifford Dental H.; New Teaching H.

INSTITUTE OF EDUCATION, 587 Glossop Rd., Sheffield, 20 (tel.: Sheffield 65287) (see also "Teaching Staff", above). Constituent members: Univ. dept. of educn.; City of Sheff. Trg. Coll.; Thornbridge Hall Trg. Coll.; Wentworth Castle Trg. Coll.; Doncaster Trg. Coll.; Lady Mabel Coll. of Phys. Edn.; Totley Hall Coll. of Housecraft; City of Sheff. Coll. of Arts & Crafts; Swinton Day Trg. Coll.

ADMISSION. See Appendix III.

FIRST DEGREE BA gen., BA sp. hon. (classics, Engl., French, German, Spanish, hist., mod. hist. & govt., philos., econ., econ. & govt., maths, archit., music, biblical hist. & lit., psychol., and combinations of certain of these subjs.)—3 yrs. (except BA hon. archit.—5 yrs and approved time spent in an architect's office) BA arch. hon.—5 yrs. BA(Econ) gen., or sp. hon. (econ., geog., sociol., psychol., and dual philos. & psychol.)—3 yrs BMus—3 yrs (4 yrs. if combined with BA) BEng, ord. or hon. (civil, elect., or mech. engin., or engin. with business studies, maring), BScTech, ord. or hon. (fuel technol. & chem. engin.)—3 yrs. after passing entrance exam \* LLB, ord. or hon. (on results of final exam)—3 yrs BJur, ord. or hon. (on results of final exam)—2 yrs after passing inter. or 1st yr. exam for a degree of a fac. of the univ. other than fac. of law MB ChB, BDS (hons. available on combined results of 2nd, 3rd and final exams)—5 yrs after passing 1st exam (BDS, pt. I of 1st exam) \* BMet, BScTech (glass or refractories & ceramics technol.), ord.—3 yrs, hon. 3 yrs after passing inter. exam \* BSc, gen.—3 yrs, sp. hon. (maths, phys., chem., zool., bot., physiol., geol., geog., anat., biochem.)—3 yrs after passing inter. exam \*

BA and BSc gen. degrees (on which hon. may be obtained under certain conditions) are awarded on 3 subjs. offered in the final exam., sp. degrees of BA and BSc with hon., on one principal subj. of the hon. sch., together with any subord. subject(s) required. In the various branches of engin., admission to the hon. course (in the 3rd, final, yr.) is obtained on the results of the 1st (post-inter.) exam. In glass technol. admission to the hon. course may be obtained at the end of either the 1st or 2nd yr. on exam. results.

Under certain conditions, grads. of a U.K. univ. who wish to qualify for the sp. degree of BA or BSc with hon., BMus, or LLB need only attend courses for a yrs. if they have pursued a course for 2 yrs. at some approved instn. Similar conditions apply in the case of grads. of approved univs. who wish to qualify for BEng, BScTech or BMet with hon. (for BEng or BScTech ord. degree, the attendance required may be 1 or 2 yrs.; BMet ord. degree, 2 yrs.).

Attendance on approved courses at a univ. or coll. recognized for the purpose may be accepted as equivalent to such courses in the univ. The univ. contributes towards the expenses of undergraduate, spending a term at univ. so recognized by the fac. of arts for certain lang. courses.

Transfer Year. A prodm. transfer yr. is available for students admitted to the hon. sch. of chem. under the I.C.I. scheme.

HONOR. DEGREES LL.M., MA, MA(Econ), MSc, MEng, MMet, MScTech, obtainable.—

(1) by bachelors of the univ. of not less than 1 yr.'s standing, holding approved degrees in the

fac. concerned: (a) by presentation of a thesis, with oral and written exam, if required (attendance on courses may also be required as follows: LL.M., MA and MA(Econ)—such courses as the fac. concerned may prescribe for candidates who hold a bachelor's degree without hon.; MSc—3 consecutive terms for grads. BSc with hon. of less than 2 yrs.' standing, 6 consecutive terms under certain conditions for grads. BSc without hon.; MEng—3 consecutive terms for grads. BEng of less than 2 yrs.' standing and experience in the sci. or practice of engin.; MMet—not less than 3 terms' res. in the dept. of metall. for grads. BMet of less than 3 yrs.' standing and experience in the sci. or practice of metall.; MScTech in fuel or glass technol.—3 consecutive terms for grads. BScTech of less than 2 yrs.' standing and experience in the sci. or practice of technol.; MScTech in refractories technol.—not less than 3 terms' res. in the dept. of refractories technol. for all candidates); (b) alternatively for MA, MA(Econ), MSc, MMet, MScTech in refractories technol., by written exam (and submission of a dissertation with oral exam, if required in the case of MMet in refractories technol.), after attendance on approved courses of not less than 1 yr.

(1a) under certain conditions, by grads. of other facs., appropriately qualified grads. of other approved univs., and (except for the degree of LL.M.) certain other persons with approved qualifs. (towards which the practice of engin., metall. or technol. may contribute in the case of MEng, MMet and MScTech respectively), after attendance on courses varying from 1 to 3 yrs (MSc in educn., 5 yrs. pt.-time).

(11) (MEng, MMet, MSc, MScTech only) by appropriately qualified full-time members of staff of affiliated technical colls., by presentation of a thesis after 3 yrs.' approved res. in the affiliated instn. under univ. supervision.

MD, MDS, ChM, obtainable only by grads. of the univ.: MD, by thesis (and exam, if required), MDS, by thesis or exam.—2 yrs.' standing, ChM, by exam.—3 yrs.' standing.

PhD, available in all facs. after a 3-yr. course of study (which may, in certain circumstances, be reduced to 2 yrs.) to grads. of any approved univ. and to persons holding other approved qualifs., and in the facs. of arts, law and econ. and soc. studies after 4 yrs.' pt.-time study to grads. only.

Doctorates obtainable only by grads. of the univ.: LL.D., for distinction in tes. or learning in law (exam. may also be required)—4 yrs.' standing; DMus, by composition (or thesis) and exam.; DEng, DMet, DScTech, for distinction by substantial contributions to learning—6 yrs.' standing; LittD, LittD(Econ), for distinction by contribution to learning—LittD, gen., MA of 7 yrs.' standing, LittD(Econ), grade MA(Econ) of 5 yrs.' standing; DSc, for distinction in published original res.—grads. BSc of 6 yrs.' standing, grads. BSc of other approved univs. who are also MSc or PhD of Sheff. of 6 yrs.' standing.

\* See also Appendix III.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Architect, 5 yrs (incl. approved time spent in an architect's office); glass technol., 3 yrs. (for those with 2 yrs' practical experience, 2 yrs.); assoc. fuel technol. & chem. engin., assoc. glass technol., assoc. metall. (for persons already holding appropriate qualifs.), 1 yr. Post-graduate educ., 1 yr.; microbiol., 1 yr.; pub. health, 18 months pt.-time; appl. mechanics, 1 yr.; mining, 1 yr. full-time or equivalent pt.-time; business studies, 1 yr.; glass technol., phys. metall., 1 yr.; soc. studies, 1 or 2 yrs.

**CERTIFICATES** Architect, 3 yrs; profess. practice of archit., exam after 1 yr.'s profess. practice following award of degree or dipl.; biblical hist. & lit., 2 yrs' evening study; soc. studies, 2 yrs.

**LICENTIATE.** LDS, 5 yrs

**POSTGRADUATE COURSES.** In addn. to those leading to a qualif., postgrad. courses not leading to a qualif. are available on a pt.-time basis in the postgrad. depts. of appl. mech., mining and phys. metall. to specially qualified persons from industry.

**BUSINESS STUDIES** 12-wk. courses for executives from industry, comm. and the public service. 6 residential sessions each of a fortnight, held at one of the univ. halls during 6 successive wks.

**RESIDENCE.** Facilities for postgrad. res. in all depts. A univ. fund assists members of academic, library and admin. staffs, res. fellows and scholars of the univ., and, in certain circumstances, registered res. students, in cases where adequate funds are not otherwise available. *Annual Report* lists publd. work and titles of theses approved for higher degrees.

**STUDY LEAVE.** No regular practice, but applies by members of staff for leave of absence dealt with by univ. council on merit.

**FEES.** *Annual composition fees* (incl. tuition, registration, exam., graduation and membership of students' union, but excl. lab. and 16-exam fees). Bachelor's degrees: BA, BA(Econ), BMus, LLB, BJur, £70; BSc, MB ChB, BDS, BEng, BScTech, BMet, £85. Higher degrees: MA, LL.M., PhD (without lab. facilities), £70; MSc, MEng, MScTech, MPhil, with attendance, £85 (with lab. facilities), £85; MA, MSc, MEng, MScTech, MPhil, LL.M. without attendance, £65; MEd, MDS, ChM, PhD (pt.-time), £90; Litt.D., DMus, LL.D., DSc, DEng, DScTech, DMet, £20. *Diplomas:* archit., soc. studies (3-yr course), educn., bus. studies, £70; microbiol., appl. mechanics, mining, glass technol., phys. metall., £85; soc. studies (1-yr course), £95; pub. health, £90. *Associateships:* fuel technol. & chem. engin., metall., £85. (*Note:* composition fees for undergrad. courses may be remitted in the case of children of full-time members of the univ. staff)

**ACADEMIC YEAR.** Oct.-June. 3 terms of 10 wks each.

**EXTRA-MURAL STUDIES** (see also 'Teaching Staff', above) A bd. of extra-mural studies supervises the provision of pub. lectures, univ. extension courses, tutorial and assl. classes, short residential schs. L.E.A.s and the W.E.A. are represented on the bd.

**PRINCIPAL OPEN ENTRANCE SCHOLARSHIPS**, awarded on the results of a apt. exam., held annually in Feb. (entries by Nov. 1 of preceding yr.): *Firth*, one of £120 p.a. for 3 yrs.; *Edgar Allen*, 6 (of which 3 restricted as to father's income and type of occupation) of £100 p.a. for 3 yrs.; *Umo*, 4 of £40 p.a. for period of degree course; *Med*, 1 of £68 for period of med. degree course, combined *Matthew Henry Habershen and Parker Rhodes Memorial*, 1 of £100 for 3 yrs. for degree course in mining; *Glass Seller's Co.*, 1 of £40 p.a., up to 4 yrs. for hon. degree in glass technol.

**POSTGRADUATE AWARDS** open to grads. of other univs., see p. 910.

**APPOINTMENTS BOARD.** The services of the bd. are available to all students, past and present. The bd. has members from industry, etc., and maintains relations with employers in all fields. For sec., see 'Admin. and Other Staff', above.

**SHEFFIELD UNIVERSITY ASSOCIATION** of old students publishes periodically a paper giving addresses, occupations, hon., etc.

**STUDENT RESIDENCE.** For women (10cs, £165 p.a.): Halifax Hall, Endcliffe Vale Rd., Sheffield, 10 (tel. Sheffield 63506) (main hall, 200). For men (10cs, £165-£175 with lunches Wed., Sat., Sunday only): Crewe Hall, Clarksdon Rd., Sheffield, 10 (tel.: Sheffield 60235) (main hall, 100; annexes, 30); Stephenson Hall, Oakholme Rd., Sheffield, 10 (tel.: Sheffield 61225) (at present 180); Ramson House, Fulwood Rd., Sheffield, 10 (tel.: Sheffield 32949) (50). For wardens, see 'Admin. and Other Staff', above. Registered lodgings: a list is maintained of lodgings supervised by a sp. officer, and there is a full-time warden of lodgings, board and lodging, cost from £3 7s 6d. upwards per wk.

**STUDENT HEALTH SERVICE.** This service is in the charge of full-time med. officers (appointed by univ.), when all students are entitled to consult. Under univ. regns. each student has med. exam. in 1st yr. (overseas students at entry). For med. officers, see 'Admin. and Other Staff', above.

**STUDENTS' UNION AND ATHLETICS.** See & athletic sub. of £10 (incl. in composition fee) is compulsory. Following facilities available: (i) membership of univ. union and its various socs., (ii) athletic grounds of approx. 55 acres, one on the outskirts of city and one, in course of devel., adjacent to univ.; (iii) gymnasium, boxing-ring, tennis, badminton, fives and squash courts, etc.



OFFICERS' TRAINING CORPS. A basic trg. wing and advanced sub-units of infantry, R.E. and W.R.A.C. C.O.: Lt-Col C.E. Eley, MBE, TD.

PUBLICATIONS. *Calendar* (Oct.), 15s; *Sheffield Univ. Gazette*, twice a yr., 1s; *Sheffield Univ.*

*Reporter*, monthly; *The Arrows*, a chronicle, twice a year, annual sub., 2s.; *Annual Report* (Dec.); *Handbook*; *Prospectus* of facs., 12g dept., sch of soc. studies, scholpa; *The Story of a Modern University. a History of the Univ. of Sheffield*, Arthur W. Chapman (O.U.P., 1955).

## THE YEAR 1961

PRINCIPAL BENEFACTION. Estate of Mrs Ada Irwin-Packington, £20,000 for res fellowship in 2001.

MAJOR BUILDING DEVELOPMENTS. Bldg completed: new gymnasium.

NEW CHAIR. and chair of phys

RETIREMENTS. H. B. Leighton (archit.); H. Blacow Yates (clin. surg.); E. G. Mascoe, Edith Hatherley (ophthalmol.); R. H. Barber (ast. barrister).

RESIGNATIONS. K. J. Northcott (German), apptd. assoc. prof. of German, Chic; W. S. Fowler (educn), apptd. HM inspector of schools; F. W. G. Wearon (appl. maths), apptd. lectr., appl. maths., Imperial Coll., Lond.; J. G. C. Milne (phys), apptd. lectr. in phys., Brist.; Dr. A. M. Murray (phys), apptd. lectr., computer unit, Abeld.; Dr. J. A. Beardmore (genetics), apptd. prof. of genetics, Green.; Dr. M. Taylor (anat.), R. A. Caldwell (pathol.), apptd. dir. of pathol., Princess Alexandra hosp., Brisbane; Dr. T. J. Rendle-Short (child health), apptd. prof. of child health, Q'ld; M. A. Burley (orthodont.), apptd. consultant orthodontist, Devon & Cornwall; Dr. J. F. Wallace (mech. engin.), apptd. dir. of res., Pressed Steel Co., Oxford; Dr. H. J. Tress (glass technol.); Dr. R. G. Ward (metall.), apptd. assoc. prof. of metall. & metall. engin., McM.; J. H. Davies (econ.), apptd. prof. of econ., Fourah Bay Coll., U.C. of Sierra Leone.

DEATHS. Miss K. L. Johnston (lectr. in educn, 1908-13); Emer. Prof. G. H. Tunstall (prof. of educn., 1922-54); F. Boillot (lectr. in French, 1905-13); Dr. J. Rennie (prof. of pub. health, 1930-47); Sir Ernest Finch (surg., 1913-60); prof., 1934-44); Prof. H. R. Dean (prof. of pathol., 1912-15); Emer. Prof. J. H. Andrew (prof. of metall., 1932-50); Dr. L. C. D. Hermite (lectr. in pathol., 1933-54); Dr. C. G. Izzi (lectr. in appl. physiol., 1920-45, med., 1928-54); Judge F. R. Best (lectr., pub. & common law, 1913-19); Emer. Prof. J. Husband (civil engin., lectr., 1892-1920, prof., 1920-36); J. D. Auld (surveyor); Violet C. Murray (warden, women's hall, 1928-36).

HONORARY DEGREES. MA—R. Hargreaves, chairman, Royal Sheffield Inst. for the Blind DSc—Sir Alexander Todd, prof. of org. chem., Camb.; N. F. Mott, Cavendish prof. of exper. phys., Master of Gonville & Caius Coll., Camb. DMed—Dr. U. R. Evans, emer. reader in sci. metal corrosion, Camb. DScTech—Dr. D. T. A. Townsend, dir.-gen., Brit. Coal Utilization Res. Assn. LutDEcon—Sir Denis Robertson, lately prof. of pol. econ., Camb.

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	2472	554
Women	709	285
Total	3181	839

Distribution by Faculties: Arts, 720; econ. & soc. studies, 206; engin., 627; law, 100; med. (incl. dent.), 474; metall., 174; sci., 880. Total: 3181.

Included in the figures above are:—

Postgraduate students, 490.

New admissions (full-time), 979.

Students from other countries, 277. (Countries from which largest numbers came: India, 50; U.S.A., 17; Iraq, 16).

DEGREES AWARDED (1960-61). Arts: BA, 37; BA hons., 127; BA(Econ.), 1; MA, 7. Engin.: BEng, 57; BEng hons., 36; BScTech, 7; BScTech hons., 10; MEng, 15; MScTech, 2. Law: LLB, 1; LLB hons., 14. Med.: MB ChB, 50; MB ChB hons., 4; BDS, 10; MD, 5. Metall.: BMet, 11; BMet hons., 16; MMed, 15; MScTech, 1. Sci.: BSc, 44; BSc hons., 130; MSc, 8; DSc, 1. PhD (all facs.): 68. Total number of first degrees awarded, 555.

DIPLOMAS, ETC., AWARDED (1960-61). Dip. Educn, 94; DipArch, 16; DPFA, 5; LDS, 27; DipAM, 8; DipMin, 2; AGlascTech, 3; AFCE, 1; AMet, 6, social studies, 1.

CERTIFICATES AWARDED (1960-61). Archit., 27; professional print. archit., 23; social studies, 15.

\* Pt.-time figures relate to end of academic yr. 1961-62

# UNIVERSITY OF SOUTHAMPTON\*

Founded 1952; previously established as Hartley University College, Southampton, 1902

Postal Address: Highfield, Southampton, England

Telegrams: University of Southampton

Telephone: Southampton 56331 (10 lines)

VICER-CHANCELLOR—H. M. THE QUEEN

CHANCELLOR—

PRO-CHANCELLORS—SIR SAMUEL GURNEY-DIXON, MA MD Camb, LLD, JP, SIR BASIL SCHENLAND, CBE, MA PhD, FRSE

VIC-CHANCELLORS—D. G. JAMES, Hon LLD *Mt. All. & Brown*, MA Hon DLitt *Wales*

DEPUTY VICE-CHANCELLOR—PROFESSOR A. PHILLIPS, OBE, JP, MA Oxon, PhD Lond

TREASURER—A. R. AVENS, FCA

SECRETARY AND REGISTRAR—R. N. M. ROBERTSON, MA LLB Glas.

ACADEMIC REGISTRAR—MARGARET W. PRICE WHITE, BA *Wales*

FINANCE OFFICER—J. H. DALBY, FCA

LIBRARIAN—B. M. BLAND, MCom BHW.

## TEACHING STAFF

[†=Part-Time]

### Botany

Williams, W. T., ARCS, DIC, PhD  
DSc Lond, FLS

Lane, G. R., BSc PhD Lond.

Lambert, Joyce M., MA PhD Lond

Manners, J. G., MA PhD Camb.

Myers, A., BSc PhD Lond

Macleod, M. D., MA Camb.  
Sparkes, B. A., BA PhD Lond.

### Education

Wagner, F. W., MA Oxon., BSc Adel.

Peacey, I. H., BSc Lond.

Hancox, Marguerita K., MA Birm.

Rushby, J. G., BSc Lond.

Thomas, Mary A. E., BSc Brist.

Oades, Iris K., BA Lond.

Richmond, F. E., BSc DipEd Lond.

Brookes, N. M., BSc Lond, DipEd

MA Lond.

Davies, W. J. F., MA *Wales*

Barton, A. A., BSc Lond.

Ricks, Elsie M.

(Phys. Trg & Hyg. Women) †Asst. Lectr.

Davies, V. S.

(Phys. Trg & Hyg. Men) †Asst. Lectr.

### Electronics

Zepher, E. E., DPhil Würzburg, PhD

Punnett, S. W., BSc Lond.

Gambrell, W. A., BSc PhD Lfd.

Vennings, B. H., BSc(Eng) Lond

Vennons, E. V., BSc PhD

Bloodworth, G. G., MA Oxon.

Stuchera, H. S., BSc(Eng) Lond.

Nacholia, K. G., MSc Lond

† Res Fellow

### Chemistry

Cookson, R. C., MA PhD Camb.

Hills, G. J., PhD DSc Lond.

Campbell, Isabel G. M., BSc

PhD St. And.

Fowles, G. W. A., BSc PhD Brist.

Riddiford, A. C., BSc PhD Birm.

Webb, K. R., BSc PhD Lond.

Balson, E. W., BSc Lond.

Castrell, E., BSc Lond

Cervell, E. A., BSc PhD Lond.

Frey, B. A., DPhil Oxon.

Stevens, I. D. R., BSc PhD Glas.

Kerridge, D. H., BSc PhD Nott.

Hudson, J., BSc PhD Lond

Johnson, L. C., BA PhD Camb.

6 Res Fellows

### Classics

Baldry, H. C., MA Camb

Whitaker, C. W., MA Oxon.

Douglas, A. E., MA Oxon.

Prof.  
Sr. Lectr.

Prof.  
Lectr.

Lectr.  
Asst. Lectr.

Prof.  
(Phys. C.) Prof.

Reader  
Sr. Lectr.

Sr. Lectr.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

Prof.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

Prof.  
Prof.

Lectr.  
Lectr.

Lectr.  
Lectr.

†Lectr.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

Prof.  
Sr. Lectr.

Sr. Lectr.  
Lectr.

Lectr.  
Lectr.

Lectr.  
Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Engineering, see below****English Language and Literature**

Pence, F. T., MA <i>Oxon.</i>	Prof
Sharrock, R. I., MA BLitt <i>Oxon</i>	Reader
Brooks, K. R., MA DPhil <i>Oxon</i>	St. Lectr.
Swannell, J. N., BA <i>Lond.</i>	Lectr.
Osseltun, N. E., BA <i>Lond.</i>	Lectr.
Duncan, D. J. M., BA <i>Oxon</i>	Lectr.
Powell, J., BA <i>Camd.</i>	Asst Lectr.

**French**

Hackett, C. A., MA <i>Camd.</i> , DUParis	Prof
Beaumont, E., MA PhD <i>Lond</i>	St Lectr
Foster, B., MA <i>Durb.</i> , DUParis	Lectr
Scott, J. W., BA <i>Lond</i>	Lectr
Hall, Kathleen M., MA DPhil <i>Oxon.</i>	Lectr
Palvey, J. F., BA <i>Nott.</i>	Lectr
Burns, C. A., BA PhD	Lectr
Williams, D., BA <i>Birm</i>	Asst Lectr
Eastman, Mrs. Samson P.	Lectrice
2 Lecturers	

**Geography**

Monkhous, F. J., MA <i>Camd.</i>	Prof.
Tavener, L. E., MA <i>Camd.</i> , PhD <i>Lond.</i>	
Peelham, R. A., MA <i>Water</i> , PhD <i>Birm.</i>	St Lectr.
Robinson, G. W. S., MA <i>Lond.</i>	Lectr.
Small, R. J., BA <i>Camd.</i> , PhD	Lectr.
Bailey, R. G., BA <i>Lw.</i> , MSc <i>McG</i>	Lectr.
Thompson, I. B., BA PhD <i>Durb.</i> , MA <i>Indiana</i>	Lectr
Birch, B. P., BA <i>Durb.</i> , MA <i>Indiana</i>	Asst. Lectr.

**Geology**

Hodson, F., BSc <i>Lond.</i> , PhD <i>Rdg.</i>	Prof
Woods, Dorothy E., MSc, FGS	Lectr.
Shelford, P. H., BSc DipEd <i>Rdg.</i>	Lectr.
Cosgrove, M. E., BSc <i>Lond.</i>	Lectr.
Moore, D., BSc PhD <i>Lond.</i>	Lectr.

**German**

Lucas, W. I., MA <i>Brist.</i> , PhD <i>Hendel.</i>	Prof.
Wilson, W. L., MA <i>Edin.</i>	Lectr.
Papst, E. E., MA <i>Cape T</i>	Lectr.
White, D. V., MA <i>Birm.</i>	Lectr.
Oades, Iris K., BA <i>Lond.</i>	† Lectr.
Steer, W. A. J., BA <i>Camd.</i>	Asst Lectr.
2 Lecturers	

**History**

Rothwell, H., BA <i>Manc.</i> , PhD <i>Camd.</i>	Prof.
Bromley, J. S., MA <i>Oxon.</i> , FRHistS	(Mod. H.) Prof.
Patterson, A. T., MA <i>Durb.</i>	Reader
Hanna, A. J., BA <i>Belf.</i> , PhD <i>Lond.</i>	St. Lectr.
Merson, A. L., MA <i>Oxon</i>	Lectr.
Pugh, T. B., MA BLitt <i>Oxon.</i>	Lectr.
Mathoi, F. C., MA <i>Manc.</i>	Lectr.
Blake, E. O., MA PhD <i>Camd.</i>	Lectr.
Bull, J. N., MA PhD <i>Camd.</i>	† Lectr.

Hard, G. H., MA <i>Durb.</i> , DPhil <i>Oxon.</i>	Lectr.
Haffenden, F., BA PhD <i>Lond.</i>	Lectr.

**Law**

Phillips, A., OBE, JP, MA <i>Oxon.</i> , PhD <i>Lond.</i>	Prof., Dir
Martin, A., LL.D. DPhil <i>Sc. Bnd.</i> , PhD <i>Lond.</i>	† Reader
Wilson, J. F., MA <i>Oxon</i>	St Lectr
Samuels, H. A., BA <i>Camd.</i>	Lectr.
Gent, Gabriele, LL.M. <i>Lond.</i>	Lectr
Dyer, L. M., BA	† Lectr
Genard, Antonio S	† Lectr.
Angier, D. W. D., BA <i>Oxon.</i>	† Lectr.
Cameron, Sheila, BA <i>Oxon.</i>	† Lectr
Garns, R. P., BA <i>Oxon</i>	Asst Lectr

**Mathematics, Pure and Applied**

Davies, E. T., DSc PhD <i>Lond.</i> , DMath <i>Reus</i> (Pure M.) Prof	
Jahn, H. A., MSc <i>Lond.</i> , PhD <i>Leip</i> (Appl. M.) Prof	
Thwaites, B., MA <i>Camd.</i> , PhD <i>Lond</i> (Theoret. Mechanics) Prof.	
Clark, R. S., MSc <i>Lond.</i> , PhD <i>Camd.</i>	St. Lectr.
Davies, H. J., BSc PhD <i>Wales</i>	St. Lectr
Heading, J., MA PhD <i>Camd.</i>	St. Lectr.
Wilson, Miss Nancy, MA <i>Edin.</i>	Lectr.
Beckell, F., BSc PhD <i>Lond.</i>	Lectr
Schoeland, D., BSc <i>Rhodes</i> , MA PhD <i>Birm</i>	Lectr
Deicke, A. W	Lectr.
Cohen, L., MA <i>Camd.</i> , PhD <i>Manc.</i>	Lectr
Rhodes, F., BSc PhD <i>Lw</i>	Lectr
Wilks, J. B., BSc <i>Lond</i>	Lectr
Marder, L., PhD <i>Lond.</i> , BSc	Lectr.
Gibben, R. J., BSc PhD <i>Manc.</i>	Lectr.
Bastop, V. J. D., BSc <i>Birm.</i>	Lectr
Holstein, H., PhD <i>Gott</i>	Lectr
Maunder, C. R. F., BA <i>Camd</i>	Lectr
Kirby, D., BSc PhD <i>Lond</i>	Lectr.
Turner-Smith, R. F., BSc <i>Birm</i>	Lectr
Houston, A. G., MSc PhD <i>Manc</i>	Lectr.
2 Res' Fellows	

**Computation**

Samet, P. A., BSc <i>Manc.</i> , PhD <i>Camd</i>	St Lectr., Du.
Cleaves, J. P., PhD <i>Lond.</i> , BSc	Lectr.
Burnett-Hall, D. G., BA <i>Camd.</i>	Lectr.

**Music**

Evans, P. A., MA DMus <i>Durb.</i> , FRCO	Prof
Brown, D., BMus MA DipEd <i>Sheff.</i>	Lectr.

**Philosophy**

MacIver, A. M., MA <i>Oxon</i>	Prof.
Manser, A. R., MA BPhil <i>Oxon.</i>	Lectr.
Robinson, G. S., MA <i>Hav</i>	Lectr.

**Physics**

Taylor, A. M., MA PhD <i>Camd.</i> , FIP	Prof.
Hutchinson, G. W., MA PhD <i>Camd.</i>	† Prof.
Weintraub, S., MA <i>Oxon.</i> , FIP	St. Lectr.

Jernard, H. G., BSc <i>Land.</i>	Sr. Lectr.
McNeill, D. B., MSc PhD <i>Belf.</i>	Lectr.
Kellner, K., PhD <i>Bahn.</i>	Lectr.
Myers, W. R., MSc <i>Land.</i>	Lectr.
Mercer, D. M. A., BSc <i>Land.</i> , MA <i>Camb.</i>	Lectr.
Scullock, R. G., BSc DPhil <i>Oxon.</i>	Lectr.
Hopkins, B. J., MSc <i>Birm.</i>	Lectr.
Mee, C. H. B., BA <i>Camb.</i> , MSc <i>Birm.</i>	Lectr.
Ramadan, D., BSc PhD <i>Birm.</i>	Lectr.
3 Res. Fellows	

Shelton, G., BA PhD <i>Camb.</i>	Lectr.
Lockwood, A. M. P., BA PhD <i>Camb.</i>	Lectr.
1 Res. Fellow	

## ENGINEERING

## Aeronautics and Astronautics

Richards, E. J., OBE, MA <i>Camb.</i> , DSc <i>Wales</i>	Prof.
Davies, P. O. A. L., BE <i>Syd.</i> , PhD <i>Camb.</i>	Sr. Res. Fellow

<b>Physiology and Biochemistry</b>	
Munday, K. R., BSc <i>Alanc.</i> , PhD <i>Aberd.</i>	Prof.
Kerist, G. A., MA PhD <i>Camb.</i>	Sr. Lectr.
Beechey, R. B., BSc PhD <i>Leeds</i>	Lectr.
Clements, A. N., BSc <i>Brust.</i> , PhD <i>Camb.</i>	Lectr.
Walker, R. J., BSc PhD	Asst. Lectr.

<b>Social Sciences</b>	
Rowan, D. C., BA <i>Brist.</i>	(Econ.) Prof.
Pearce, I. F., BA <i>Brust.</i> , PhD <i>Nott.</i>	(Econ. Theory) Prof.
Young, Agnes F., MA <i>Liv.</i>	(Soc. Studies) Sr. Lectr.

Hodgson, R. A., BCom DPA <i>Leeds</i>	(Comm. & Acctg.) Sr. Lectr.
Theobald, C. J., BSc <i>Wales</i> , MSc (Econ) <i>Leeds</i>	(Econ. Stats.) Sr. Lectr.
Richards, P. G., BSc (Econ) <i>Leeds</i> , PhD	(Govt.) Sr. Lectr.
Dunning, J. H., BSc (Econ) <i>Leeds</i> , PhD	Sr. Lectr.
Tissler, G. B., BA <i>Ess.</i> , BSc (Econ)	PhD <i>Leeds</i>

Hart, H., BA (Com)	(Comm. & Acctg.) Lectr.
Burles, E. B., BSc (Econ) <i>Leeds</i>	(on leave) (Econ. Stats.) Lectr.
Davison, Evelyn H., BA <i>Lev.</i>	(Soc. Studies) Lectr.
O'Connell, Patricia E.	(Health Visitors' Course) Lectr.
Vale, V., MA <i>Camb.</i>	1 Lectr.
Broady, M., BA <i>Liv.</i>	(Soc. Studies) Lectr.
Denton, G. R., BA <i>Oxon.</i>	Lectr.
Prussmann, D. F., BA (Com) <i>Manc.</i>	Asst. Lectr.
Gleadow, M., BCom <i>Birm.</i>	Asst. Lectr.
Holden, B., BA <i>Keele</i>	Asst. Lectr.

<b>Spanish</b>	
Glendinning, O. N. V., BA PhD <i>Camb.</i>	Prof.
Kerr, R. J. A., MA <i>Glas.</i>	Lectr.
Moir, D. W., MA <i>Aberd.</i>	Lectr.
1 Lectr.	

<b>Theology</b>	
Parkinson, Rev. K. E. H., MTh BD <i>Leeds</i>	Lectr.

<b>Zoology</b>	
Raymont, J. E. G., BSc <i>Leeds</i> , AM <i>Harv.</i>	Prof.
Hall, R. E., BSc <i>Leeds</i>	Lectr.
Hockley, A. R., BSc <i>Leeds</i>	Lectr.
Fairbairn, W. J., BSc <i>St. And.</i>	Lectr.
Delany, M. J., MSc <i>Manc.</i>	Lectr.

Jones, J. P., BSc (Eng) <i>Leeds</i> , PhD	Reader
Curle, S. N., PhD <i>Manc.</i>	Reader
Bow, K. N. C., BA MSc (Eng)	Sr. Lectr.
Tanna, T.	Lectr.
Mead, D. J.	Lectr.
Talbot, I., MSc <i>Leeds</i>	Lectr.
Clayton, B. L., BSc PhD <i>Leeds</i>	Lectr.
Parks, P. C., BA <i>Camb.</i>	Lectr.
Appleton, J. P., BSc PhD	Lectr.
Doak, F. E., MSc (Phys) <i>Ow. Wales</i>	Lectr.
Gladwell, G. M. L., BSc PhD <i>Leeds</i>	Lectr.
6 Res. Fellows	

## Engineering, Civil

Moore, P. B., BSc <i>Brust.</i> , PhD <i>Leeds</i>	Prof.
Tottenham, H., MA <i>Camb.</i>	Reader
Webber, N. B., BSc (Eng) <i>Leeds</i>	Lectr.
Rydrewski, J. R., BSc PhD <i>Camb.</i>	Lectr.
Allen, H. G., BSc PhD <i>Liv.</i>	Lectr.
Smith, K. V. H., MSc <i>Leeds</i>	Lectr.
Butterfield, R., BSc (Eng) <i>Leeds</i>	Lectr.
Coull, A., BSc (Eng) PhD <i>Aberd.</i>	Lectr.

## Engineering, Electrical

Sims, L. G. A., PhD DSc <i>Buss.</i>	Prof.
Stevens, R. E., BSc <i>Belf.</i>	Lectr.
Yorke, R., BSc <i>Leeds</i> , BEng <i>Sheff.</i>	Lectr.
Murphew, K. L., BSc (Eng) <i>Leeds</i>	Lectr.
Weedy, B. M., BSc (Eng) <i>Leeds</i>	Lectr.
Morgan, K., BSc MSc (Eng) <i>Leeds</i>	Lectr.
Ward, E. E., BSc PhD <i>Birm.</i>	Lectr.
Carré, B. A., BA <i>Oxon.</i>	Lectr.

## Engineering, Mechanical

Black, A. N., MA <i>Camb.</i>	Prof. Admin. Hd. of Engrg. Dept.
Grassam, N. S., BSc (Eng) PhD <i>Leeds</i>	Sr. Lectr.
Sara, H. J., BSc (Eng) <i>Leeds</i>	Lectr.
Heimer, C. H., BSc (Eng) <i>Leeds</i>	Lectr.
Williams, T. R. G., MSc <i>Wales</i>	Lectr.
Jolley, E. S.	Lectr.
Payle, R. J., BSc (Eng) PhD <i>Leeds</i>	Lectr.
Hunt, J. E., BSc (Eng) <i>Leeds</i>	Lectr.
Page, R. W., BSc <i>Brist.</i>	Lectr.
Spencer, G. C., BSc <i>Leeds</i>	Lectr.
Thew, M. T., BSc <i>Leeds</i>	Lectr.

## INSTITUTE OF EDUCATION

Wagner, F. W., MA <i>Oxon.</i> , DSc <i>Aberd.</i>	Dir.
Loeb, K. M., MA PhD <i>Leeds</i>	Sec.

Evans, E. G. S., MA PhD *Birm* Lectr., Tutor  
Douch, R., MA *Lond* Lectr.

### ADULT EDUCATION

Du : H. J. Tromp, MA Camb Tutor Or-  
ganizers : J. R. Armstrong, MA Camb., R.  
Mullins, BA *Lond*; A. G. Geddes, BA

*Lond*, P. J. De Grouchy, MA *Oxon*, E.  
Course, BSc(Econ) *Lond*, PhD, K. F. Jay,  
BA *Lond*, LLD *Leip*; F. A. Olett, MA  
Camb.; E. C. Read, MA Camb., BSc(Econ)  
*Lond*, Res. Tutor with H.M. Forces :  
D. C. Hawkins, BSc(Econ) *Lond*, D. W.  
Braddock, BA *Birm*, E. M. G. Belfield, MA  
*Oxon*; E. J. Feuchtwanger, MA Camb.,  
PhD

### ADMINISTRATIVE AND OTHER STAFF

Asst Secs Mrs. Nancy H. Hall, D. A.  
Schofield, MA, J. V. Smith Works & Bldgs  
Officer. J. P. Halliwell, BA Arch *Leu*. Asst Works  
& Bldgs. Officers : D. H. Bradnam, R. White-  
horn. Sr Admin. Asst : E. A. Lewis, MA *Glas*.  
Asst Finance Officer : W. H. Clayton Asst  
Accountant. F. T. R. Amoy Aspts Officer  
L. E. Tavener, MA Camb., PhD *Lond* Radiation  
Protection Officer. W. R. Myers, MSc *Lond*  
Secretary's Private Sec. Mary E. Pence.  
Librarian, Ford Papers. Diana M. Marshall, BA  
*Lond*. Librarian, Inst. of Educn. Joan V.  
Best, BA *Brist*. Admin. Asst., Inst. of Educn.  
Mrs. Theodora F. Cornack Admin. Asst to  
Dir. of Adult Educn. : Ethel V. Turner, BA *Lond*.  
Clerk of Works H. C. Doonan Lodgings

Officer Dilys B. E. Jenkins, BA *Lond*, DipEd  
*Hull*. Adviser to Overseas Students. Prof. A.  
Phillips, MA *Oxon*, PhD *Lond*.

LIBRARY. Dep Librarian : R. G. Woods, MA  
Camb. Sr Asst. Librarians : A. Anderson, MA  
*Edin* & *Ston*, M. B. Linn, MA *Oxon* Asst  
Librarians W. R. C. Longley, BA Camb.; P.  
Wilkinson, BA *Brist*; T. C. Fawcett, BA *Leeds*;  
G. Hampson, MA Camb., FLA

WARDENS OF HALLS OF RESIDENCE. J. N. Ball,  
MA PhD Camb. (Connaught Hall); Elizabeth U.  
Lightbody, MA *Edin*. (Highfield Hall); V. Vale,  
MA Camb. (South Stoneham House); H. C. H.  
Mead, BA Camb. (Glen Eyre Hall); Iris K.  
Oades, BA *Lond*. (Chamberlain Hall).

### GENERAL INFORMATION

The Univ. originated in the Hartley Instn.  
which was establd. from a bequest by H. R.  
Hartley, son of a Southampton wine merchant,  
who died in 1850. The instn., opened in 1862,  
was incorporated in 1902 under a scheme of the  
Bd. of Educn. as the Hartley Univ. Coll. at  
Southampton, and from that date until the  
establd. of the Univ. students read for the external  
degrees of London Univ. The coll. was accomm.  
in the premises in the High St. built for the instn.  
until 1919 when it moved to the present site at  
Highfield, 2 mls. from the centre of the town. In  
1953 the coll. was merged in the Univ. of South-  
ampton, constituted by royal charter in 1952.

The town and port of Southampton (pop.  
205,000) is on the S. coast of England 80 miles  
S.W. of London.

CONSTITUTION. The court is the supreme  
governing body of the Univ. and the council is the  
executive body, managing revenue and property  
subject to statutes and to control of court. The  
senate regulates and superintends educn. and  
discipline subject to statutes and to approval of  
council. The chancellor, elected by court on  
nomination of council, is the chief officer of the  
Univ. and the pre-chancellors exercise the func-  
tions of the chancellor in his absence. The vice-  
chancellor, apptd by council, is the principal  
academic and admin. officer and is *ex-officio* chair-  
man of senate. Bds of Facs. regulate, subject to  
review by senate, the teaching of subj. assigned

to them. The registered grade and academic  
staff of the Univ. form convocation which may  
report its views on any matter relating to the Univ.  
to the appropriate body.

INCOME (1960-61). Total income (excl. income  
from tech. educn. and halls of residence),  
£890,403 (Treasury grant, 69.4 per cent.; local  
authority grants, 3.4 per cent.; fees, 10.5 per  
cent.; endowments, 0.4 per cent.; other sources,  
incl. external res. grants & contracts, 16.3 per  
cent.).

FACULTIES AND DEANS (1962-63). Asst. Prof.  
F. T. Pinnock (Engl.), *educn*, Prof. F. W.  
Wagner; *engin*, Prof. E. E. Zepher (electronics),  
*law*, J. F. Wilson; *sci.*, Prof. J. E. G. Raymont  
(zool.); *soc. sci.*, Prof. D. C. Rowan.

UNIVERSITY PRECINCT (see also above). The  
main bldg., opened in 1935, houses the librs. with  
depts. of the fac. of arts in adjacent wings. The  
other teaching bldgs. and the union bldg. are in  
the same area, occupying an all about 30 acres.  
It is hoped to acquire adjacent ground for future  
academic devels. The halls of residence and  
Montefiore and Wellington sports grounds (35  
acres) are within 1-2 mls. of the main area.

LIBRARY. Main lib. and dept. librs. : about  
150,000 vols. Current periodicals : about 1500.  
The Ford collection of British parliamentary  
papers, 1801 to date, is housed in the fac. of soc.  
sciences bldg.

## MUSEUM. Zool.

**LABORATORIES.** Bot., chem., electronics, engin. (civil, electr., mech., aeronaut.), geol., phys., physiol., zool.; animal house, bot. gdn., Pegasus computer, hydraulic tidal model.

## ADMISSION See Appendix III.

**FIRST DEGREE.** BA—all students are candidates for an hon. degree, but those failing to obtain hon. may be awarded a pass. The degree may be taken in the following single hon. schools: classics, Engl. French, geog., German, Greek, hist., Latin, maths, philos., Spanish, or in any of the following combined hon. schools: Engl. & French or German, Engl. & Greek, Engl. & Latin, Engl. & hist., Engl. & music, Engl. & philos., Engl. & Spanish, French & German, French & Latin, French with hist., French & music, French & Spanish, French & philos., geog. & hist., German & Greek, German & Latin, German & philos., German with hist., German & music, Greek & philos., Greek & theol., hist. & theol., Latin & theol., Latin & philos., mod. hist. with pol. & econ., mod. hist. & music, hist. & philos., Latin & Spanish, Latin & mediev. hist., music & Spanish, philos. & pol., philos. & pure maths, philos. & theol., Spanish with hist.; BSc ordinary (entry only from 1st yr. on BSc hon. course)—2 subjs. for 3 yrs in all, with hist. & methods of sci. for 1 yr., BSc hon. (pt. I exam. at end of 2d yr., pt. II at end of 3d yr.)—may be taken in 1 of the schools of bot., chem., electronics, geog., geol., maths (pure & appl.), maths. with aeronautics, maths. with electronics, phys., physiol. & biochem., zool. Pass degree may be awarded to a candidate who does not attain hon. standard. BSc(Eng)—ordinary and hon. (civil, electr., mech., aeronaut., struct. engin.) BSc(Social Sciences) hon. and pass—2 main subjs. chosen from econ., sp. econ., pol., econ. hist., sociol., accountancy, stats., geog., industry & trade, philos. Also 1 addnl. subj. and a dissertation. Pass degree may be awarded to a candidate who does not attain hon. standard. BA(Law)—hon. and pass. All degrees, except BA in French and some combinations with French, are awarded after a 3-yr. course provided that certain entrance requirements, particularly for hon. courses, are met. Students who have passed exams. at other univ., etc., may, with sp. permission, be allowed to count these as equivalents, but all students must study at the univ. for at least 6 terms full-time to qualify for a 1st degree BA hon. in French requires 4 yrs. of study, the 3d yr. being spent in France.

For BSc(Eng) many students spend a yr. in industry between leaving sch. and entering the univ.; usually a 2d yr. in industry follows the univ. course, but some students spend their 2d yr. in industry between the 2nd and 3d yrs. of the univ. course.

All undergrad. freshmen on 1st degree courses attend, outside their own fac., a series of open lectures followed by informal evg. discussions, and other activities connected with these lectures.

The LLB is awarded as a 2nd degree after a further period of study extending over not less than 3 academic terms and following completion of BA(Law) of the univ. Holders of the BA(Law) degree may apply for exemption from certain subjs. in pt. I of the Bar exams, and from certain requirements laid down by the Law Soc. for solicitors & articled clerks.

**HONOR DEGREE.** MA, MSc, MSc(Eng), MSc(Social Sciences), MA(Ed), LL.M. (1-2 yrs. after bachelorship), open to grads. of the univ. and of other approved univs., MA(Ed) in fac. of educ. and MSc, MSc(Eng) and PhD in fac. of sci. and engin. also open to non-grads. on certain conditions and with sp. approval. MSc may, with sp. permission, be taken by grads. after a further 3 mos' study following the dipl. course in electronics or in numerical analysis & automatic computing. MSc(Eng) may be taken after a course of not less than 12 mos. in vibration & noise studies, and in advanced struct. engin. PhD (2 yrs.), open to grads. of U.K. univs. and other approved univs. Degrees of master or of PhD may with sp. permission be taken on a pt.-time basis (36 calendar mos.) by grads. This permission is not accorded to non-grads.; 1 grade of the univ. may obtain DLitt, DSc, DSc(Social Sciences) and LL.D. 6 yrs. after 1st graduation.

The univ. does not award **EXTERNAL DEGREES.**

**SPECIAL PROVISIONS.** Sp. provision for aeronautical students (low and high speed wind tunnels); aircraft manufacturing firms in district provide opportunities for keeping in close touch with practical aircraft construction.

**DIPLOMAS.** Soc. studies, 1 calendar yr. postgrad.; electronics, 1 yr. postgrad.; numerical analysis & automatic computing, 1 yr. postgrad.; vibration & noise studies, 1 calendar yr. postgrad.; advanced struct. engin., 1 calendar yr. postgrad.; pub. admin., 2 yrs. (pt.-time courses arranged for local govt. officers); educn., 3 yrs. pt.-time for qualified teachers; art teachers', 1 yr. Last 2 awarded by Inst. of Educn.

**CERTIFICATES.** Soc. coursework, 1 calendar yr.; soc. studies, 2 yrs.; Inst. of Educn. cert. in educn., 1 yr. postgrad. Students who have obtained the cert. in soc. coursework may undertake a further 4 mos. course in mental health, the satisfactory completion of which will be separately recorded.

**OTHER COURSES.** Health visitors' course: in co-operation with public health authorities of the surrounding area, the univ. offers a 1-yr. course leading to the exam. for health visitor cert. of the Royal Soc. of Health. Course of integrated nurse/health visitor trg. organized jdy. by the univ. and the Nightingale Trg. Sch. at St. Thomas's Hosp., London; course covers 4 yrs. 9 mos.; final qualifs. include S.R.N., pt. 1 of C.M.B. and health visitor cert. of the Royal Soc. of Health. Further particulars of these courses obtainable from the principal tutor to the health visitors' course.

**ALLIANCES.** Regular schemes for exchange of students with Europa-Kolleg, Hamburg and univs of Hamburg and Kansas.

**STUDY LEAVE.** One term's leave of absence may be granted subject to satisfactory provisions for continuity of teaching.

**FEES.** *Inclusive annual fees* (covering matric, registration, tuition, exams, and graduation, but not students' union or hall pt. common room subs.). Bachelor's degrees in arts, soc. sci., and law, £60, sci. and engin., £75. Dipl. soc. studies, £60, electronics, numerical analysis & automatic computing, vibration & noise studies, and advanced struct. engin., £75; pub. admin., full-time £60, pt.-time £40, educn. (pt.-time), £10 plus £5 exam fee at end of course. Certs. soc. casework, £75, with addnl fee of £35 for psychiatric course work, soc. studies, educn., £60. Higher degrees, £60 without lab facilities, £75 with lab facilities. Students' union fee (compulsory), £7; 7s. p.a. Hall jr. common room fee, £1; 1s. p.a.

**ACADEMIC YEAR.** Oct. to July; 3 terms of 10 weeks each.

**ADULT EDUCATION** (see also 'Teaching Staff', above). The dept. of adult educn. provides courses covering a wide range of non-vocational subjs. for groups of adult students in Hampshire, W. Sussex, E. Dorset and the Isle of Wight. Extension courses and tutorial classes are organized under the direction of the Jt. Cttee. for Adult Educn. The panel of extension lectrs. and tutors includes members of the univ. staff and other approved teachers.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). *Constituent members.* Univ. Dept. of Educn.; The Trg. Coll., Bognor Regis; Bournemouth Coll. of Art; City of Portsmouth Trg. Coll.; Avenue Trg. Coll., Southampton; Weymouth Trg. Coll.; King Alfred's Coll., Winchester. *Associated coll.* Southampton Coll. of Art, Marsh Lane, Southampton.

**STUDENTS' UNION.** All full-time students are required to be members of the students' union, which is responsible for the orgn. of various soc. cultural and athletic activities.

**ATHLETIC UNION.** Facilities are provided for all the union branches of sport, including rugby and association football, cricket, rowing, hockey, tennis and athletics.

**SCHOLARSHIPS AND EXHIBITIONS.** The univ. offers annually, on the results of a competitive exam. held in Feb., (a) 24 open scholrs. of values from £40 to £100 p.a., all tenable for 3 yrs; (b) 4 open exhibitions; 4 exhibitions to candidates resident in borough of Southampton; 2 social studies exhibitions. Exhibitions are of the value of £30 p.a.

**POSTGRADUATE AWARDS** open to grads. of other univs: see p. 910.

**LOAN FUND.** A fund is available to help sr. students in need of financial assistance.

**HALLS OF RESIDENCE** (For wardens, see 'Admin. and Other Staff', above). All full-time undergrad. students must ordinarily reside in one of the halls of residence or in approved lodgings, unless living with parents or guardians in Southampton. The halls are: for women—Highfield Hall, Ouseburn Rd., Southampton, 108 places (tel. Southampton 55483), Charnelham Hall, Glen Eyre Rd., Bassett, Southampton, 180 places (tel. Southampton 69564), for men—Connaught Hall, Swaythling, Southampton, 127 places (tel. Southampton 54402), South Stoneham House, Swaythling, Southampton, 200 places (tel. Southampton 55627), Glen Eyre Hall, Glen Eyre Rd., Bassett, Southampton, 250 places (tel. Southampton 68959). Fees for session: women, £130, men, £130-£135, not incl. lunches or tea.

**Approved Lodgings.** A fee of £3. 10s. to £4 p.w., not incl. lunches or teas, is payable by the student to the landlady and an admin. fee of £5 per session or £2 per term is payable to the univ. from which the univ. pays vacation retaining fees to the landlady.

**UNIVERSITY AIR SQUADRON.** The univ. squadron was estab. in 1941. Membership is open to all students. All entrants become members of the R.A.F.V.R. C.O.—S/Ldr D. A. V. Johnson.

**THE HARTLEY SOCIETY.** This is a former students' assocn., membership of which is open to all former students. There is a branch in London.

**STUDENTS' HEALTH.** There is no fully estab. health service, but each hall of residence has its med. officer, and arrangements are made for the mass radiography of all students.

**APPOINTMENTS BOARD.** (For appts. officer, see 'Admin. and Other Staff', above). The bd. advises students about careers; collects and distributes information on vacancies in employment; establishes contact with technical firms, business houses, govt. depts., etc., with a view to placing students in employment.

**SCHOOL OF NAVIGATION, WAREHAM, Southampton.** Dir.: Capt. G. W. Wakeford; hd. of sr. dept.: Capt. A. Nichols; dep. dir. & hd. of jr. dept.: Capt. H. Stewart.

**PUBLICATIONS.** *Calendar* (Oct.), 10s. 6d.; *Proceedings* (Dec.); *Handbook* (annual) Students' Union; *Wessex News* (fortnightly); *Second Wessex* (annual mag.); *Centenary history*; *The University of Southampton*, by A. Temple Patterson (Univ. of Southampton, 1962), 29s.

## THE YEAR 1961

MAJOR BUILDING DEVELOPMENTS *Buildg. completed*: phys. extension, Inst of Educn extension. *Approaching completion*: chem extension; Glen Eyre Hall extension (100 residents).

NEW CHAIRS *Musac*, physiol. & biochem., Spanish.

RETIREMENTS W. C. R. Hicks (Inst of Educn); P. H. Sawyer (finance officer).

RESIGNATIONS S. I. Benn (econ.), apptd sr. fellow in philos., A.N.U.; D. J. Cook (Engl.), apptd lectr in Engl., Makerere U.C.; J. Cawelshank (French), apptd. to chair of French, Sds; J. P. Elbot (maths.), apptd. sr. lectr in theoret. phys., Sus; D. M. Ellis (library), apptd. sub-librarian, Swansea; D. C. Large (geog.), apptd. warden, St Patrick's Hall, R'dg.; R. E. Fawkes (chem.), apptd. sec. & registrar, Royal Inst of Chem.; A. F. E. Tine (Laval engin.), apptd. lectr in engin., Luc; T. C. Whitmore (bot.), apptd. forest botanist, Solomon Islands.

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1296	64
Women . . .	503	14
Total . . .	1799	78

Distribution by Faculties *Arts*, 143; *econ.*\*, 226; *educn.*, 137; *engin.*, 344; *law*, 104; *sci.*, 623. Total: 1877.

Included in the figures above are —

Postgraduate students, 348  
New admissions, 733 (688 full-time, 45 pt-time)

Students from other countries, 113 (113 full-time, 20 pt-time) (Countries from which largest numbers came: Germany, 20, Nigeria, 10; India, 9)

DEGREES AWARDED (1960-61) *Arts* BA gen., 26; BA hon., 78; BA (segment), 2; MA, 2. *Econ.* BSc(Econ), 33. *Engin.* BSc(Eng) ord., 30; BSc(Eng) hon., 40; MSc(Eng), 3. *Law* BA(Law), 12. *Sci.* BSc gen., 28; BSc spec., 114; MSc, 1. PhD (all firms): 25. Total number of first degrees awarded, 363.

DIPLOMAS AWARDED (1960-61) *Electronics*, 20; *sci* studies, 1.

CERTIFICATES AWARDED (1960-61). *Postgrad.* cert in educn, 99; *sci* casework, 12; *sci* studies, 19; *health visitors* (Royal Soc of Health), 14.

\* The title of the fac. of econ. has been changed to the 'fac of social sciences' from Oct. 1962.



## UNIVERSITY OF SUSSEX\*

Founded 1961

Postal Address: Stanner House, Stanner, Brighton, England

Telephone: Brighton 66755

VICTOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. THE VISCOUNT MONCKTON OF BRENCHLEY, KCMG, KCVO, MC, QC,  
MA Hon DCL Oxon., Hon LLD Brit.

CHAIRMAN OF THE COUNCIL AND SENIOR PRO-CHANCELLOR—Alderman S. M. CAPFYN, CBE, ARSM

PRO-CHANCELLOR—The Rt. Hon. THE LORD SHAWCROSS, QC, Hon LLD Brit., Col &amp; Mich

VICE-CHANCELLOR—J. S. FULTON, MA Oxon

TREASURER—Sir HUGH BRAVER, KBE, Hon LLD Dub.

PRO-VICE-CHANCELLOR—Professor ASA BRIGGS, MA Oxon. &amp; Camb., BSc(Econ) Lond., FRHistS

REGISTRAR—A. E. SHIELDS, MBE, MA Camb.

LIBRARIAN—D. COX, BA Durb

## TEACHING STAFF

[†=Part-Time]

Chemistry		German	
Eaborn, C., PhD DSc Wales, FRIC	Prof.	Theobly, A. K., MA Camb., PhD Yale	Lectr.
Feeling, E. R. A., BSc PhD Lond., FRIC			
History		History	
Benwell, C. N., MA PhD Camb.	Sr Lectr.	Briggs, A., MA Oxon & Camb., BSc(Econ) Lond., FRHistS	Prof.
Bishop, E. O., BSc MA DPhil Oxon.	Lectr.	Wight, R. J. M., BA Oxon (European H)	Prof.
Jackson, R. A., MA DPhil Oxon.	Lectr.	Hust, M. G., BLitt MA Oxon., FRHistS	Lectr.
Smith, J. D., MA PhD Camb.	Lectr.	Kearney, H. F., MA Camb., PhD N U I	Lectr.
Pidcock, A., MSc Manc.	Asst. Lectr.	Supple, H. E., BSc(Econ) Lond., PhD Camb.	Lectr.
Economics		Mathematics	
Barns, T., BSc(Econ) PhD Lond	Prof.	Scott, D. B., MA Camb., DSc Lond	Prof.
Routh, G. G. C., BCom Rand, PhD Lond	Lectr.	Ledermann, W., PhD St And., DSc Edu.	Reader
Lapton, M., BA Oxon	Lectr.	Rogers, Ruth H., MSc PhD Lond.	Lectr.
Dormen, E. C., BA Oxon, MA Yale	Asst. Lectr.	Trustum, G. H., BA Camb	Lectr.
English		Philosophy	
Daiches, D., MA Edu & Oxon., DPhil Oxon., FRSL	Prof	Corbett, J. P., MA Oxon.	Prof.
Jamieson, M. S., MA Aberd	Lectr.	Honderich, E. D. R., BA Yar.	Lectr.
Lerner, L. D., MA Cape T., BA Camb	Lectr.	Hunt, I., BPhil MA Oxon.	Lectr.
Mutter, R. P. C., MA Oxon.	Lectr.	Moran, J. M., BA Keele	Lectr.
Ross, A. M., MA St. And., PhD Camb.	Lectr.	Diamond, Cora, BA Swarthmore, BPhil Oxon.	Asst. Lectr.
Nuttall, A. D., BA Oxon.	Asst. Lectr.		
Oldfield, Mrs. Sybil, MA Cant	Asst. Lectr.	French	
French		Cruickshank, J., MA PhD Dub.	Prof.
		John, S. B., MA Wales	Lectr.
		Brereton, G., BA Oxon., Dèsl. Paris	†Lectr.
Geography		Geography	
Elkins, T. H., BA Lond	Prof.	Duffey, T. J., BA Brit	Tutor

\* Member of the Association of Universities of the British Commonwealth

## Physics

- Smith, K. F., MA PhD Camb. (Exper. P.) Prof  
 Blun-Stoyle, R. J., MA DPhil Oxon.  
 (Theoret. P.) Prof  
 Brewer, D. P., MA DPhil Oxon.  
 (Exper. P.) Sr Lectr.  
 Elliott, J. P., BSc PhD Lond.  
 (Theoret. P.) Sr Lectr.  
 Allen, L., BSc PhD Lond. (Exper. P.) Lectr.  
 Grassie, A. D. C., MA Aberd. & Camb.  
 (Exper. P.) Lectr.  
 Hamilton, W. D., BSc Belf., MSc PhD Biru  
 (Exper. P.) Lectr.  
 Turner, R. E., BSc PhD Lond., MA Oxon.  
 (Theoret. P.) Lectr.

- Jones, D. G. C., BSc Lond.  
 (Exper. P.) Asst. Lectr.  
 Wilford, M. J., BSc PhD Lond.  
 (Theoret. P.) Asst. Lectr.  
 Turley, R. V., BSc S'west. (Theoret. P.) Tutor  
**Politics**  
 Lively, J. F., BA Camb. Lectr.  
 Warner, M., BA Camb. Asst. Lectr.  
**Russian**  
 Milner-Gulland, R. R., BA Oxon. Asst. Lectr.  
**Social Studies**  
 Pappe, H. O., DPhil Bras. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Reg.: G. Lockwood, BSc (Econ) Lond.  
 Bldgs. Officer: T. C. Green, BArch Luv. Accountant: R. S. Howard, MA Camb. Sub-Librarian: A. Blumie, MA Oxon. Admin. Asst.: Mary M. Coppinger, BSc Lond.

Christine J. Whitbourn, BA Natl., R. D. Morris, BSc Brist., H. C. Jones, BA Wales, M. R. Orr, BA Hull; E. J. Leck; R. M. Mawditt; Penelope M. Phillips

## GENERAL INFORMATION

The idea of a Univ. Coll. of Sussex was first discussed in 1911, when it was suggested that such a coll. should be established at Brighton and recognized as a constituent part of the Univ. of London. An appeal for funds was launched and about £2000 was collected, but on the outbreak of the first world war the proposal fell into abeyance. Little further action was taken until 1955, by which time national needs were pointing to the necessity for a considerable expansion of univ. resources during the decade beginning 1961. In 1956, as the result of an approach by the Brighton Borough Council to the other local authorities in Sussex, a joint cttee. was formed to take steps to found a univ. coll. An approach was made to the Univ. Grants Cttee., which, on July 1, 1958, gave its formal approval to the establishment of the coll. The joint cttee. was then reconstituted as a regional coll. council, and the coll. obtained interim legal status when, in May 1959, it was registered under the Companies Act as a Limited Liability Company, the members of the council being the dists. of the company. In Jan. 1961, a petition was presented to H.M. the Queen praying for a royal charter of incorporation as a univ. The charter was granted and came into force on Aug. 16, 1961. The univ. opened in Oct. 1961, when the first students were admitted.

Brighton (pop. 162,757) is a holiday centre on the south coast of England, 40 miles S. of London.

**CONSTITUTION.** The univ. consists of a court, council and senate, and the usual univ. officers. Council is the governing body, powers of court being limited to election of chancellor, pro-chancellors, treasurer and some members of council. In order to guarantee satisfactory ac-

ademic standards, there is also an academic advisory cttee., which will be an integral part of the univ.'s constitution for a limited period. This cttee. consists of persons of high academic standing and has the duty of advising the council and senate on academic matters, incl. the institution of degrees, the procedure for appointing members of staff and the conduct of exams.

**INCOME.** The 5 local educn. authorities in Sussex contribute between them an annual sum of about £40,000 towards the recurrent expenditure of the univ. The Univ. Grants Cttee. meets the remaining essential recurrent expenditure. The Univ. Grants Cttee. has also set aside £2 million to provide bldgs. (other than student residences) for the univ. during the period 1960-63. A public appeal was launched at the end of 1960 to obtain funds primarily for student residences; the target was £300,000 and was reached within a yr.

**DEANS.** There are no depts in the univ., which is organized into schs.—Engl. studies, European studies, phys. scs. and soc. studies. Each sch. is presided over by a dean: *Engl. studies*, Prof. D. Daiches; *European studies*, Prof. R. J. M. Wight (European hist.); *phys. scs.*, Prof. R. J. Blun-Stoyle (theoret. phys.); *soc. studies*, Prof. A. Briggs (hist.)

**SITE AND BUILDINGS.** Work on the first 2 bldgs.—Palmer House (the social and recreational centre), and the phys. bldg.—commenced in Dec. 1960. These bldgs. should be completed by Oct. 1962. 4 more bldgs.—chem., organ., arts and library—should be completed by Oct. 1964. Two student residences, each accommodating 200

students, are being erected and financed from the appeal fund; these should also be completed in 1964. All the bldgs will be erected on the univ. site of about 200 acres at Palmer, between Brighton and Lewes. Of this, 150 acres have been leased to the univ for 999 years by the Brighton Corp., and the remainder has been purchased.

**LIBRARY.** Over 30,000 vols

**ADMISSION.** See Appendix III.

**FIRST DEGREES.** The univ has 2 facs. in arts and sci. Arts studies leading to an hon. degree of BA (taking 3 yrs) are organized in 3 schools—English studies, European studies and soc studies—the intention being to ensure that the necessary specialization is accompanied by a desirable breadth of approach, through the co-operation of different subject specialists in a common degree course. BSc degree studies include pure maths, appl maths, phys and chem. A student taking a first hon. degree in sci. will be required to study 3 of these subjs., together with some hist

or philos. or sociol., for 3 yrs, a limited number of students will be able to specialize in one of the subjs. for an extra yr. and obtain a second hon. degree. A course leading to a degree in engin. sci (without specialization) will be offered later, and biol. studies will be introduced in 1965.

**HIGHER DEGREES.** Courses leading to degrees of master and doctor are available. The MA degree requires at least 1 yr. of study or res. after the hon. degree and the PhD or DPhil degree at least 2 yrs.' study or res. after the hon. degree.

**FEES.** Annual fees (incl. registration, tuition and exams., but not students' union sub.) BA, £60, BSc, £75. Higher and 1st. degrees without lab. facilities, £60; with lab. facilities, £75. Union sub. (payable by all full-time students), £6 p.a.

**ACADEMIC YEAR.** October to June. 3 terms of about 10 weeks each.

**PUBLICATIONS.** *Prospectus*, *Annual Report*.

## THE YEAR 1961

**PRINCIPAL BENEFICIARIES.** T. Lyddon Gardner, £164,500; H. Samuel, £100,000; I.C.I. Ltd., £25,000; Unilever Ltd., £25,000; S. M. Coffyn, £11,500; Calflys Ltd., £11,500.

(Total value of all benefactions received—£516,500).

**NEW CHAIRS.** Hist., European hist., Engl. and philos.

## Statistics

### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time		Part-Time
	Men	Women	
Men	17	2	
Women	35	2	
Total	52	3	

All students are in fac. of arts

Included in the figures above are:—

Postgraduate students, 3.

New admissions, 55

Students from other countries, nil.

# UNIVERSITY OF YORK

Postal Address (until Oct. 1, 1963): The King's Manor, York, England  
(after Oct. 1, 1963): Heslington, York, England

Telephone: York 59861

CHANCELLOR DESIGNATE—THE EARL OF HAREWOOD, MA Camb, Hon. LL.D. Leeds, Hon. D.M.S. Hull  
CHAIRMAN OF YORK UNIVERSITY PROMOTION COMMITTEE—THE ARCHBISHOP OF YORK, The Most Rev.  
and Rt Hon. F. D. COGGAN, MA Camb, BD Tor, Hon. DD Leeds & Tor  
VICE-CHANCELLOR—THE Rt Hon. LORD JAMES OF RHULME, MA DPhil Oxon., Hon. LL.D. MeG.  
TREASURER—L. OWEN, MBE  
REGISTRAR—J. P. WEST-TAYLOR, MA Camb  
LIBRARIAN—H. FAIRHURST, MA Camb.  
BURSER—D. G. H. CANNON

## TEACHING STAFF

<b>Architecture</b>		Harris, B., MA <i>Brix</i>	*Lectr.
Nuttgens, P. J., MA PhD DiplArch Edu.		Cunningham, J. S., BA Durh., BLitt	
Dir., Inst. of Advanced Archt. Studies,		Owen,	*Lectr.
Reader		Gibbs, A., BA PhD Camb.	*Lectr.
		Ward, W. A., BA Camb.	*Asst. Lectr.
		Howard, D., MA R'dg.	
		(from Oct. 1, 1964) Asst. Lectr.	
<b>Chemistry</b>		<b>History</b>	
Norman, R. O. C., BSc MA DPhil Oxon.		Aylmer, G. E., MA DPhil Oxon.	Prof
(from Oct. 1, 1964) Prof.		Williams, G. A., MA Wales, PhD Lond.	
Waddington, D., BSc PhD Lond.			*Sr. Lectr.
(from Jan. 1, 1965) Sr. Lectr.		Rycraft, P., BA Oxon.	*Lectr.
<b>Economics</b>		Thomas, W. E. S., BA Oxon.	*Lectr.
Peacock, A. T., DSC, MA St And.	Prof.	Robbins, K. G., BA Oxon.	*Asst. Lectr.
Dosser, D. G. M., BSc(Econ) Lond.	Reader	Purvis, J. S., OBE, MA DD Camb., FSA,	
Costa, A. W., MSc(Econ) Lond., PhD		FRHistS Dur., Northwick Inst. of Hist. Res.	
John H. (E. Hist.)	*Reader	Gurney, Mrs. Nouch K. M., MA Oxon	
Cooper, R. A., MA Oxon.		(Northwick Inst.) Lectr.	
(E. & Soc. Stats)	*Reader	Marshall, Ann, BA Oxon	
Sigworth, E. M., BA PhD Leeds		(Northwick Inst.) Asst. Lectr.	
(E. Hist.)	*Lectr.		
Hutton, J. P., MA Edin.	*Asst. Lectr.		
<b>Education</b>		<b>Mathematics</b>	
Rée, H. A., DSO, BA Camb.	Prof.	Kennedy, P. B., PhD DSc N.U.I.	*Prof.
<b>English</b>		<b>Politics</b>	
Brockbank, J. P., MA PhD Camb	Prof.	Moodie, G. C., MA St And. & Oxon.	*Prof.
Salter, Mrs. Elizabeth, MA Lond. &		Hemilton, Mrs. Bernice M., MA PhD	
Camb.		Lond.	*Sr. Lectr.
(from Oct. 1, 1964) Reader		Ions, E. S. A., MA BLitt Oxon	*Asst. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Hon. Dir. of the Appeal: A. D. Gladwin.  
Finance Officer: E. Dabill, FSAA. Admin.  
Asst.: Judith A. Mathews, LLB Lond. Lodg-  
ings Officer: Margaret Cowway. Sub-Librarian:  
J. F. Stirling, MA Lib. Asst. Librarian: Lois  
M. Gordon, MA Edin.

\*—from Oct. 1, 1963

## GENERAL INFORMATION

The earliest recorded petition for a Univ of York was made to James I in 1617 and was followed by a petition to parliament in 1652. In 1947 a deputation from the city of York was received by the Univ Grants Cttee, and a planning cttee was set up. This was taken over by York Civic Trust in 1949 and became their academic devel. cttee. In the same yr, summer schools in hist. res. and archit. study were held. The Boothwick Inst. of Hist. Res. and the Inst. of Advanced Archit. Studies were both establd. in 1953. The academic devel. cttee moved off from York Civic Trust in 1956 and became York Academic Trust. In 1959 the trust made an informal approach to the Univ Grants Cttee, and, in Nov., York Univ Promotion Cttee, representing a wide range of local interests, was formed. In Dec. a formal approach was made to the Univ Grants Cttee and on April 19, 1960, the estab. of the univ. was officially approved. The univ.'s academic planning bd., under chairmanship of Lord Robbins, was apptd. in Sept. 1960. A public appeal for funds, primarily for the bldg. of residential accomm., was initiated in May 1962, when the univ. published its development plan. The plan covers the univ.'s first 10 years, during which it is expected that the number of students will increase from 200 to 2000, of which at least half will be resident in colls.

York (pop. 105,000) is an historical cathedral city of great architectural beauty and a busy commercial and admin. centre.

**CONSTITUTION.** A petition for a royal charter will be presented early in 1963. The charter as drafted provides for govt. by court, council, professional bd. and gen. academic bd., with the usual officers. The univ. will award its own degrees from the outset. During the early yrs. there will be an academic advisory cttee, consisting of persons of high academic standing, to guarantee maintenance of satisfactory academic standards.

**COLLEGIATE SYSTEM.** The collegiate system will be in operation from 1965. Every student and every member of staff will be attached to one of the colls., which will each have about 300 undergrad. members and will provide residential accomm. for at least half of the undergrads. and a number of academic staff and grad. students. It is hoped that there will be built up round each coll. a body of tradition and loyalty which will carry with it many of the soc. advantages of the older collegiate system without entailing its academic duplication and rigidity. Teaching will be organized centrally by the univ., and in arts subjs. will take place within the colls., rather than in separate blocks of lecture rooms.

**INCOME.** Univ. Grants Cttee. have undertaken to provide recurrent grants from Oct. 1963 and have also allocated capital grants for 1962-65.

The city of York and the 3 Ridings and other local authorities of Yorkshire have promised annual contributions of approx. £35,000. A public appeal with a target of £2 million was launched in 1962.

**SITE AND BUILDINGS.** The univ. has an initial site of 184 acres at Heslington, within a mile of the city walls. Two historic bldgs., Heslington Hall on the site, and the King's Manor in York, are being converted to provide lecture, seminar and tutorial rooms, dining-halls, library and common rooms during the first 2 yrs. The admin. headquarters of the univ. will be at Heslington Hall. The 200 students to be admitted in 1963 will use Heslington Hall, and the King's Manor will also be available in 1964. Bldg. on the site will begin in 1963, and 2 of the colls., together with the 1st sci. block and 6 dept. bldgs., will be completed by Oct. 1963. The devel. plan provides for the remainder of the accomm., which will incl. a further 6 colls., 2 sci. blocks and 15 dept. bldgs., together with a central library, assembly hall, sports centre, theatre and concert hall, to be completed in phases over the following 5 yrs. The Boothwick Inst. of Hist. Res. and the Inst. of Advanced Archit. Studies, both of which form pts. of the univ., are housed in historic bldgs. in the centre of York. Micklegate House in York is also owned by the univ. and, like the King's Manor, will probably be used as a grad. institute when the 1st new bldgs. have been completed.

**ADMISSION.** See Appendix III.

**FIRST DEGREE.** First degree courses—BA and BSc (3 yrs.)—will comprise a major subj. and one or more cognate subsidiaries. In certain circumstances, however, a degree can be obtained in one subj. only. Range of subjs. will comprise arts, nat. scis. and soc. studies, and a rigid division into facs. will be avoided. Strong emphasis will be given to the tutorial system.

It is proposed that students of proved ability should be granted a 4th yr. of tlg. leading to an MA.

**FEES.** Sessl. fee, incl. (as appropriate) registration, tuition or supervision, exam., graduation, but not fees for games, clubs, etc.: BA, MA, PhD, each £60.

**STUDENTS.** 200 students will be admitted in Oct. 1963 in arts and soc. studies only, and a further 200 in 1964. From 1965, students in sci. will also be admitted.

**RESIDENCE.** Until completion of the 1st colls. in 1965, students will live in lodgings, and the lodgings officer will give assistance in finding suitable accomm.

**PUBLICATION.** *Prospectus.*

# UNIVERSITY OF WALES\*

Founded 1893

Postal Address: University Registry, Cathays Park, Cardiff, Wales

Cables and Telegrams: University Registry, Cardiff

Telephone: Cardiff 22656-7

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon. LLD *Edin. & Wales*, Hon. DSc *Dalh.*, FRSE

PRO-CHANCELLOR—The Rt. Hon. LORD MORRIS OF BORTH-Y-GEST, CBE, MC, LLD

VICE-CHANCELLOR—(until Aug 31, 1963) Principal T. PARRY, MA DLitt, FBA, University College of Wales, Aberystwyth

—(for biennium ending Aug 31, 1963) Principal J. H. PARRY, CMG, MBE, MA PhD Camb., FRHistS, University College of Swansea

WARDEN OF THE GUILD OF GRADUATES—A. B. OLDFIELD DAVIES, MA

DEAN OF DIVINITY—D. R. AP THOMAS, MA Oxon., BD Lond., BA

REGISTRAR—J. GARRETH THOMAS, MA

SECRETARY TO THE COUNCIL—ELWYN DAVIES, MSc PhD *Manc.*, MA

## ADMINISTRATIVE AND OTHER STAFF

UNIV. APPOINTMENTS BD. Sec.: H. B. PAIT, BA *Brist.*, Univ. Registry, Cathays Park, Cardiff (tel.: Cardiff 22656).  
UNIV. SCHOOL OF EDUCN. Sec.: A. DAVIES, BA, Univ. Registry, Cathays Park, Cardiff (tel.: Cardiff 22656). CHIEF MED.

OFFICER FOR STUDENT WELFARE: . . . ASSTS: R. A. N. HITCHENS, MD DPH; Edith McKnight BSc MB ChB DPH Glas., Inst. of Preventive Medicine, The Parade, Cardiff (tel.: Cardiff 29568)

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH: see p. 1312

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR: see p. 1317.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF: see p. 1322.

UNIVERSITY COLLEGE OF SWANSEA: see p. 1328.

## SCHOOL OF THE UNIVERSITY

WELSH NATIONAL SCHOOL OF MEDICINE see p. 1333.

## ASSOCIATED THEOLOGICAL COLLEGES AND SCHOOLS OF THEOLOGY

ABERYSTWYTH, UNITED THEOLOGICAL COLLEGE (tel.: Aberystwyth 281) (Calvinistic Methodist).  
CHRISTIAN DOCTRINE & ETHICS— . . . . . CHURCH HIST.—Rev. Prof. R. B. KNOX, MA BD *Belf.*, PhD Lond., O.T. LANG. & LIT.—Rev. Prof. G. H. JONES, MA Oxon., BA. N.T. GRK.—Rev. Prof. S. I. FOR Enoch, MA Camb., BA. THEISM & PHILOS. OF

RELIGION—Rev. Prof. R. N. WILLIAMS, MBE, MA Camb., BA.

BANGOR SCHOOL OF THEOLOGY (Univ. Coll. of N. Wales, Bangor, tel.: Bangor 501). (Inter-denominational). N.T. GRK.—Rev. S. L. BUSE, MA BD. HEBREW—Rev. Prof. B. J. ROBERTS, MA

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DD, Rev Prof G R M Lloyd, BLitt Oxon, BA BD, D. R. ap Thomas, MA Oxon, BD Lond, BA, Rev C F Whitley, MA BD PhD Div CHURCH HIST.—Rev Prof R T Jones, DPhil Oxon, BA BD, T Richards, MA DLitt Hon LLD, Prof Rees R T Jenkins, CBE, MA Camb, DLitt Hon LLD, FSA; Rev O W Jones, BA Lampeter, MA Camb CHRISTIAN DOCTRINE.—Rev. Principal G Bowyer, BA BD. PHILOS OF RELIGION.—T H McPherson, MA NZ, BPhil Oxon HIST OF RELIGIONS.—Rev I. Blythin, MA Oxon. HOLY SCRIPT. & HEREW.—Rev Principal T E Jones, MA BD, HOLY SCRIPT.—Rev I. Thomas, BA BD.

CARDIFF SCHOOL OF THEOLOGY (Univ. Coll. of S Wales and Mon, Cathays Park, Cardiff; tel. Cardiff 20781). (Inter-denominational). PHILOS. OF RELIGION, PHILOSOPHICAL THEISM & CHRISTIAN DOCTRINE & ETHICS.—Rev Principal J. I Jones, MA BD; Rev J. C Meeks, MA, N H. Palmer, MA Oxon HELLENISTIC GREEK.—Prof. B. R. Rees, MA Oxon, PhD N.Y. GREEK & HEBREW.—Rev D. G. Davies, BA BD; Rev H. L. Clarke, MA Oxon, STM U.T.S.(N.Y.). O.T. HEBREW & SEMITICS.—Prof A R Johnson, Hon. DD Edin.,

PhD, FBA, Rev E R. Rowlands, BA Camb, MA, Rev E T Rydes, MA Oxon, BD Lond., Rev D R Griffiths, MA Oxon, MTh Lond.; Rev E Roberts, BA Oxon. & Wales CHURCH HIST.—Rev Prof J. M. John, BA, Rev O G. Rees, BA Lampeter, MA Oxon HIST OF RELIGIONS.—Rev. C. G. Williams, MA BD.

CARMARTHEN, THE PRESBYTERIAN COLL. (The Priado, Carmarthen; tel.: Carmarthen 7157) (Unitarian, Congregationalist, Baptist) THEISM & PHILOS. OF RELIGION, CHRISTIAN DOCTRINE & ETHICS.—Rev Principal T. G. Davies, BA BD N.Y. GREEK & HEBREW.—Rev Prof. D. H. Davies, BA BD HEBREW & O.T. STUDIES.—Rev. Prof. D. J. Jenkins, MA BD

SWANSEA, THE CONGREGATIONAL MEMORIAL COLL. (Ffynnon, Swansea; tel.: Swansea 50260). (Congregationalist). CHURCH HIST.—Rev. Principal W. T. P. Davies, BLitt Oxon, PhD Yale, BA. Other Profs. HEBREW & O.T. EXEGESIS.—Rev Prof. D. L. T. Evans, BA BD; N.Y. GREEK & EXEGESIS.—Rev Prof D P. Roberts, MA Oxon, BA BD; CHRISTIAN DOCTRINE & ETHICS, THEISM & PHILOS. OF RELIGION.—Rev. Prof D J Davies, BA.

## GENERAL INFORMATION

The univ. was founded by charter in 1893. This organized 3 univ. colls already existing in Wales into a unified system for the purpose of degree exams. As the result of an enquiry held by a royal commission in 1916-18, a supplemental charter was granted to the univ. in 1920, which introduced many changes, the most important being the estab. of a 4th constituent coll at Swansea. A further supplemental charter was granted in 1932 providing *inter alia* for the institution of the Welsh Natnl Sch. of Medicine as a sch. of the univ. At the same time a change came about in the organization of theol. teaching. Theol. had up to this point been taught only in associated theol. colls. The amendment permitted the estab. of schs of theol., which would combine the teaching resources of univ. colls. and of theol. instrns. in univ. centres. Two schools have come into being, at Bangor and at Cardiff, but theol. colls. operating on their own still survive and continue to receive recognition (at Aberystwyth, Carmarthen, Swansea, *see above*).

Cardiff (pop 255,000) is the capital city of Wales.

CONSTITUTION The supreme governing and legislative body of the univ. is the univ. court, an assembly consisting of reprs. apptd by local authorities, by the constituent and other colls and by various instrns. connected with educn. and scholarship. The univ. council is the executive body of the univ., and the academic bd. advises the council and court on all academic matters.

GRANT INCOME (1960-61)<sup>1</sup> Treasury. £3,467,112.

FACULTIES. Facs of *arts* and *sci* exist in each of the constituent colls and operate within the colls. Similarly the new facs. of *econ* and *soc. studies* (at Cardiff) and *appl. sci.* (technol.) (at Swansea) each operate in one coll. The following facs do not exist separately in the colls but only as univ. bodies, functioning on a univ. level—*archit.*, *educn.*, *lang.*, *music*, *naval sci.* (consisting mainly of profs of agric. and allied subjts), *technol.*, *theol.* (consisting mainly of recognized teachers of theol.), *med.* (the senate of the Welsh Natnl Sch. of Med.). The academic bd. is constituted mainly of single reprs. coming from all the facs.

LIBRARIES. *See* entries for constituent colls and Welsh Natnl. Sch. of Med. *below*.

THE UNIV. SCHOOL OF EDUCATION (Univ. Registry, Cardiff; tel.: Cardiff 22656), which is an *area* trig. organization, came into being in 1949 and superseded the univ. bd. for trig. colls. It is charged with the duty of surveying the general educn. needs of Wales and Monmouthshire in regard to the educn. and professional trig. of teachers, and of co-ordinating developments and directing long-term policy, so as to formulate a comprehensive system for the trig. of teachers in the area. The organization comprises the univ. educn. bd., the univ. fac. of educn. and the 4 collegiate facs. of educn. at Aberystwyth, Bangor, Cardiff and Swansea. The school awards the teacher's cert. and the art teacher's dipl.

BOARD OF CELTIC STUDIES (Univ. Registry, Cardiff; tel.: Cardiff 22656) organizes and publishes results of res. into the hist., lang., lit., laws,

customs, archaeol., art and mams. of the Celtic peoples. *Publicns.* 1. *Bulletin* half-yearly, 1. *Llen Cymru* (Journal of literary res.) half-yearly.

**ADMISSION.** See Appendix III.

**First Degrees.** 3 yrs. pass, hon.—BA, BSc, BScEcon, BMus, LLB, BPharm, 5 yrs.—BArch; 5 yrs. 2 terms (of which last 3 yrs. may be spent in an approved sch. of med.)—MB BCh.

The univ. prescribes conditions under which it awards initial degrees to students of the colls. and of the sch. of med. Courses leading to the BA and BSc are provided at the 4 constituent colls.

The BA hon. may be taken in the following ap. schs. at all 4 constituent colls., except where otherwise indicated: archaeol. (at Cardiff only), bibl. studies (Bangor, Cardiff), econ., educn. (Aberystwyth, Bangor, Cardiff), English, French, geog. (Aberystwyth, Swansea), German, Greek, Hebrew (Bangor, Cardiff), Hispanic studies (Cardiff only), hist., Latin, maths. (Cardiff, Swansea), music (Aberystwyth, Bangor, Cardiff), philos., psychol. (Bangor, Cardiff), Welsh. There are also 21 hon. schs. in certain of these subs.

The BSc hon. may be taken in the following depts. at all 4 constituent colls., except where otherwise indicated: agric. (only at Aberystwyth and Bangor), agric. bot. (Aberystwyth, Bangor), agric. chem. (Aberystwyth, Bangor), agric. econ. (Aberystwyth only), anat. (Cardiff only), bot., chem., econ., educn. (Aberystwyth, Cardiff), engin. (electronic) (Bangor only), engin. (chem.) (Swansea only), engin. (civil, electr., mech.) (Cardiff, Swansea), for (Bangor only), fuel technol. (Cardiff only), geog. (Aberystwyth, Swansea), geol. (Aberystwyth, Cardiff, Swansea), maths., metall. (Cardiff, Swansea), microbiol. (Cardiff only), mining (Cardiff only), phys., physiol. (Cardiff only), zool.

Courses leading to the BMus are provided at Aberystwyth, Bangor and Cardiff; to the LLB at Aberystwyth, to the BScEcon at Cardiff, for the MB BCh post-grad. studies are pursued at Cardiff and the latter at the Welsh Natl. Sch. of Med., for the BPharm at Cardiff in conjunction with the Welsh Natl. Sch. of Med. and the Welsh Coll. of Advanced Technol. The Welsh Coll. of Advanced Technol. is also associated for the purpose of providing courses of study for the BArch.

**HONORARY DEGREES.** MA, DLitt, MSc, DSc, MMus, DMus, LL.M., LL.D., MD, MCh, MPharm, BD, DD, PhD (in arts, sci., law, med.). For the BD (3 yrs.' course), study is pursued in one of the associated coll. colls. or at the sch. of theol. of the Univ. Coll. of N. Wales, Bangor, and the Univ. Coll. of S. Wales and Monmouthshire, Cardiff. The MA, MSc and LL.M. may be awarded to grads. of other univs. approved for this purpose who pursue a scheme of res. in one of the constituent colls.; hon. grads. are required to pursue res. for 1 yr., others for a yrs. Only grads. of approved univs. who already have a master's degree (or BD) or have undertaken one yr.'s approved res. or have one yr.'s approved

postgrad. technical experience may be candidates for the PhD, which is awarded after not less than a yrs.' subsequent full-time res. at one of the constituent colls. or the Welsh Natl. Sch. of Med. (for full-time staff members of the colls. or the sch. sp. conditions apply).

**HONORARY DEGREES.** MA, MSc, MMus, DLitt, DSc, DMus, DD, LL.D.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Educn., 1 yr. postgrad.; DPH, 18 mos. pt-time; tuberculosis & chest diseases (DTCD), 2 yrs. subsequent to attainment of registrable qualif. (incl. 12 mos.' resident appt. in tuberculosis hosp. and attendance at approved courses of instruction); agric. sci. or for, at least 1 yr. for grade and others with equivalent qualifs.; theol., 3 yrs.; pharm. & archives admin., 1 yr. postgrad.; microscopical, 1 yr. postgrad.; stats., 1 yr. postgrad.

**FEES.** Annual composition fees (comprising matric., registration, tuition, exam., graduation and library fees, but excluding students' union fees, lab. fees and deposits) Initial degrees: BA, BMus, LLB, £60, BSc, BPharm, BArch, MB BCh, £75. Dipls. pharm., agric. sci., pub. health, £60, educn. £70. Res. degrees: without lab. facilities, MA, MSc, MMus, LL.M., PhD, £60, with lab. facilities, MSc, MPharm, PhD, £75. Students' union fee (compulsory) varies according to coll.

**ACADEMIC YEAR.** Oct.–June: 3 terms of 10 wks. each.

**UNIV. EXTENSION BOARD** (Univ. Registry, Cardiff, tel. Cardiff 22556) co-ordinates and reviews the extra-mural work of the constituent colls. For details, see coll. entries.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910. Details of other postgrad. awards are given in the univ. *Calendar*.

**THE UNIV. APPOINTMENTS BOARD** (Univ. Registry, Cardiff, tel. Cardiff 22556) is concerned with appts. of all kinds.

**THE GUILD OF GRADUATES** consists of the grads. and hon. grads. of the univ. Periodical meetings are held. Its officers are the warden, the clerk and the treasurer. Address for communications: Univ. Registry, Cathays Park, Cardiff.

**PUBLICATIONS.** *Calendar* (Oct.), 10s. post free. *Courses in div. and in mus., and music and degree regns.*, free. *Bulletin of Board of Celtic Studies*, 7s. 6d. per part (5s. to subscribers). *Publicns. of the Council of Music.* Accounts of early hist. of univ. are given in *The Univ. of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co., 1915), and *The Univ. of Wales A Historical Sketch*, by D. Emrys Evans (Univ. of Wales Press, 1953).

**UNIVERSITY PRESS.** Establd. by charter, 1922. Main field of interest: books in Welsh and works of res. relating to Wales. Offices: Univ. Registry, Cathays Park, Cardiff; tel. Cardiff 22556.



## THE YEAR 1961

**HONORARY DOCTORS.** *DLitt*—Sir Maurice Bowra, pres., *British Academy*; Rev. A. B. Jones, Welsh poet & dramatist; C. Richards, painter; Dame Flora Robson, actress. *DSc*—Dr W. Evans, teacher & physician; Sir William Hodge, master of Pembroke Coll., Camb.; Sir Alexander Todd, prof. of org. chem., Camb. *LLD*—H. Morrison Davies, thoracic surgeon; Dr. H. Lewis, prof. emer. of Welsh at Swansea; W. H. Smith, founder of Welsh Natl. Opera Co.; Sir Graham Sutton, dir., Meteorological Office; Vis. Tenby, pres., Univ. Coll., Swansea. *DD*—Rev. D. Wyré Lewis, Welsh preacher & writer.

*Included in the figures above are:—*

Postgraduate students, 528  
New admissions, 2,340  
Students from other countries, 460. (Countries from which largest numbers came: Iraq, 64; Nigeria, 49; India, 35).

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	4818	118
Women . .	2265	52
Total . . .	7083	170

**DIPLOMAS AWARDED (1960-61).** *Archit.* BArch, 1; *Arts* BA, 563; MA, 26; *DLitt*, 1; *Law*: LLB, 29; LL.M., 1; *Med.*: MB BCh, 46; MD, 3; MCh, 1; *Music*: BMus, 13; MMus, 3; DMus, 1; *Sci.*: BSc, 680; MSc, 20; BPharm, 16; MPharm, 3; DSc, 5; *Theol.*: BD, 5; PhD (all facs): 37

**DIPLOMAS AWARDED (1960-61).** *Agric. sci.*, 3; DTCD, 29; *educn.*, 415; *publwg.*, 2; *theol.*, 19.

[Information compiled as at 1/8/62]

## UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

Founded 1872

*Postal Address*: Aberystwyth, Wales

*Cables and Telegrams*: University College of Wales, Aberystwyth

*Telephones*: Aberystwyth 2346-8

**PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL**—Sir DAVID HUGHES PARRY, QC, MA Camb, Hon. DCL *McG.*, Hon. LLD *Birm.*, *Br. Col.*, Camb., *Exc.*, *Hull*, *New Br.*, *W. Ont.* & *Wales*

**VICE-PRESIDENTS**—The Rt. Hon. THE EARL OF LISBURN; IVOR EVANS, MA *Oxon.*

**TREASURER**—J. ALBAN DAVIES

**PRINCIPAL**—T. PARRY, MA *DLitt*, FBA

**REGISTRAR**—T. MARGRETH DAVIES, OBE, MA

**LIBRARIAN**—A. AP GWYN, MA

# TEACHING STAFF

(† = Part-Time)

**Agriculture**, see below

**Anthropology**, see Geog.

**Art and Crafts**, see Educn.

**Botany**

Wareing, P. F., PhD DSc Lond., FLS Prof.  
Carter, P. W., MSc Sr. Lectr.  
Wilson, Irene M., MSc PhD Lond. Sr. Lectr.  
Cham, B. H., BSc Lond., MSc Lectr.  
Bradbeer, J. W., BSc PhD Durh. Lectr.  
Phillips, I. D. J., BSc PhD Idms. Lectr.  
Savidge, J. P., BSc PhD Liv. Lectr.  
Newman, E. J., MA PhD Camb. Asst. Lectr.  
Rhodes, Muriel E., BSc Lond., PhD R'dg. Lectr.

1 Demr., 2 Res. Fellows

**Chemistry**

Trotman-Dickenson, A. F., MA BSc Oxon., PhD Manc., DSc Edin. Prof.  
Davies, M. M., PhD ScD Camb., MSc Reader  
Monk, C., DSc PhD Lond. Sr. Lectr.  
Thomas, W. J. O., DSc PhD Sr. Lectr.  
Bowen, J. B., BSc Lectr.  
Graham, S. H., BSc PhD Glas. Lectr.  
Moenson, G. A., MA DPhil Oxon. (Biochem.) Lectr.  
Williams, A. J. S., BSc Lectr.  
Kerr, J. A., BSc PhD Edin. Lectr.  
Price, A. H., BSc PhD Lectr.  
Young, J. C., BA PhD Camb. Lectr.

**Classics**, see Greek and Latin

**Economics**, see also Pol., Internat.

Beacham, A., OBE, MA Liv., PhD Belf., BA Prof.  
Morris, J. H., MSc(Econ) Lond. Sr. Lectr.  
Guénaux, P. H., MA Shiff. Lectr.  
Pankhurst, K. V., BSc Lond. Lectr.  
Edwards, J. R., BA Camb. Lectr.  
Wells, S. J., BSc(Bann) PhD Lond. Lectr.  
Williams, L. J., MA (Welsh Econ. Hist.) Res. Lectr.  
Davies, B., BA Camb. Asst. Lectr.  
1 Tutor

**Education** (incl. Art and Crafts)

Williams, J. L., BSc(Econ) PhD Lond., BA Prof.  
Morrison, J. R., MA BSc Glas., BEd Edin. Sr. Lectr.  
Lewis, W. J., MSc Lond. Lectr.  
Trott, A. L., MEd Durh., MA Lectr.  
Clement, Mary, MA PhD Lectr.  
Conway, H. T., BSc Brist. Lectr.  
Dodson, C. J., MA Lectr.  
Hall, E. G., BSc Nott. Lectr.

2 U

Jones, E., MA MEd Durh. Lectr.  
Jones, Rev B. E., BA BD (Bibl. Studies) Lectr.  
Jones, R. G., MA Lectr.  
Watkins, Mrs. M., Aural, BA Asst. Lectr.  
Tinker, D. T., Dipl.FineArt Lond. Lectr., Curator of Museum  
Nisbet, S. (Art) Instr.  
Jones, R. M., MA Res. Lectr. in Fac. of Educn.  
Thomas, Lili M., BSc Liaison Officer in Fac. of Educn.

**English Language and Literature**

Jones, G., MA Rendel Prof.  
Eameshaw, J., MA Manc. Sr. Lectr.  
Nesworthy, J. M., MA R'dg., FRSL Sr. Lectr.  
Shay, D., MA Oxon., PhD Sr. Lectr.  
Mills, M., DPhil Oxon., MA Lectr.  
Stephens, R. C., MA Oxon., PhD Belf. Lectr.  
Daniels, J. H., MA Syr., BA (American Lit.) Lectr.  
Gallon, D. N., BA Camb. Asst. Lectr.

**French and Romance Studies**

Briggs, E. R., MA PhD Camb. Prof.  
Williams, J. Killa, TD, MA Sr. Lectr.  
Hoggin, Mrs. Yvonne G. R., L&L Paris, MA PhD Lectr.  
Fletcher, D. J., MA Lectr.  
Hoggin, D. G., MA St. And., L&L DUStr., Lectr.  
John, S. G., MA Lectr.  
Macpherson, I. R., MA Aberd., PhD Manc. (Spanish) Lectr.  
Moyle, J. J., MA Camb. (Italian) Asst. Lectr.  
1 Lectrice, 1 Lecteur

**Geography and Anthropology**

Bowen, E. G., MA, FSA Gregory Prof.  
Fogg, W., MA Manc. Sr. Lectr.  
Howe, G. M., MSc PhD, FRMetS Sr. Lectr.  
Watson, E., MA Belf. Lectr.  
Carter, H., MA Lectr.  
Yates, R. A., MSc Brist. Lectr.  
Taylor, J. A., MA Liv., FRMetS Lectr.  
Mounfield, P. R., BA Nott. Lectr.  
McCann, S. B., PhD Camb., BSc Asst. Lectr.  
Wood, B. T., BA Asst. Lectr.  
Douglas, J. N. H., BSc Belf. Asst. Lectr.

**Geology**

Wood, A., DSc PhD Liv. Prof.  
Kirk, Nancy H., BA PhD Camb. Lectr.  
Phillips, W. J., BSc PhD Lectr.  
Haynes, J. R., BSc PhD Lectr.  
Convery, H. J. E., BSc Glas. Lectr.  
Jones, H. A., BA DPhil Oxon. (Sedimentary Petrol) Lectr.  
Bates, D. E. B., BSc Belf. Asst. Lectr.  
2 Tutorial Assis.

**German and Germanic Philology**

Magill, C. P., MA <i>Comb.</i> , PhD <i>Lond.</i>	Prof
Robinson, A. R., BA <i>Lond.</i> , PhD <i>Edin.</i>	Lectr.
Harris, Sylvia C., MA <i>Lond.</i>	Lectr.
Prochnak, P., MA	Asst. Lectr.
1 Lectur., 1 Tutor	

**Greek and Latin**

Davies, W. H., MA	(Classics) Prof
Duff, A. M., MA BLitt <i>Oxon.</i>	Sr. Lectr.
Hudson-Williams, A., MLitt <i>Comb.</i> , BA	Sr. Lectr.
Emanuel, H. D., MA PhD	
(Palaeog. & Mediev. Lat.)	Sr. Lectr.
Wild, L. N., BA <i>Oxon.</i> , MA <i>Sheff.</i>	Lectr.
Thomas, J. D., MA <i>Oxon.</i>	Lectr.
Kilgour, Edna M., MA <i>Glas.</i> , BA <i>Oxon.</i>	Asst. Lectr.
Hart, Gillian R., MA <i>Oxon.</i>	Asst. Lectr.

**History**

Treharne, R. F., MA PhD <i>Manc.</i> , FRHistS	Prof.
Johnston, S. H. F., MA BLitt <i>Oxon.</i>	Sr. Lectr.
FRHistS	
Sanders, I. J., DPhil <i>Oxon.</i> , MA, FRHistS	Sr. Lectr.
Fryde, E. B., MA DPhil <i>Oxon.</i> , FRHistS	Sr. Lectr.
Conway, A. A., MA <i>Lond.</i> , FRHistS	
(American H.)	Sr. Lectr.
Walker, R. F., DPhil <i>Oxon.</i> , MA	(Diplomatic) Lectr.
Wilson, H. S., BA <i>Durk.</i> , BLitt <i>Oxon.</i>	(Colonial H.)
Bell, K., BA <i>Lond.</i>	(Mod. H.) Asst. Lectr.

**History, Colonial**, see Hist.; and Pol., Internat.

**History, Welsh**

Williams, D., AM Col., MA DLitt	Sir John Williams Prof
Pierce, T. J., MA <i>Liv.</i>	(Mediev.) Res. Prof.
Williams, G. A., PhD <i>Lond.</i> , MA	Lectr.
Smith, J. B., MA	Asst. Lectr.

**Latin**, see Greek and Latin

**Law, English**

Davies, D. J. Ll., MA <i>Comb.</i> , LLB	Prof.
Hughes, G. B. J., MA <i>Comb.</i>	
LLM <i>N.Y. State</i> , LLB	Sr. Lectr.
Calvert, H. G., LL.M. <i>Lond.</i>	Lectr.
Rudden, B. A., MA <i>Comb.</i>	Lectr.
Moseley, T. H., BA LLB <i>Comb.</i>	Lectr.
North, P. M., BA BCL <i>Oxon.</i>	Lectr.

**Logic and Philosophy**

Aaron, R. I., DPhil <i>Oxon.</i> , MA, FBA	Prof.
Jones, O. R., BLitt <i>Oxon.</i> , BD PhD	Lectr.
Thomas, D. O., PhD <i>Lond.</i> , BA	Lectr.
Roberts, T. A., MA DPhil <i>Oxon.</i> , BA	Lectr.
Walters, P. W. R., BA <i>Rand.</i> , BPhil <i>Oxon.</i>	Asst. Lectr.

**Mathematics, Applied**

Davies, T. V., DSc <i>Lond.</i> , MSc	Prof
Easthope, C. E., PhD <i>Comb.</i> , MSc	Sr. Lectr.
Beard, D. W., MSc <i>Lond.</i>	Lectr.
Walters, K., MSc PhD	Lectr.
James, Mrs Eleanor M., BSc	Lectr.
Davies, M. J., BSc <i>Lond.</i>	Asst. Lectr.
1 Tutorial Asst.	

**Mathematics, Pure**

Pennington, W. B., MA PhD <i>Comb.</i>	Prof.
Meyler, Dorothy S., MSc	Sr. Lectr.
Morris, A. O., BSc PhD	Lectr.
James, Mrs Eleanor M., BSc	Lectr.
Clegg, J., MA <i>Comb.</i>	Lectr.
Gardiner, C. T., BSc <i>Birm. &amp; Lond.</i>	Lectr.
Penry, M. D., MSc	Asst. Lectr.
Wilson, J. F., MSc <i>Liv.</i>	Asst. Lectr.
1 Tutorial Asst.	

**Music**

Perrott, H. I., MA DMus <i>Oxon.</i> , FTCL	Gwynnog Prof.
Clements, C., BMus, FRCO	Sr. Lectr.
<b>Executants and Teachers</b>	
Bor, E.	(Violin)
Llewellyn, R.	(Singing)
John, G. L.	(Cello)
James, L. W.	(and Violin)
Kingswood, P. J.	(Violin)
Noble, T., OBE	Wind Instruments, Librarian

**Philosophy**, see Logic

**Physics**

Reynolds, W. J. G., CBE, PhD DSc, FIP	Prof
Jones, I. C., MSc, FIP	Sr. Lectr.
Richards, D. A., ARCS, DIC, MSc <i>Lond.</i>	Sr. Lectr.
Jones, W. M., DPhil <i>Oxon.</i> , BSc, FIP	Sr. Lectr.
Job, E. M., BSc	Lectr.
Trevena, D. H., PhD <i>Comb. &amp; Wales</i> , BSc	Lectr.
Edwards, D. H., PhD <i>Comb. &amp; Wales</i> , BSc	Lectr.
Brown, G. M., MA <i>Comb.</i> , MSc	Lectr.
Muade, A. D., BSc PhD <i>Nott.</i>	Lectr.
Wooling, E. R., BSc PhD <i>Lond.</i>	Lectr.

**Politics, International**

Reynolds, P. A., MA <i>Oxon.</i> , FRHistS	Wilson Prof
John, I. G., MSc <i>Lond.</i> , BA	(I. P. & Colonial Hist.) Lectr.
Morgan, R. P., MA PhD <i>Comb.</i>	Lectr.
Jones, R. E., MA	Asst. Lectr.
Garnett, J. C., MSc (Econ) <i>Lond.</i>	Asst. Lectr.

**Statistics**

Landley, D. V., MA <i>Comb.</i>	Prof.
Bartholomew, D. J., BSc PhD <i>Lond.</i>	Lectr.
Stons, M., BA PhD <i>Comb.</i>	Lectr.
King, P. J. H., MSc <i>Lond.</i>	(Computing) Lectr.

Mitchell, Ann F. S., MA Glas.  
i Res. Officer

Asst. Lectr.

Agricultural Zoology, see Zool., above

# Welsh Language and Literature

Jones, T., MA DLitt  
Gwenallt Jones, D. J., MA  
(Mod. Welsh Lit.) Reader  
Hughes, G. H., MA  
Williams, T. A., MA  
Bowen, D. J., MA  
Roberts, B. F., MA  
Millyard, E. G., MA  
Piette, J. R. F., L&S Reader  
(Biston & Cornish) Lectr.  
O'Callaghan, Mary O., MA Dub.  
(Irish) Asst. Lectr.

# Zoology

Jones, B. M., DSc Edu., BSc  
Watkin, E. B., DSc PhD  
Rees, Florence G., DSc PhD  
Jones, J. R. E., DSc PhD  
Reyn, Mrs. Pamela Y., BSc PhD Lectr.  
Poole, T. B., BSc PhD Wales  
Joynt, A., BSc PhD Lond

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

# AGRICULTURE AND RURAL ECONOMY

## Agricultural Biochemistry

Goodwin, T. W., DSc Lev., FRIC  
Aniston, W. M., BSc PhD, FRIC  
Stewart, V. I., BSc PhD Aberd.  
Davies, B. H., BSc Lit., PhD  
Maceo, E. I., BSc Lit., PhD  
Wusdell, Marie R., BSc Lev., PhD Bonn.

Prof.  
Sr. Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Lectr.

## Agricultural Botany

Thomas, P. T., BSc PhD  
Rees, H., PhD Birm., BSc  
Griffiths, E., MSc PhD  
Durrent, A., BSc Durb., PhD Birm.  
James, D. B., MSc  
Mann, Brenda, BA PhD Camb.  
Davies, J. N., BSc

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.

## Agricultural Economics

..... Prof., Adviser  
Provincial Agric. Econ. Service  
Phillips, J. R. E., MA  
Jawetz, M. B., MSc  
..... Lectr., Farm Management Liaison Officer  
Evans, D. H., MSc Nott., BSc  
Jones, W. D., MSc  
Hallett, G. M. Owen.  
James, P. G., MA Camb. & Wales  
Croity, R. D., BSc Lond.  
Johnston, Eira, BA Lond.  
Dummer, M. H., BA

Sr. Investigation Officer  
Sr. Investigation Officer

## Agriculture (Animal Husbandry)

Nichols, J. E., MSc Durb., PhD Edu.  
Sinclair, K. B., MVSc Lev., PhD  
Lees, J. L., BSc R'dg.  
Gordon, I., BSc (Agric) R'dg., MA  
Powell, T. L., BSc

Millford Prof.  
(Animal Physiol.) Lectr.  
Lectr.  
(Animal Physiol.) Lectr.  
Asst. Lectr.

## Agriculture (Crop Husbandry)

Ellison, W., BSc PhD Durb.  
Edwards, R. S., BSc PhD  
Hammerston, J. L., BSc R'dg., PhD  
Warboys, I. B., BSc Nott

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.

## Dairying

Lewis, J., MSc  
Davies, Mrs. Anne, MSc Lond.  
Richards, Ewelyn, BSc  
Pitce, E. Mildred, BSc R'dg.  
(Microbiol.) Asst. Lectr.

Sr. Lectr., Dir. of Dairy  
(Microbiol.) Lectr.  
Lectr.  
Lectr.

## WELSH PLANT-BREEDING STATION

Pies Gogeddan, Bow Street, Nr Aberystwyth,  
Ceredigionshire  
Thomas, P. T., BSc PhD  
Griffiths, D. J., MSc PhD

Prof., Dir.  
Dep. Dir.

## Research Officers &c Investigations

Griffiths, D. J., MSc PhD  
Jones, L. I., BSc  
Davies, W. E., BSc  
Cooper, J. P., BSc PhD R'dg., MSc  
Roberts H. M., BSc  
ap Griffiths, G., BSc PhD  
Hayes, J. D., MS Wira, BSc  
Breest, E. L., PhD Birm., BSc

## Research Officers

Jones, D. G., BSc  
Vase, P. B., BSc Glas.  
Lewis, J., BSc  
Davies, I., MSc  
Thomas, H., BSc PhD  
Troughton, A., MSc Durb., PhD  
Carr, A. J. H., BSc Lond., PhD  
Evans, Alice M., BSc PhD  
Johnston, T. D., BSc R'dg.  
Charles, A. H., BSc PhD  
Davies, Alison, MA Camb., MSc  
Borrill, M., BSc PhD Lond  
Miles, D. G., BSc  
Lewis, E. J., BSc  
Stoddart, J. L., BSc Durb., PhD  
Hughes, R., MSc  
Munro, J. M. M., BSc Glas., MAgSc N.Z.  
Jones, D. L. H., BSc PhD

Hayward, M. D., PhD BSc, BSc  
Catherall, P., BSc  
Scientific Liaison Officer  
Phillips, L.L., BSc

## UNIVERSITY EXTENSION

Rees, A. D., MA Du. of Extra-Mural Studies

Thomas, B., MA Staff Tutor  
Anthony-Jones, W. J., MA PhD Staff Tutor  
Jenkins, D., MSc Residential Tutor  
Lloyd, D. T., MA Lw., BA Residential Tutor  
Grindell, V. C. A., MA Oxo Residential Tutor  
Griffiths, W. B., BA Brist Residential Tutor  
66 Tutors

## ADMINISTRATIVE AND OTHER STAFF

Se Lectr. & Coll. Adviser in Phys. Educn., H. Williams, BA DipPhysEd Lond Lectra. in Phys. Educn., W. W. Hughes, BA, Rona M. Spens. Asst. to Coll. Adviser, R. Arthur Asst. Registrar: T. A. Owen, MA Oxo. Warden of Halls of Residence: L. Powys Roberts, MA Oxo (Alexandra Hall); Barwen Richards, BSc (Carpenter Hall); E. L. Ellis, DPhil Oxo, MA (Pantycelyn Hall); Marie R. Waddell, BSc Lw., PhD Birm. (Plyllynon Hall); Muriel E. Rhodes,

BSc Lond, PhD R'dg (Ceredigion Hall), K. Walters, MSc PhD (Padarn Hall) Careers Adviser & Welfare Officer: H. D. Thomas, MA Asst. Welfare & Lodgings Officer: Jean A. Rogers, BA Admin. Asst., M. Griffiths, BA LLB, J. E. Lloyd, BSc(Econ) Lond Accountant: K. G. Ford, Buildings Officer: D. S. Corlett, Radiation Protection Officer: G. A. Morrison, MA DPhil Oxo.

## GENERAL INFORMATION

Founded in 1873, the coll. was incorporated by royal charter in 1880, and is a constituent coll. of the Univ. of Wales. Its main bldg. and most halls of residence are on the sea front, facing Cardigan Bay. Pantycelyn Hall, the seat of rural sci. and dept. of bot., math., phys., stats. and zool. are situated on Penglais Hill, the future site of the coll.

INCOME (1960-61). £673,694 (govt. grants, 84.1 per cent; fees, 12.5 per cent; endowments, 1.4 per cent; other sources, 2 per cent)

FACULTIES AND DEANS. Arts, Prof. C. P. Magill (German); educn., Prof. J. L. Williams; law, Prof. D. J. L. Davies; music, Prof. H. I. Parrott; sci. & rural sci., Prof. J. E. Nichols (agric)

LIBRARIES. Coll., 153,405 vols. and 15,435 pamphlets. Access to Natl. Library of Wales (founded in 1907): since 1912 entitled, under the Copyright Act, to a copy of every book published in Gt Britain & Ireland; contains over 1,000,000 printed works (books, pamphlets, newspapers, journals), 25,000 MSS. vols., and about 3,500,000 deeds and other documents, together with very large collection of maps, prints and drawings. It has a general reference library which specializes also in printed books, MSS and graphic material relating to Wales and the other Celtic countries.

MUSEUMS AND LABORATORIES. Archaeol., bot., chem., ethnog., geog., geol., phys., zool., gallery of arts & crafts. Agric., exper. and plant-breeding stud., coll. farm and bot. gardens on Penglais

ADMISSION. Those wishing to read in the coll. for a degree (awarded by the Univ. of Wales) must satisfy the univ. admission requirements. See Appendix III

FIRST DEGREE (of Univ. of Wales). Courses in arts, sci., rural sci., law, music, for degrees of the univ. (see p. 1318). Courses in sci. meet requirements of 1st yr. of med. study, exams. of the Pharmaceutical Soc. and other bodies.

HIGHER DEGREES (of Univ. of Wales). Res. work for higher degrees of the univ. (see p. 1311) is carried out in all depts. Sp. facilities in agric., animal health, biochem., bilingual educn., internet. pol. and plant breeding

DIPLOMAS. Univ. dipl.: agric. sci., educn., micropaleontol., palaeog. & archives admin., stats., each 1 yr. postgrad. Coll. dipl.: dairying, 2 yrs; phys. of atmosphere, electronics phys., bilingual educn., 1 yr. postgrad.

CERTIFICATES. Coll. cert.: internal. law & relms., paleog., each 1 yr. Univ. of Wales Sch. of Educn.: teacher's cert.

FEES. See also Univ. of Wales, above.

UNIVERSITY EXTENSION (see also 'Teaching Staff', above). Extra-mural classes incl. extension and tutorial courses in several subs. in 7 counties. The dept. of extra-mural studies has its offices at 12 Marine Terrace, Aberystwyth (tel. 7616)

SCHOLARSHIPS. Entrance scholp. exam. held each spring for numerous scholps. (Details in prospectus obtainable from registrar)

POSTGRADUATE AWARDS open to grads. of other univs. see p. 910.

APPOINTMENTS BOARD. Students seeking advice on careers should consult the coll. careers adviser (see 'Admin. and Other Staff', above).

OLD STUDENTS' ASSOCIATION. Open to grad. and non-grad. old students of the coll.

**RESIDENCE.** (For wardens, see 'Admin and Other Staff', above). Women: Alexandra Hall (tel.: 415), Carpenter Hall (tel.: 516), Ceredigion Hall (tel.: 7159) and Plynlymon Hall (tel.: 7137), accommodating 200, 85, 67 and 67 students respectively. Men: Pantycelyn Hall (tel.: 642) and Padarn Hall (tel.: 7374), accommodating 260 and 60 students respectively. Fees: £155 per session. All enquiries to registrar. Men students not residing in hall live in approved lodgings (list obtainable from welfare officer).

**STUDENT WELFARE.** Every effort is made to foster the welfare of students by the encourage-

ment of athletic and social activities. Playing-fields with a running track, gymnasium and a swimming-bath at Penglas, together with a club room and a refectory, are set apart for the use of students. A dining club has been organized for men students. The coll. takes a full part in the student health service of the univ. (see under Welsh Natl. Sch. of Med., below), and med. officers visit the coll. each term. X-ray of the chest is compulsory for all students entering the coll.

**PUBLICATIONS.** *Prospectus* (May); *Reports* (Oct.), students' mag., *The Dragon*

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** *Buildings completed.* Pedlar men's halls of residence (30 accomm. 60).

**RETIREMENTS.** Prof. V. C. Merton (paleoethn.).

**REIGNATIONS.** E. T. Nevin (econ.), apptd to post in Econ. Res. Unit, Dub., W. J. R. Thomas (agric. econ.), apptd to post in M.A.F.F., B. J. Halsey (law), apptd to post in Col.; P. McCann (maths.), apptd to post at Dub. Inst. for Advanced Studies; B. Maloney (Italian), apptd. lectr. in Italian, Hull; R. C. Cobb (hist.), apptd. lectr. in hist., Leeds; T. A. Scott (agric. biochem.), apptd. lectr., Leeds; H. Jones (bot.), taken up post as H.M.I. schools; C. J. L. Price (Engl.), apptd to chair of Engl., U.C. Swansea, T. Hawkes (Engl.), apptd. lectr. in Engl. at U.C. Cardiff.

**DEATHS.** T. A. Stephenson (prof. of geol.)

**Distribution by Faculties.** *Arts*, 726, *educ.*, 123; *law*, 89, *mus.*, 3; *rural sci.*, 172, *sci.*, 643. Total: 1756

*Included in the figures above are —*

Postgraduate students, 274.

New admissions, 615.

Students from other countries, 83. (Countries from which largest numbers came: Uganda, 12; Nigeria, 12; Kenya, 8)

**DEGREES AWARDED** (by Univ. of Wales) (1960-1961). *Arts*: BA, 42; BA hon., 114; MA, 8. *Law*: LLB, 6; LLB hon., 23; LL.M., 1. *Music*: BMus, 1; BMus hon., 2. *Rural sci.*: BSc, 12; BSc hon., 14; DSc, 1; MSc, 3. *Sci*: BSc, 68; BSc hon., 52; MSc, 5; PhD, 10; DSc, 1. *Total number of first degrees awarded*, 336

**DIPLOMAS AWARDED** (1960-61). *By Univ. of Wales*: DipEd, 106; micropalaeontol., 1; agric. sci., 1. *By coll.*: dairyng, 11.

**CERTIFICATES AWARDED** (1960-61). *By Univ. of Wales Sch. of Educ.*: teacher's cert., 8. *By coll.*: palaeography, 2; bilingual studies, 10; internat. law & rels., 2

[Information compiled as at 31/8/62]

## UNIVERSITY COLLEGE OF NORTH WALES,

### BANGOR

Founded 1884

Postal Address: Bangor, Wales

Cables and Telegrams: University College, Bangor, Wales

Telegrams (Registrar): Bangor 2501

PRESIDENT—The Rt. Hon. LORD KENYON, LL.D.

CHAIRMAN OF THE COUNCIL—The Rt. Hon. LORD KENYON, LL.D.

U.K.—WALES

PRINCIPAL—R. CHARLES EVANS, MA BCh Oxon., Hon. DSc, FRCS

SECRETARY AND REGISTRAR—K. LAWRENCE, BSc

LABORER—E. G. JONES, MA

## TEACHING STAFF

{†=Part-Time}

## Agriculture, see below

## Botany

Richards, P. W., MA ScD Camb., FLS Prof.  
 Grog-Smith, P., MA Camb., FLS Reader  
 Woodhead, N., MSc Manc., FLS St. Lectr.  
 Jackson, G. A. D., BSc PhD Durh., FLS Lectr.  
 Leary, W. S., BSc PhD R'dg., FLS, FGS Lectr.  
 Griffiths, D. J., BSc PhD, FLS Lectr.  
 Tweed, R. D., FLS Hon. Keeper of Herbarium

## Chemistry

Pest, S., DSc Biru., FRS Prof.  
 Angus, W. R., MA DSc Aberd., PhD Lond.,  
 FRIC (Phys. C.) Sr. Lectr.  
 Holmes, F., BSc Lond. (Inorg. C.) Sr. Lectr.  
 McKail, J. E., BSc PhD Edu. Lectr.  
 Tutton, Lilian M., BSc PhD Biru., Lectr.  
 Tuvey, J. R., BSc PhD Lectr.  
 Lloyd, P. F., BSc PhD Biru. Lectr.  
 Thomas, J. M., BSc PhD Lectr.  
 Marshall, D. R., PhD St. And Lectr.  
 Smith, T. D., MSc Lectr.

## Classics

Wycheley, R. E., MA Camb. (Greek) Prof.  
 Clarke, M. L., MA Camb. (Latin) Prof.  
 Browne, R. A., PhD Camb., MA Sr. Lectr.  
 Pollard, J. R. T., TD, MA Lond.,  
 BLitt Oxon. Lectr.  
 Fitton-Brown, A. D., MA Camb. Lectr.  
 Jones, J. E., BA Lectr.

## Economics

Black, D., MA PhD Glas. (on leave) Prof.  
 Stannell, W. M., BCom Belf., PhD Sr. Lectr.  
 Jones, S., BA Lectr.  
 Smith, G. P., MA Camb. Lectr.  
 Kerridge, E., BA PhD Lond. Lectr.  
 Baker, A. J., MA Edu. Asst. Lectr.

## Education

Jenkins, D. W. T., MA Oxon. Prof.  
 Rogers, J., PhD Sr. Lectr.  
 Jones, W. R., MA Sr. Lectr.  
 Alexander, Marjorie B. Lectr.  
 Clegg, F. E., MA Camb. Lectr.  
 Tibbatts, E. L., BA Lond. (Speech E.) Lectr.  
 Eames, A., MA Lectr.  
 Leng, I. J., BA Lectr.  
 Davies, B. L., MA Lectr.  
 Smith, H. J., MA Oxon. Lectr.  
 Rees, L., MA (Phys. E.) Lectr.  
 Evans, H. I., MA Oxon. Lectr.

Glen, Margaret {P.T. Instr. for Women  
 Davies, Constance, PhD Lond. | Lectr.

## Electronic Engineering

Gavin, M. R., MBE, MA DSc Glas., FIP Prof.  
 Cain, R. W., BA PhD Camb. (Materials Technol.) Prof.  
 Ratcliffe, G., MSc Sr. Lectr.  
 Hyde, F. J., MSc Biru. Sr. Lectr.  
 Jones, D. C., BSc Lectr.  
 Forster, J., BScTech Manc., MSc Durh. Lectr.  
 Owens, A. R., MSc Manc. Lectr.  
 James, D. W. F., PhD Lond., BSc Lectr.

## English Language and Literature

Danby, J. F., MA Camb. Prof.  
 Owens, W. J. B., MA N.Z. & Oxon., PhD Sr. Lectr.  
 Bradbrook, F. W., MA Camb. Lectr.  
 Dyson, A. E., MA MLitt Camb. Lectr.  
 Brennan, Elizabeth M., MA Belf.,  
 PhD Lond. Lectr.  
 Mackenzie, D. K. M., MA Aberd. Lectr.  
 Bailey, R. N., MA Durh. Asst. Lectr.  
 Tydeman, W. M., BA Oxon. Asst. Lectr.  
 Eadie, J., MA Edu. Asst. Lectr.

## Forestry

Mobbs, E. C., OBE, MA Camb., BSc Lond. Prof.  
 Dobbs, C. G., PhD Lond. (Forest Bot.) Sr. Lectr.  
 Owen, T. H., BSc Lectr.  
 Kinloch, D., BSc Edu. Lectr.  
 Huggard, E. R., BA BAI Durh. Lectr.  
 Elliot, G. K., BSc MF Br. Col. Lectr.

## French and Romance Studies

Alexander, I. W., MA DLitt Edin. Prof.  
 Grimsley, R., MA DPhil Oxon.,  
 L&L Jills Reader  
 Watkins, I. H., MA Sr. Lectr.  
 Watts, D. A., MA Camb., DU Paris Lectr.  
 Ronco, Daisy D., DU Geneva Lectr.  
 Lorch, Jennifer, BA Leeds Asst. Lectr.  
 Busat, A. J. L., BA PhD R'dg. Asst. Lectr.

## German and Teutonic Philology

Spalding, K., MA PhD Biru. Prof.  
 Stuart, Mrs. Hannah S. M., BA  
 PhD Lond., MA Sr. Lectr.  
 Parry, I. F., MA Sr. Lectr.  
 Bednall, J. B., MA MLitt Camb. Lectr.  
 Whibley, K. H., BA Lond. (Russian) Lectr.  
 Hilton, I., BA PhD S'ux. Lectr.

**Hebrew and Biblical Studies**

Roberts, Rev. B. J., MA DD	Prof.	Jones, H. M., BLitt Owen, BA	Sr. Lectr.
ap Thomas, D. R., MA Oxon.,		Miles, T. R., MA Oxon.	(Psychol.) Lectr.
BD Lond., BA		McPherson, T. H., MA N.Z.,	
		BPhil Oxon.	(see also Theol.) Lectr.
Base, Rev. S. L., MA BD	Lectr.	Tucker, J. W., BA BSc PhD Lond.	Lectr.
Whitely, Rev. C. F., MA BD PhD Dub	Lectr.	Matthews, Gwyneth M., MA BPhil Oxon.	
Thomas, Rev. I., BA BD	Lectr.	BA	Lectr.
Threll, Margaret E., BA PhD Camb	Asst. Lectr.	Stewart, D. J., BA PhD Brat.	(Psychol.) Lectr.

**History, see also Theol.**

Mowat, C. L., MA Oxon., PhD Miln.	Prof.	Andrew, E. R., MA PhD Camb., FIP	Prof.
Thomas, J. A., PhD Lond., MA		Wright, P., PhD Camb. & Wales, FIP	Sr. Lectr.
(Mod. H.) Se.	Lectr.	Morris, D. P., BSc PhD	Sr. Lectr.
Cooke, M. E., MA Oxon., LLB Burn	Lectr.	Eades, R. G., BSc PhD St. And.	Lectr.
Lewis, R. A., BA PhD Brim.	Lectr.	Tredgold, R. H., BSc PhD Nott	Lectr.
Usher, G. A., MA	Lectr.	Llewellyn, J. P., BSc PhD Aberd.	Lectr.
Williams, W. G., MA	Lectr.	Clough, S., BSc	Lectr.
Levent, R. G., BA	Lectr.	Charles, S. W., BSc PhD	Lectr.
McNulty, Patricia, BA Lond	Lectr.	Jones, H. I., MSc	Lectr.
Miller, Helen, MA Lond	Asst. Lectr.	Bradbury, A., BSc PhD	Lectr.

**History, Welsh**

Roberts, G., MA	Prof.
Williams, J. G., MA	Lectr.

**Linguistics**

Pulman, F. R., MA Oxon	Prof.
Thomas, A. R., MA	Lectr.
Matthews, P. H., BA Camb.	Lectr.
Braunton, R. W. P., MA Oxon.	Asst. Lectr.
Barnes, P. F. R., MA Edu.	Asst. Lectr.

**Mathematics, Applied**

Davies, D. R., PhD DSc Lond	Prof.
Newing, R. A., PhD Lond.	Sr. Lectr.
Chambers, L. J., MSc	Lectr.
Hare, A., PhD Lond	Lectr.
Hughes, J. B., MSc PhD	Lectr.
Cunningham, J., MA MSc Edu.	Asst. Lectr.

**Mathematics, Pure**

Littlewood, D. E., MA Camb.	Prof.
Phillips, E. G., MA Camb., MSc Manc.	
	Sr. Lectr.
Barker, C. C. H., MSc Lond.	Lectr.
Moser, S., BSc	Lectr.
Englefield, M. J., PhD S'ton.	Lectr.
Morris, I., BSc	Lectr.
Finlayson, Irene R. P., MA Edu.	Asst. Lectr.

**Music**

Parry Williams, D. E., DMus BSc	Prof.
Smith, R. C., DMus, FTCL	Lectr.
Brandle, R. S., DMus	Lectr.
Mathias, W., BMus	Lectr.
Rands, H., MMus	Asst. Lectr.

4 Executants and Teachers

**Philosophy**

Mundle, C. W. K., MA St. And. & Oxon.	Prof.
Thomas, L. E., MA	Sr. Lectr.

**Physics, see also Electronic Engin.**

Andrew, E. R., MA PhD Camb., FIP	Prof.
Wright, P., PhD Camb. & Wales, FIP	Sr. Lectr.
Morris, D. P., BSc PhD	Sr. Lectr.
Eades, R. G., BSc PhD St. And.	Lectr.
Tredgold, R. H., BSc PhD Nott	Lectr.
Llewellyn, J. P., BSc PhD Aberd.	Lectr.
Clough, S., BSc	Lectr.
Charles, S. W., BSc PhD	Lectr.
Jones, H. I., MSc	Lectr.
Bradbury, A., BSc PhD	Lectr.

**Russian, see German****Theology, see also Hebrew**

Bowyer, Rev. Principal G., BA BD	
(Christian Doctrine) Sp. Lectr.	
Jenkins, Prof. R. T., CBE, LLB Camb., MA	
Camb. & Wales, DLitt Hon. LL.D., FSA	
(Church Hist.) Sp. Lectr.	
Jones, Rev. Prof. R. Tudur, DPhil Oxon.	
BA BD (Church Hist.) Sp. Lectr.	
Jones, Rev. Prof. T. E., MA BD	
(Holy Scriptures) Sp. Lectr.	
Lloyd, Rev. Prof. G. R. M., BLitt Oxon.	
BA BD (N.T.) Sp. Lectr.	
McPherson, T. H., MA N.Z., BPhil Oxon.	
(Philos. of Religion) Lectr.	
Thomas, Rev. I., BA BD	
(Holy Scriptures) Lectr.	

**Welsh**

Williams, J. E. C., MA BD	Prof.
Roberts, Enid P., MA	Lectr.
Rees, B., MA	Lectr.
Jones, J. G., MA	Lectr.
Gruffydd, R. G., DPhil Oxon, BA	Lectr.
Jones, B. L., MA	Lectr.

**Zoology**

Brambell, F. W. R., BA PhD Dub.,	
DSc Lond., FRSE	Lloyd Roberts Prof.
Remoldson, T. B., DSc Lond	Sr. Lectr.
Jackson, L. H., BSc Lond	Lectr.
Jones, W. C., MA PhD Camb	Lectr.
Alexander, R. McN., MA PhD Camb.	Lectr.
Ranham, N. W., PhD Hull	Lectr.
Hemmings, W. A., BA Oxon	Principal Scientific Officer
O'Donald, P., BA Camb.	Lectr.

**AGRICULTURE****Agricultural and Forest Zoology**

Hobart, J., BSc Lond.	Sr. Lectr.
Ford, J. B., PhD S'ton.	Lectr.



Harbett, I. V., BSc *Nott*, MS *Jona* Asst Lectr.  
 Cheesett, J. M., BSc PhD *Durk* Asst Lectr.

#### Agricultural Botany

Harper, J. L., MA DPhil *Oxon.* Prof.  
 Parry, D. W., MSc Sr. Lectr.  
 Menck, Margaret J., MA *Camd.* Lectr.  
 Breckshaw, A. D., MA *Camd.*, PhD Lectr.  
 Sagar, G. R., MA DPhil *Oxon.* Lectr.

#### Agriculture

Lucas, I. A. M., BSc *R'dg*, MS *McG.* Prof.  
 Davies, G. M., BSc PhD Sr. Lectr.  
 Williams, G. L., MS *Texas Agr.*, BSc Lectr.  
 Brown, W., MS *Pardue*, BSc Lectr.  
 Watson, J. H., BSc *Durk.*, PhD *Edin.* Lectr.  
 Alcock, M. B., BSc Asst. Lectr.

#### Biochemistry and Soil Science

Evans, W. C., PhD *Manc.*, MSc, FRIC Prof.  
 Davies, R. I., MSc *Liv.* Sr. Lectr.

Smithson, F., DSc *Leod*, FGS Sr. Lectr.  
 Evans, R. A., MSc Lectr.  
 Thomas, A. J., MA *Camd.*, PhD Lectr.  
 Axford, R. F. E., MA *VerMB Camd.* Lectr.  
 Grahams-Bryce, I. J., BA BSc DPhil *Oxon.* Lectr.

#### Marine Biology

Cnapp, D. J., MA PhD *Camd.* Dir.  
 Jones, C. B., PhD Dep. Dir.  
 Spencer, C. P., BSc PhD *Leeds* Lectr.  
 Jones, W. E., BSc PhD Lectr.  
 Daisett, D. A., BSc PhD *Leod* Lectr.  
 Harvey, J. G., BSc *Liv.* (*Oceanog*) Asst. Lectr.

#### UNIVERSITY EXTENSION

Dir. of Extra-Mural Studies: Williams, A. L., MA  
 Tutors: Jenkins, E., BA, Jones, F. P., BA,  
 FSA; Griffiths, D. J., BA, Williams, C. R.,  
 MA; Evans, M., PhD *Prin*, BA

### ADMINISTRATIVE AND OTHER STAFF

Wardens of Halls of Residence: A. Eames, MA (*Neusdd Reechel*); Margaret T. Martin, PhD *Leod* (*University Hall*). Dep. Registrar: G. B. Owen, BCom *Leod*, FCIS. Asst. Registrar: E. Hughes, BA. Accountant: L. R. Waid. Bldgs. Officer: H. J. Slade. Admin. Assts.:

J. A. R. Forster, MA *Oxon.*; D. G. Pitchford, BA. Library Assts.: Margaret D. Jones, BA, R. I. J. Tully, FLA. Maintenance Officer: R. O. Williams. Radiation Protection Officer: W. A. Hemmings, BA *Oxon*.

### GENERAL INFORMATION

The coll., constituted by royal charter in 1884, was made a constituent coll. of the univ. in 1893.

**CONSTITUTION.** The governing body of the coll. is the court of governors, whose executive office is the council. The senate, presided over by the principal, consists of the hds. of all depts., wardens of halls of residence and 6 reps. of non-professional staff. The senate and the council make annual reports to council and court respectively.

**INCOME (1960-61).** Total income, £642,602 (incl. univ. grant, 80 per cent.; endowments, 1 per cent.; fees, 10 per cent.).

**FACULTIES AND DEANS.** Arts, Rev. Prof. B. J. Roberts (*Hebrow*), educe; Prof. D. W. T. Jenkins; sci, Prof. W. C. Evans (*biochem.* & soil sci); theol., Rev. Principal G. Bowyer.

**COLLEGE PARCENT.** The main bldg. of the coll., housing the admin. and most arts depts., is on a hill overlooking Bangor. The sci., agric. and engin. depts. are below the main bldg. on the Ag rd. The coll. farm is at Aber, 6 mls. east of Bangor. The marine sci. labs. are in Menai Bridge on the other side of the Menai Straits. The 2 halls of residence are within easy walking distance of the coll. Work has begun on 2 of the 4 addnl. halls planned. Among other bldgs. pro-

jected are new chem. and animal nutrition bldgs., work on which is expected to start this yr.

**LIBRARIES.** General, 262,656 vols. (theol. a strong feature). Welsh, 89,514 (incl. the largest and best-equipped collection of Welsh periodicals in existence), MSS. 200,000.

**MUSEUMS** include: (a) museum of Welsh antiquities, (b) a zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind; (c) a collection of Welsh domestic and agric. bygonies together with Roman finds from Segontium and Capel Cuiog; (d) a timber library with a collection of over 1000 hand specimens of timbers from all parts of the world.

**FARM.** 675 acres, chiefly sheep pasturage and dairy.

**ADMISSION.** Those wishing to read in the coll. for a degree (awarded by the Univ. of Wales) must satisfy the univ. admission requirements. See Appendix III.

**NON-MEMBERS OF THE COLL.** may be admitted as occasional students to classes at the discretion of the deans of fees.

**FIRST DEGREE (of Univ. of Wales).** In addition

to the normal courses in arts, there are courses in theol. for BD degrees, in music for BMus degrees, and full courses for the BSc in agric. and rural econ., and for, as well as in pure sci. There are hon. degrees as well as pass degrees in arts and sci. (see p. 1311). Students who have reached a sufficiently high standard before entry can complete on hon. degree course in 3 yrs. Other students will require 4 yrs. to complete an hon. degree course, or they may complete a pass degree in 3 yrs. Other courses: 1st yr. of degree course in archit., med., pharm.; 1st yr. vet. sci.

**Honours Degrees** may be taken in agric., agric. bot., biblical studies, biochem. & soil sci., bot., chem., econ., educn., electronic engin., Engl., for, French, German, Greek, Hebrew, hist., Latin, music, maths, maths (pure), philos., phys., Welsh, zool., and jointly in the following sub-combinations: classes; elect. engin. & maths; Engl. & hist.; Engl. & philos.; French & German; hist. & philos.; philos. & psychol.; Welsh & biblical studies; Welsh & hist.; Welsh & Welsh hist.; zool. with appl. zool.; zool. with oceanography.

**HIGHER DEGREES** (of Univ. of Wales) Res. work for higher degrees of the univ. (see p. 1311) is carried out in all depts. Sp. facilities in Welsh lang. & lit., hist. of Wales, marine bot., agric., and animal health. 1-yr. courses leading by exam. and dissertation to MSc degree available in depts. of phys. and zool.

**DIPLOMAS.** Univ. dipls. theol., 3 yrs., agric. sci., educn., for., paleog. & archives admin., 1 yr. postgrad. Coll. dipls. mathl. phys., 1 yr. postgrad.; agric. bot. (crop protection), 1 yr. postgrad.

**CERTIFICATES** Univ. of Wales Sch. of Educn. teacher's cert. Univ. of Wales cert. of oral proficiency in French.

**RESEARCH** Postgraduate res. leading to award of higher degrees may be pursued in every dept. *Reports of Hdn. of Depts.* incl. reference to work published by staff.

**ALLIANCES** There is a standing arrangement with the Univ. of Tübingen whereby Bangor hon. German students spend 1 term at Tübingen, and Tübingen hon. Engl. students spend 1 term at Bangor. Lects. also exchange visits. There

is a Univ. of Wales scheme for exchange of lectrs. on a short-term basis among the constituent colls.

**STUDY LEAVES** may be applied for when a member of staff has been in the coll. for 7 yrs. An endowed trust fund meets the cost of additional expenditure incurred by members of staff during their periods of study leave.

**FEEs.** See under Univ. of Wales, above.

**ACADEMIC YEAR.** Oct. to June. 3 terms of approx. 12 weeks each.

**ADULT EDUCATION** (see also 'Teaching Staff', above). Local lectures in lit., econ., and agric., small lending libraries; tutorial and preparatory classes in 6 courses.

**SCHOLARSHIPS** 12 scholps. are open for award to students entering the coll. to read for a first degree.

**POSTGRADUATE AWARDS** open to grads of other univs. see p. 910.

**APPOINTMENTS BOARD** See under Univ. of Wales, above.

**RESERVE** (For wardens, see 'Admin. and Other Staff', above) *Meriad Rhodri* (tel.: Bangor 2708) provides accomm. for 160 men (fee, £165 p.a.) and University Hall (tel.: 2528), with its annexes, for 143 women (fee, £160 p.a.). The warden of women students is also warden of University Hall.

**PRINCIPAL STUDENT ATHLETIC FACILITIES** The coll. has extensive playing-fields for rugby, soccer, hockey, tennis and net-ball. The gymnasium has a ring for the use of the boxing club and provision is also made for fencing and badminton. In addition there are well-equipped rowing and sailing clubs. The mountaineering club has excellent facilities in Snowdonia within easy reach of the coll.

**STUDENT HEALTH SERVICE** See under Welsh Natnl. Sch. of Med., below.

**STUDENTS' UNIONS** In addition to the normal union facilities in the coll. itself, a large house has been converted into a union.

**PUBLICATIONS.** *College Magazine*, one issue per term, 1s.; *Prospectus, Handbook, Gazette* (one issue per term), *Postgraduate Prospectus, Prospectus of Entrance Scholarship Examinations*, free.

## THE YEAR 1961

**PRINCIPAL BENEFICATIONS.** Total value of all benefactions received: £32,500.

**MAJOR BUILDING DEVELOPMENTS.** *Blags* completed: extension to marine sci. labs. *Approaching completion:* extension to library; new refectory.

**NEW DEPARTMENTS AND CHAIRS** Chair of materials technol. (within dept. of electronic engin.).

**RETIREMENTS** *Malian Beaumont* (housemistress).

**RESIGNS.** Dr. A. B. Acton (zool.), apptd. to A. E. R. E., Harwell; Rev. H. P. Owen (Hebrew & biblical studies), apptd. lectr. in theol., King's Coll., Lond.; *Margerie M. Rugby* (Engl.), apptd. lectrv. *Burn*, Dr. J. D. Hurd (phys.), apptd. to post in industry; Dr. Rosemary Hughes (hist.), on maternity.

**DEATHS** Emer Prof E Taylor-Jones (prof of phys., 1899-1915); Emer Prof W E Williams (prof of electr engin., 1943-47); Emer Prof E J Roberts (prof of agric & dir of coll. farm, 1945-61); Dr T Richards (librarian, 1926-46)

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . . . .	912	33
Women . . . . .	485	11
<b>Total</b>	<b>1397</b>	<b>44</b>

**Distribution by Faculties.** *Agric*, 130, *arts*, 564; *educn*, 111; *electr. engin.*, 102; *for.*, 54,

*music*, 12, *pure sci*, 452; *theol.*, 15. Total, 1442

*Included in the figures above are:—*

Postgraduate students, 223

New admissions, 439

Students from other countries, 83. (Countries from which largest numbers came: Germany, 27, India, 8, Mauritius, 8)

**DEGREES AWARDED** (by Univ. of Wales) (1960-1961). *Agric*, 29; *arts*, 127, *electr. engin.*, 16; *for.*, 13; *music*, 1, *pure sci*, 96; *theol.*, 1. Total number of first degrees awarded, 283

**DIPLOMAS AWARDED** (1960-61) DipEd, 80; palmag., 2; theol., 1; agric sci, 3

**CERTIFICATES AWARDED** (1960-61). *Educn*, 8, French, 8.

[Information compiled as at 18/9/62]

## UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

Founded 1883; incorporated by Royal Charter, 1884

*Postal Address:* Cathays Park, Cardiff, Wales

*Telegrams:* Coleg, Cardiff

*Telephone:* Cardiff 20781

**PRESIDENT**—.....

**TREASURER**—D. W. VAUGHAN, CBE

**PRINCIPAL**—A. STUBBS, OBE, JP, MA Oxon & Camb., LittD Camb.

**REGISTRAR**—E. R. EVANS, MA Oxon.

**LIBRARIAN**—R. J. BATES, MA Oxon.

**CHIEF BUILDING OFFICER**—W. A. JEWELL.

## TEACHING STAFF

[† = Part-Time]

### Anatomy

Lewis, J. D., MA MD Camb.

Jacoby, F., MD Berl., PhD Bern.

(Histol.) Reader

Hughes, H., BA MB ChB Linc., MSc

Moffat, D. B., MD BS Lond., FRCS

Craigmyle, M. B. L., MD ChB Glas.

Irvine, G., MB ChB Edin

Prof.

Beck, F., MB ChB Bern.

Findlay, J. A., MB ChB Aberd.

† Dent, † Dent

Lectr.

Lectr.

### Archaeology

Atkinson, R. J. C., MA Oxon, FSA

Alcock, L., MA Oxon, FSA

Jarrett, M. G., BA PhD Darb.

Prof.

Se. Lectr.

Lectr.

**Architecture**, see p. 1326**Biblical Studies**, see Semitic Languages**Biochemistry**

Pryde, J., BSc <i>St. And.</i> , DSc	Prof
Dodgson, K. S., PhD DSc <i>Law</i>	
Reader, Dir of Res Lab.	
Rose, F. A., BSc PhD	Lectr.
Lloyd, A. G., BSc PhD	Lectr.
Powell, Gillian M., BSc PhD	Lectr.
Tudball, N., BSc PhD	Lectr.
3 Hon. Staff Members	

**Botany (including Microbiology)**

Asprey, G. F., PhD DSc <i>Burm.</i>	Prof.
Percival, Mary S., BSc <i>Edin</i> , PhD	Sr. Lectr.
Atney, S. E., MA <i>Oxon</i>	Sr. Lectr.
Benson-Evans, Kathryn, MSc, FLS	Lectr.
Hyde, H. A., MA <i>Camd</i> , FLS	
(Econ. B.) Hon. Lectr.	
Lyon, A. G., BSc <i>St. And.</i> , PhD <i>Camd.</i>	Lectr.
Harvey, R., BSc, FLS	Lectr.
Hill, E. C., MSc (Microbiol.)	Lectr.
Williams, Miss M. Ann, MSc (Microbiol.)	Lectr.
Calley, A. G., BSc PhD <i>Leeds</i>	
(Microbiol.) Lectr.	
Evans, A. D., BSc MB BCh	Hon. Lectr.
Etherington, J. R., BSc <i>Leid</i>	Asst. Lectr.

**Chemistry**

Evans, A. G., PhD DSc <i>Mon.</i> , FRIC	Prof.
Punder, A. R., BSc PhD <i>Sheff</i> , DPhil <i>Oxon</i>	(Org. C.) Sr. Lectr.
Thomas, J. H., BSc PhD <i>Leid</i>	Sr. Lectr.
Chard, S. J. H. O., MSc, FRIC	Lectr.
Thomas, N., MSc PhD	Lectr.
Phillips, G. O., BSc PhD	Lectr.
Whittle, E. M., BSc PhD <i>Mon.</i>	Lectr.
Whitling, R. P., BSc PhD <i>Leid</i>	Lectr.
Owen, E. D., BSc PhD	Lectr.
Warren, K. D., BSc <i>Leid</i> , PhD <i>Leid</i>	Lectr.
Blake, P. G., BSc <i>Leid</i> , DPhil <i>Oxon</i>	Lectr.
Whiting, D. A., BSc PhD <i>Leid</i>	Asst. Lectr.
Rees, N. H., BSc PhD <i>Leid</i>	Asst. Lectr.
3 Res. Assts.	

**Classics**

Rees, B. R., MA <i>Oxon</i> , PhD	(Greek) Prof.
Morris, L. A., MA DPhil <i>Oxon</i>	(Latin) Prof.
Tessell, R. G., MA <i>Camd.</i>	(Greek) Lectr.
White, Sheila, BA <i>Leid</i>	(Latin) Lectr.
Thomas, Elizabeth, MA <i>Leid</i> , BA	(Latin) Lectr.
Walton, P., BA PhD <i>Leid</i> , MA <i>Yale</i>	
(Greek) Lectr.	
Williams, J. B., MA <i>Camd.</i>	(Latin) Asst. Lectr.
Percival, J., BA <i>Oxon</i>	(Anc. Hist.) Asst. Lectr.

**Economics and Social Science**

Thomas, B., OBE, PhD <i>Leid</i> , MA	Prof.
Jones, L. M.	Sr. Lectr.
Parris, S. C., BSc (Econ) <i>Leid</i>	Sr. Lectr.

Maynard, G. W., BSc (Econ) <i>Leid</i> , PhD	(on leave) Sr. Lectr.
Crichton, Anne, MA <i>Leid</i>	(Soc. Sci.) Sr. Lectr.
Pole, J. D., MA <i>Camd.</i>	(Econ.) Lectr.
Mackeson, J. F., BA <i>Camd.</i>	(Law) Lectr.
Edwards, Mary E., BA	(Soc. Sci.) Lectr.
Chaudhuri, P. K., BA	(Econ.) Lectr.
Collard, D. A., BA <i>Camd.</i>	(Econ.) Lectr.
Knight, M. T., BA LLB <i>Dub.</i>	(Law) Lectr.
Ridgway, Mrs. Gillian, BCom	
MSocSc <i>Birm.</i>	Asst. Lectr.
Wakeford, J. R., BA <i>Nott.</i>	Asst. Lectr.
Mages, C. C., BCom <i>Leid</i> , FCA	(Accty.) † Lectr.

## 2 Res. Assts

**Education**

Evans, E., MA <i>Oxon</i> , BA	Prof.
Mulhearn, B. W., BA <i>Sheff.</i>	Lectr.
Simpson, E. B., MA BSc <i>Leid</i>	Lectr.
Griffith, Myron B.	(Alt) Lectr.
Evans, L. Wynne, MEd <i>Darb.</i> , MA PhD	Lectr.
Bull, Beryl M., MA	Lectr.
Williams, Ethel M.	Lectr.
Thomas, H., BEdus	Lectr.
Mathias, W. A., MA	Lectr.
Othen, C. W., MSc, FRIC	Lectr.
Pata, R., MEd <i>Mace</i> , MA	Lectr.
Davies, Rev. T. G., BA BSc	Lectr.
Davies, Nan E. J., BA	Lectr.
Ashton, B. D., BA	Lectr.
Powell, J. D., BA	Sp. Lectr.

**Education, Collegiate Faculty of**

Evans, R. H., MA <i>Oxon</i>	Lectr., Sec.
Evans, Kathleen M., MA BSc PhD <i>Leid</i>	Lectr., Res. Officer
Jones, J. G., MSc	Lectr., Admin. Officer
1 Res. Asst.	

**Engineering, Civil**

Gurney, H. C. H., OBE, MA <i>Camd.</i> , DSc <i>Leid</i> , FIP, FRACs	Prof.
Bannister, J. L., BScTech <i>Man.</i> , MSc	Sr. Lectr.
Ashwell, D. G., MA PhD <i>Camd.</i>	Sr. Lectr.
Porter, D. M., BSc	Lectr.
Thomas, W. P., MSc PhD	Lectr.
Trigg, C. F., MSc, MIMechE	Lectr.
1 Res. Asst.	

**Engineering, Electrical**

Williams, E., BEng <i>Leid</i> , MIEE	Prof.
Davies, W., BSc PhD	Sr. Lectr.
Powell, W. H., MSc PhD	Lectr.
Sheen, F. V., BSc	Lectr.
Thomas, J. G., BSc PhD <i>Brist.</i>	Lectr.
.....	
Lilley, P., BSc	Temp. Asst. Lectr.

**Engineering, Mechanical**

Hutton, S. P., DEng <i>Leid</i> , PhD <i>Leid</i> , MIMechE	Prof.
Butler, L. H., MSc (Eng) <i>Leid</i> , MSc PhD	Sr. Lectr.

Bray, R. O., BSc *Leeds*.  
 Brinkworth, B. J., MSc *Bristol*.  
 Slyper, H. A., BSc *Durham*.  
 Lewis, T. T., BSc  
 1 Res. Asst.

### English Language and Literature

Llewellyn, E. C., MA BLitt *Oxon*, BA Prof.  
 Thomas, R. G., MA PhD Sr. Lectr.  
 Kiangopoulos, G. D., MA Camb. Sr. Lectr.  
 Williams, Kathleen M., MA *Oxon*. Sr. Lectr.  
 Elliott, C. H., MA Lectr.  
 Quinn, H. M., BLitt *Oxon*, BA Lectr.  
 Brown, Eluned M., MA Lectr.  
 Evans, W. O., BLitt *Oxon*, BA Lectr.  
 James, G. I., MA Lectr.  
 Hawkes, T., MA Lectr.  
 Asst. Lectr.

### French and Romance Philology

Thomas, J. Heywood, DUParis, MA Prof.  
 Morse, B. J., MA (Italian) Sr. Lectr.  
 Butler, P. F., L&SL *Lawrence*, PhD Sr. Lectr.  
 Motin, Thelma, DUParis, BA Sr. Lectr.  
 Spencer, R. H., BA *Leeds* Lectr.  
 Sullivan, W. A., BA Lectr.  
 Jones, F. J., MA BLitt *Oxon*, DUParis (Italian) Lectr.  
 Alessio, A., Dottorato *Genoa* (Italian) Lectr.  
 Ryquens, R., L&SL *Bordeaux*, MA *Liv* (French with Italian) Lectr.  
 Jenkins, T. H., DUParis, MA (French with Italian) Lectr.  
 . . . . . (French) Asst. Lectr.  
 French: 1 Lecturer, 1 Lectrice; Italian: 1 Lectr.

### Fuel Technology, see Metall. and Fuel Technol.

### Geology

Anderson, J. G. C., MA DSc PhD *Glas*, FGS Prof.  
 Blundell, C. R. K., BSc PhD, FGS St. Lectr.  
 Baker, J. W., BSc *Bristol*, FGS Lectr.  
 Leeson, G. G., BSc, FGS Lectr.  
 Appleby, R. M., MSc PhD *Monm.*, FGS Lectr.  
 Bigwood, D. E. T., BA PhD *Cardiff*. Asst. Lectr.  
 1 Res. Dem.

### German

Williams, T. P., MA Prof.  
 Jones, Mrs. V. Isabel, MA *Edin* Lectr.  
 Gillespie, G. T., MA *Leeds* Lectr.  
 1 Lectr.

### Hispanic Studies

Reckert, S., BA PhD *Yale*, MLitt *Cardiff* Prof.  
 Aguirre, J. M., Licenciado *Salamanca*, PhD *Cardiff* Lectr.  
 Close, Mrs. Lucia J., BA *Cardiff* Asst. Lectr.  
 Marques, Dida, Licenciado *Leiden* (Portuguese) Temp. Asst. Lectr.  
 Spanish: 1 Lecturer, 1 Tutorial Asst.; Portuguese: 1 Lectr.

### History

Chrimes, S. B., MA *Leeds*, PhD LittD *Cardiff*. Prof., Actg. Hd. of Welsh H. Dept.  
 Marshall, Dorothy, MA PhD *Cardiff*. Sr. Lectr.  
 Roota, I. A., MA *Oxon*. Sr. Lectr.  
 Loyn, H. R., MA Sr. Lectr.  
 Powell, I. B., BA Lectr.  
 Edwards, E. W., MA Lectr.  
 Williams, L. H., MA Lectr.  
 Knowles, C. H., BA PhD Lectr.  
 Temple, Nona C., BA PhD *Leeds* Lectr.  
 Henriques, Ursula, MA BLitt *Oxon*, PhD *Monm.* Lectr.

### History of Wales

Pierce, G. O., MA Prof.  
 Rowlands, E. I., MA Lectr.  
 Lectr.

### Industrial Relations

Fogarty, M. P., MA *Oxon*. Prof.  
 Balfour, W. C., JP, BSc(Econ) *Leeds*, MA Lectr.  
 Thomason, G. F., BA *Sheff*, MA *Tor* Lectr.  
 Chadwick-Jones, J. K., MA *Oxon*, PhD (Indust. Psychol.) Lectr.  
 1 Res. Assoc.

### Italian, see French and Romance Philol.

### Law, see Econ

### Mathematics, Applied, and Mathematical Physics

Landsberg, P. T., DIC, MSc PhD *Leeds*, FIP Prof.  
 Morris, Ross M., PhD *Cardiff*, BSc Sr. Lectr.  
 Morgan, D. J., PhD *Durham*, BSc Lectr.  
 John, T. L., PhD *Leeds*, BSc Lectr.

### Mathematics, Pure (and Statistics)

Cooper, J. L. B., BSc *Cape*, MA Prof.  
 DPhil *Oxon* (Stats) St. Lectr.  
 . . . . . (Stats) St. Lectr.  
 Pope, A. H., MSc *Leeds* Lectr.  
 Hughes, N. J. S., MA PhD *Cardiff* Lectr.  
 Gould, G. G., MA *Cardiff*, BSc Lectr.  
 PhD *Leeds* Lectr.  
 Edmunds, D. E., BSc PhD Lectr.  
 Harris, D. J., BSc *Cape*, MA *Cardiff* Lectr.  
 Rigby, J. F., MA PhD *Cardiff* Lectr.  
 Gangachari, K. S., BSc *Ceylon*, BA PhD *Cardiff* Lectr.  
 Thorp, B. L. D., BSc PhD *Durham* Asst. Lectr.  
 Morris, G. C., BSc Asst. Lectr.  
 . . . . . Asst. Lectr.

### Metallurgy and Fuel Technology

Lloyd, H. K. M., PhD *Sheff*, BSc, FIM Prof.  
 Garwood, R. D., MSc, FIM (Metall.) Sr. Lectr.  
 Carpenter, D. L., BSc PhD (Fuel Technol.) Lectr.  
 Wilson, A. J. C., MSc *Durham*, PhD *Cardiff* & M.I.T., FIP (X-ray Metallurgy) Lectr.

Rawlings, R., BSc PhD, FIM (Metall.) Lectr.  
 Taylor, J. L., BSc (Metall.) Lectr.  
 Henderson, T. A., BSc Dark, PhD Camb. (Metall.) Lectr.  
 Richards, G. L., BSc (Metall.) Asst. Lectr.  
 2 Res. Demr.

## Microbiology, see Bot

## Mining

Sinclair, J., MEng PhD Staff.  
 Platt, J., BSc PhD  
 Probert, L., BSc  
 Powell, W. H., MSc PhD  
 Brown, K. M., BSc  
 Potter, R. D., BSc  
 Taylor, J., BSc  
 2 Res. Demrs

## Music

Morgan, J., DMus, FRCO  
 Bruce, I. M., MA MusBac Edus.  
 Collier, D. G., MMus  
 Bruce, R., DFC, MusBac Edus.  
 Hoddinott, A., DMus

Chamber Music Players (Lectr. Status)  
 Figgott, P. (Piano) Teacher  
 Wang, A. (Violin) Teacher  
 Mutter, G. N. (Viola) Teacher  
 Isaac, G. (Cello) Teacher  
 Popperwell, S., MA MusBac Camb. (Violon) Teacher

And Teachers of Singing, Piano, Organ and all Orchestral Instruments

## Philosophy

de Selincourt, O., MA Oxon.  
 Evans, J. L., MA DPhil Oxon.  
 Bruntow, J. A., MA Oxon.  
 Palmer, N. H., MA Oxon.  
 Powell, Betty, BA Mans., PhD Lond.  
 Durrant, M., BA Leeds, BPhil Oxon.  
 Prof. Sr. Lectr. Lectr. (on leave) Lectr. Temp. Lectr. Asst. Lectr.

## Physics

Wilson, A. J. C., MSc Dal., PhD Camb. & M.I.T., FIP  
 Hughes, J. W., BSc PhD, FIP  
 Barker, G. F. H., MA Camb.  
 Rowland, E. N., MA PhD Camb.  
 (Theoret. P.) Lectr.  
 Wood, R. G., MSc Macc., FIP  
 Howells, R. G., MSc  
 Grant, D. F., BSc PhD Durb., FIP  
 Vowden, P., BSc PhD Brit.  
 Hine, R., BSc PhD  
 Richards, J. P. G., BSc PhD  
 Delt, B. W., BSc Birm.  
 Densberry, R., BA N.Staffs., MSc Birm.  
 Asst. Lectr. Asst. Lectr.

2 Res. Assts.

## Physiology

Peterson, J. M., DSc Aberd.  
 Jordan, R. C., PhD DSc Lond.  
 Waters, E. T., PhD DSc  
 Stone, S. L., MSc MB BCh  
 Bewick, F. W., BSc MB BCh  
 Davies, H. E. F., BS MD Lond., BSc, MRCP  
 Mottram, R. F., BSc MB BS PhD Lond.  
 Prof. Reader Sr. Lectr. Sr. Lectr. Lectr. Lectr.

## Psychology

Westby, G., MA Oxon.  
 Liggitt, J., BSc Lond.  
 Gibbs, J. M., MA Camb. & Lond.  
 Prof. Sr. Lectr. Lectr.

## Semitic Languages, including Biblical Studies

Johnson, A. R., Hon. DD Ebru, PhD, FBA  
 Rowlands, Rev. E. R., BA Camb., MA  
 Ryder, Rev. E. T., MA Oxon., BD Lond.  
 Griffiths, Rev. D. R., MA Oxon., MTh Lond.  
 Prof. Lectr. Lectr. Lectr. Lectr.

## Spanish, see Hispanic Studies

## Statistics, see Maths, Pure

## Welsh

Jacman, A. O. H., MA  
 Lewis, C. W., BA  
 Rowlands, E. I., MA  
 Lewis, A., MA  
 Thomas, Miss Cwynen H., PhD N.U.I., MA Lond. & Wales (Dialectal.) Lectr.  
 Owen, Miss Morfydd E., BA Camb. & Wales Asst. Lectr.

## Zoology and Comparative Anatomy

Brough, J., DSc Mans.  
 Jefferson, G. T., BSc Lond., PhD (Entomol.) Sr. Lectr.  
 Evans, W. A. L., BSc Birm., MSc PhD  
 Erasmus, D. A., BSc PhD  
 Staddon, B. W., BSc PhD Durb.  
 Thompson, T. E., BSc PhD  
 Claridge, M. F., MA DPhil Oxon.  
 Edington, J. M., BSc Durb.  
 1 Res. Demr.  
 Prof. Sr. Lectr. Lectr. Lectr. Lectr. Lectr. Asst. Lectr.

## EXTRA-MURAL STUDIES

31 Cornhill Rd., Cathays Park, Cardiff  
 (Tel.: Cardiff 26971)

Dir. of Extra-Mural Studies  
 Tutor-in-Charge  
 I. Morgan, MA  
 Organizing Tutors  
 V. H. Jones, LLB Lond., BA; M. R. Haushor, BA  
 Staff Tutors  
 W. C. E. Gregory, MA Camb.; ...  
 172 Tutors

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar: Aeron Lewis. Bursar: W J Davey. Warden of Aberdare Hall: Barbara E. How, MA Oxon. Warden of University Hall: R. D. Cameron, MA Oxon. Warden of Llandaff House: J. D. Pels, MA Camb. Students' Advice Officer: W. H. Morgan, BSc(Econ) Lond., BSc Asst. Mrs. Lore Fraser. Radiation Protection Officer: J. W. Hughes, BSc PhD, FIP.

Sr. Adviser of Studies (Fac. of Arts): Prof. B. R. Rees. Advisers of Studies (Fac. of Arts): Rev. T. G. Davies, C. H. Ellob, M. G. Jarrett, W. A. Mathias, Thelma Morris, H. M. Quinn, R. G. Tostall. Sr. Adviser in Phys. Educn.: B. W. Mulsenan. Adviser in Phys. Educn.: Ethel M. Williams.

## ASSOCIATED INSTITUTIONS

WELSH NATIONAL SCHOOL OF MEDICINE (see p 1333) and the WELSH COLLEGE OF ADVANCED TECHNOLOGY, Cardiff (tel.: Cardiff 31546, Principal: A. Harvey, PhD BSc, FIP). These

two instns. are associated with the coll. in preparing candidates for the BPharm, and the latter institution also in preparing candidates for the BAich. See below under 'First Degrees'.

## GENERAL INFORMATION

Opened in 1883 and incorporated by royal charter in 1884, this is now one of the constituent colls. of the Univ. of Wales. In 1931 a supplemental charter was granted to the coll., and a charter of incorporation to the Welsh Natnl. Sch. of Med.

Cardiff (pop. 256,370), the capital of Wales and the port of the S. Wales coalfields, is situated in Glamorganshire.

INCOME (1960-61). Total income, £813,859 (univ. grant, 82.5 per cent.; endowments, 1 per cent.; tuition fees, 12.9 per cent.; other sources, 3.6 per cent.).

FACULTIES AND DEANS. Arts (1961-63), Prof. A. O. H. Jarman (Welsh), econ. & soc. studies, S. C. Parris, educe, Prof. E. Evans, music, Prof. J. Morgan; sci (1962-63), Prof. E. Williams (electr. engin.); theol., Prof. A. R. Johnson (Semitic langs.).

LIBRARY. Drespers' Co.'s libr., 178,000 vols.

MUSEUMS. ANTL., ZOOL. The Natnl. Museum of Wales (art, archaeol., zool., geol., bot.) is located in an adjacent bldg.

LABORATORIES. Physical res., with comprehensive equipment for X-ray diffraction investigation, an electronic computer, a Cobalt 60 'Hot-spot' radioactive source, etc.; engin. (including 100-ton testing machine); and usual sci. and med. res. labs. Ultra-mod. bot., geol. and zool. labs. are provided in the new (1962) nat. hist. wing.

ADMISSION. Classes are open to both men and women students of not less than 17 yrs. on Oct. 1 of the session of admission. Those wishing to read in the coll. for a degree of the Univ. of Wales must satisfy the univ. admission requirements. See Appendix III.

FIRST DEGREES (of Univ. of Wales). Candidates are prepared for the following initial degrees of the univ. (see p. 1311): BA, BMus, BSc Econ,

BSc (3 yrs. each, except BSc in engin., 4 yrs.), and in part for the degrees of BAich (5 yrs.) and BPharm (4 yrs.). Mod. students preparing for the MB BCH (6 yrs.) of the univ. pursue their prelim. med. studies at the coll. and their clin. studies at the Welsh Natnl. Sch. of Med. The course for the BAich of the univ., occupying 5 yrs., is pursued at the Welsh Sch. of Architect in the Welsh Coll. of Advanced Technol., Cardiff, and in the first 3 yrs. certain courses are pursued at univ. coll. Candidates preparing for the BPharm of the univ. are enrolled at the coll., pursue their studies at the coll. for the initial period of their course, and continue their trg. partly at the coll., the Welsh Natnl. Sch. of Med. and the Welsh Sch. of Pharmacy in the Welsh Coll. of Advanced Technol., Cardiff.

Full-time residence is required of all candidates for a first degree.

HIGHER DEGREES. Res. facilities and postgrad. courses of study are provided for candidates for higher degrees of the univ. (see p. 1311) and other univs.

DIPLOMAS. Univ. dipl.: educn., 1 yr. postgrad., theol., 3 yrs. Coll. dipl.: metalliferous mining, metall., each 3 yrs.; music, 2 yrs.; soc. sci., 2 yrs. (but 1 yr. for grads.), personnel management, post-cred. dipl. in appl. soc. studies, each 1 yr. After graduation in certain subs., suitably qualified students desirous of securing a dipl. in their sp. subs. may be awarded one without further study, while in other cases a grad. may be awarded such a dipl. after pursuing a modified course for 1 yr.

SCHOLARSHIPS. Numerous scholps. out of trust funds are awarded for competition at entrance, and after one or more yrs' residence other scholps. and prizes are awarded for meritorious work. (Details college Prospectus obtainable from the registrar.)

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 910.

Fees. See under Univ of Wales, above.

RESIDENCY. (For wardens, see 'Admin. and Other Staff', above) Hostel for women: Aberdare Hall, Cathays Park, Cardiff (tel.: Cardiff 21877), accomm. for 133, fees £160 per session (with luncheons). Hostels for men: University Hall, Birchwood Rd., Penylan, Cardiff (tel.: Cardiff 35641), accomm. for 218, fees £135 per session (without luncheons); Llandaff House, Earl Rd., Penarth, Glam. (tel.: Penarth 57995) (the warden), accomm. for 38, fees £125 per session (without luncheons). Board and lodging in Cardiff can be obtained from £4 per week.

STUDENT WELFARE. Students seeking advice on lodgings in Cardiff and on careers in their last yr. are advised to consult the coll. students' advisory officer, 51 Park Place, Cardiff (tel.: Cardiff 29802) (see 'Admin. and Other Staff', above). New students from overseas are especially advised to see him as soon as possible after their arrival in Cardiff.

STUDENT HEALTH SERVICE. See under Welsh Natl. Sch. of Med., below.

STUDENT ATHLETIC FACILITIES. Playing grounds are provided for most field sports, as well as facilities for swimming and rowing. A modern well-equipped gymnasium in its own building (49 Park Place, Cardiff) is also provided for the exclusive use of students. There is a lectr. in physical trng for men and one for women, who

act as coll. advisers in physical trng and games (see 'Admin. and Other Staff', above).

STUDENTS' UNION. The union bldg. in Dumbries Place, Cardiff (tel.: Cardiff 29846, 29807), provides for the social and cultural life of the student body; it has a refectory which is sometimes used for dances, lounges and games rooms, and it houses the headquarters of the students' union soc. Every student is required to pay a union amalgamation fee of £7:7s (£8:4s. 6d. for med. students), which contributes for membership of the students' union soc. and of all student clubs and socs affiliated to it. (Student publica. are the *Broadsheet*, *Cop and Gown*, *Horizon*, *Wail and Outrage*).

ADULT EDUCATION (for staff, see 'Extra-Mural Studies', above). A number of resident tutors and a staff tutor, aided by a panel of suitably qualified pt.-time teachers, provide an educat. service in liberal studies for the adult population of the coll. area. A section of the coll. library is devoted to the service of the classes, providing multiple copies of selected text-books on a wide range of topics. This branch of coll. work has its office at 31 Corbett Rd., Cardiff (tel.: Cardiff 26071).

PUBLICATIONS. *Annual Report of Coll. Council and Statement of Coll. Accounts* (Oct.); *Admission of Students* (terms of) (Oct.), *General Prospectus* (with syllabuses of study) (March), *Pharmacy Prospectus* (May), *Entrance Scholarships Prospectus* (Oct.); *Calendar* (triennially).

## THE YEAR 1961

PRINCIPAL BENEFICIARIES. Total value of all benefactions received: £68,905.

NEW DEPARTMENTS AND CHAIRS. Dept. & chair of psychol.

RETIREMENTS. Dr. W. R. D. Jones (formerly prof. of metall. & fuel technol.).

RESIGNATIONS. Dr. J. W. Bayles (chem.), apptd. to chair of phys. chem., Natal; Rev Dr. W. M. Merchant (Engl.), apptd. to chair of Engl., Exe.; C. B. Morris (Hispanic studies), apptd. hd. of sub-dept. of Spanish, Hull; Dr. D. Rogers (phys.), apptd. reader in chem. crystallog., Imperial Coll., Lond.; Dr. B. Spencer (biochem.), apptd. to chair of biochem., Dub.; N. W. Timms (econ.), apptd. lectr. in soc. study, Birmingham; Dr. H. H. Williams (zool.), apptd. asst. dir., commonwealth bureau of helminthol., St. Albans; Dr. T. H. Williams (anat.), apptd. lectr. in dept. of anat., Manc.

DEATHS. Emer. Prof. A. H. Cox (formerly prof. of geol.); C. Jones (lectr. & res. officer,

coll. fac. of educn.); S. Thomas (formerly asst. prof. of engin.).

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1468	42
Women	708	31
Total	2176	73

Distribution by Faculties, etc. *Appl. sci.*, 270; *archt.*, 10; *arts*, 939; *med.*, 154; *music*, 59; *pharm.*, 89; *physiotherapy*, 18; *pure sci.*, 590; *social sci.*, 23; *theol.*, 47. Total: 2185.

Included in the figures above are:—

Postgraduate students, 241.

New admissions, 814.

Students from other countries, 123. (Countries from which largest numbers came: Iraq, 39; India, 11; Nigeria, 11).



DEGREES AWARDED (by Univ. of Wales) (1960-1961): *Archt.*: BA(Bch), 3; *Arts*: BA, 207; MA, 8; DLitt, 2. *Med.*: MB BCh, 47; MD, 1; MCh, 1. *Mus.*: BMus, 10; MMus, 1. *Pharm.*: BPharm, 18; MPharm, 1. *Sci.*: BSc, 201; MSc, 9; PhD, 15. *Theol.*: BD, 5.

DIPLOMAS AWARDED (1960-61). *By Univ. of Wales*: teachers' dipl. in educn, 106; theol., 8. *By coll.*: music, 4; soc. sci., 17; personnel management, 8; metalliferous mining, 3.

CERTIFICATES AWARDED (1960-61). *By Univ. of Wales Sch. of Educn.*: teacher's cert. in educn., 9.

[Information compiled as at 10/8/62]

## UNIVERSITY COLLEGE OF SWANSEA

Founded 1920

Postal Address: Singleton Park, Swansea, Wales

Telephone: Swansea 25678

PRESIDENT—The Rt. Hon. THE VICOUNT TIMBY, TD, Hon. LLD

CHAIRMAN OF THE COUNCIL—Sir LEWIS JONES, JP, LLD

TREASURER—P. O. WILLIAMS, CBE

PRINCIPAL—J. H. PARRY, CMG, MBE, MA PhD Camb., FRHistS

REGISTRAR—J. McINTYRE, MA Glas

LIBRARIAN—F. J. W. HARDING, MC, MA BLitt Oxon, FLS, FRHistS

### TEACHING STAFF

#### Botany

Street, H. E., PhD DSc Lond  
 Isaac, I., BSc PhD Camb., DSc, FLS  
 Goodman, G. T., MSc  
 Hayward, J., BSc PhD  
 Brown, E. G., BSc PhD Liv.  
 Smith, A. J. E., BA Oxon., FLS  
 Opik, Helga, BSc PhD Belf.  
 Teallope, D. R., MSc  
 Sutton-Jones, B., BSc R'dg.  
 2 Res. Fellows, 1 Demonstr.

#### Chemistry

Hessell, C. H., MSc N.Z., PhD Camb., FRIC  
 Long, D. A., MA DPhil Oxon.  
 Summers, G. H. R., PhD DSc  
 Curtis, R. F., BSc PhD Brit.  
 Davies, R. H., MSc  
 Hallam, H. E., PhD Lond., MSc  
 Stedman, G., BSc PhD Lond.  
 Gallagher, K. J., BSc PhD Belf.  
 Schofield, J. A., BScTech PhD Manc.  
 Cross, J. R., DPhil Oxon., BSc  
 Ballantine, J. A., BSc PhD Liv.  
 Wellington, C. A., PhD St And., BSc  
 5 Res. Fellows, 2 Demos.

#### Classics

Kenferd, G. B., BA Med., MA Oxon.  
 Hill, H., MA Sluff.  
 Moorhouse, A. C., MA Camb. & Oxon.  
 Griffiths, J. G., DPhil Oxon., MA Liv.  
 BA  
 Smyth, W. R., MA Dub.  
 Prof.  
 Reader  
 Reader  
 Sc. Lectr.  
 Lectr.

#### Economics

Morgan, E. V., MA Camb.  
 Roberts, R. O., MA  
 Bell, I. C., MA  
 Rees, G. L., MA  
 Cleary, E. J., BA Manc.  
 Thomas, D. E. L., BA  
 Baird, W., MA Edin.  
 Gilbody, J. H., BA Liv.  
 Cox, P. G., MA N U I  
 Prof.  
 St. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Temp. Tutor

#### Education

Gitins, C. E., MA  
 Stephens, D. J., MSc  
 Lewis, Edith A., MSc PhD  
 Dale, R. R., MA Liv., MEd Lond.  
 Jones, V., BA  
 Prof.  
 Lectr., Master of Method  
 Lectr., Mistress of Method  
 Sc. Lectr.  
 (Phys. E.) Lectr.

Brown, A. (Speech Trg) Lectr.  
 Rothen, H., MA *Manc* Lectr.  
 Chazan, M., MA *Birm*, BA *Land & Water* Lectr.  
 Spolton, L., BSc *Land*, MEd *Notr* Lectr.  
 Begley, G. B., BSc *Land*, BEd *Belf* Lectr.  
 Burton, L., BSc(Econ) *PhD Land* Lectr.  
 Jones, B., DPhil *Oxon*, BA Lectr.  
 Williams, I. W., BSc *PhD* Lectr.  
 Williams, P., BSc *PhD Land*, MA *Cambr* Lectr.  
 Sharp, D. W. H., MA *Land* Lectr.  
 Evans, H. K., BA Lectr.

**Engineering**

Macmillan, R. H., MA *Cambr*, MIMechE (Mech E) Prof.  
 Zankiewicz, O. C., DIC, BSc *PhD Land*, (Mech E) Prof.  
 MICE (Civill E) Prof.  
 Fishwick, W., MA *PhD Cambr*, (Electr E) Prof.  
 Rooley, K. C., MSc *PhD Land*, (Civill E) Sr. Lectr.  
 Daniels, T. C., MSc *PhD* Lectr.  
 Sandover, J. A., DIC, BSc *Land*, *PhD Edu.* Lectr.  
 Dickinson, H., BSc/Tech *Manc* Lectr.  
 MacCormack, J., BSc Lectr.  
 Gosling, H. W., BSc *Land* Lectr.  
 Townsend, W. G., BSc *PhD* Lectr.  
 Davies, J. D., MSc(Eng) *PhD Land* Lectr.  
 Evans, H. E., BSc *PhD* Lectr.  
 Davies, T. H., MA *Cambr* Lectr.  
 Christie, D. M. E., MSc *Durh*, BSc Lectr.  
 Damore, R. O., BSc(Eng) *Land* Lectr.  
 Venkateswaran, S., BSc MA *Manc*, DIC, *PhD Land* Lectr.  
 Preece, R. W., BSc *Brist* Lectr.  
 Griffiths, R. J., BSc *Brist* Lectr.  
 Phillips, V. J., DIC, BSc(Eng) *PhD Land* Lectr.  
 Edes, W. E. Lectr.  
 Nicol, A. A., *PhD Edu.* Lectr.  
 Ramshaw, R. S., BSc *PhD Notr* Lectr.  
 Clarke, M. J., MA *Cambr* Lectr.  
 Holster, G. S., MSc *Land* Lectr.  
 Griffin, A., BSc *St. And.* Asst. Lectr.  
 z *Demos*.

**Engineering, Chemical**

Richardson, J. F., DIC, BSc(Eng) *PhD Land* Prof.  
 Lee, J. C., MA *PhD Cambr* Lectr.  
 Smith, J. M., BSc/Tech *Manc* Lectr.  
 Wood, R. M., BSc *Land*, *PhD Cambr* Lectr.  
 Thomas, W. J., *PhD Land*, BSc Lectr.  
 Gunn, D. J., MSc *Durh* Lectr.

**English**

Preece, C. J. L., MA *PhD* Prof.  
 Bartley, J. O., MA *DLit Belf* Sr. Lectr.  
 Westcott, Isabel M., BA *Brist*, *BLitt Oxon* Sr. Lectr.  
 Sims, D. L., BA *Oxon* Lectr.  
 Dawson, S. W., MA *Manc* Lectr.  
 Anglo, S., BA *PhD Land* Lectr.  
 Ekins-Hill, H. H., BA *PhD Notr* Lectr.

Smith, A. J., MA Lectr.  
 Dekker, G. G., MA *Calif.*, MLitt *Cambr* Asst. Lectr.  
 Haigh, Felicity A., BA *Land* Asst. Lectr.

**French**

Knight, R. C., MA *Oxon*, DStL *Paris* Prof.  
 George, F. W. A., BA *PhD Land* Lectr.  
 Mylne, Vivienne G., BA *Oxon*, *PhD Land* Lectr.  
 Lewis, R. A., MA Lectr.  
 Neumann, Edwin E., BA *Durh* Asst. Lectr.  
 Rosenthal, Elizabeth E., BA *Land* Temp Tutor

**Geography**

Bekim, W. G. V., MA *Cambr*, *PhD Land*, *FRMetS* Prof.  
 Oliver, J., BA *Brist*, *FRMetS* (on leave) Sr. Lectr.  
 Groom, Gillian E., BSc *Birm*, FGS Lectr.  
 Maling, D. H., BA *PhD Durh*, *FRMetS* Lectr.  
 Cousins, S. H., MA *PhD Cambr* Lectr.  
 Mansons, G., MA *Cambr* Lectr.  
 Davies, H. R. J., MA *BLitt Oxon* Lectr.  
 Humphrys, G., BSc *Brist*, MA *McG* Lectr.  
 Henderson, H. J. R., BSc *Sheff.*, MA *Leu* Lectr.  
 Bridges, E. M., MSc *Sheff.* Lectr.  
 Waite, D., BA *Land*, MA *Calif.* Temp. Lectr.  
 i Map Curator & Cartographer

**Geology**

Rhodes, F. H. T., BSc *PhD Birm*, FGS Prof.  
 Simpson, B., MSc *Leu*, FGS Sr. Lectr.  
 Owen, T. R., MSc, FGS Sr. Lectr.  
 Bloxson, T. W., BSc *Edu.*, *PhD Glas*, FGS Sr. Lectr.  
 Walsley, V. G., BSc *Manc*, *PhD*, FGS (on leave) Lectr.  
 Kelling, G., BSc *PhD Edu.*, FGS Lectr.  
 Hooper, P. R., BSc *St. And.*, *PhD Birm* Lectr.  
 Cope, J. C. W., BSc *Brist* Asst. Lectr.  
 i Res. Fellow, z *Demos*

**German**

Waidson, H. M., MA *Birm*, DrPhil *Leip.* Prof.  
 Taylor, R. J., MA *Land* Sr. Lectr.  
 Pepper, H., BA *PhD Brist* Lectr.

**History**

Williams, G., JP, MA Prof., Hd of Dept.  
 Davies, A., MA (Mod. H) Prof.  
 Minchinton, W. E., BSc(Econ) *Land* Sr. Lectr.  
 Minterman, N. C., MA *Cambr* Sr. Lectr.  
 Walker, D. G., BA *Brist*, DPhil *Oxon* Lectr.  
 Jones, I. G., MA Lectr.  
 Chamberlain, Muriel E., MA *DPhil Oxon* Lectr.  
 Greenway, W., MLitt *Cambr*, BA Lectr.  
 Morgan, K. O., MA *DPhil Oxon* (on leave) Lectr.  
 Davies, R. R., BA *Land* Asst. Lectr.

**Mathematics, Applied**

Oldroyd, J. G., MA *PhD SciD Cambr* Prof.  
 Evans, G. W., MA *PhD Cambr* Lectr.

Walters, T. S., MSc  
 Williamson, J., MA PhD Camb.  
 Jones, J. R., BSc PhD  
 Gurr, M., BSc(Eng) Lond  
 Smith, F. T. M., MA Camb.

Lectr. Morgan, C. G., MSc PhD, FIP  
 Lectr. (Ionization P.) Lectr.  
 Lectr. Miles, H. T., BSc PhD  
 Lectr. Thomas, K. A., MA DPhil Oxon  
 Lectr. Saunders, N. H., BSc PhD Leeds  
 Lectr. Jones, I. R., BSc PhD  
 Lectr. Davies, A. J., BSc Asst. Lectr.  
 George, H. E., MA Oxon., BSc Lond.

**Mathematics, Pure**

Weston, J. D., BSc(Eng) PhD DSc Lond. Prof.  
 Faulkes, H. O., DSc Reader  
 Zarembo, S. K., MSc PhD Croydon,  
 DePhil(Maths) Vilna Reader  
 Godwin, H. J., MA Camb. Sr. Lectr.  
 Keogh, F. R., BSc MSc, PhD Camb. Sr. Lectr.  
 Petersen, G. M., MA Stau., PhD Tor. Sr. Lectr.  
 Brennan, J. G., MSc Lectr.  
 Linden, C. N., PhD Camb., MSc Lectr.  
 Evans, I. G., MSc Lectr.  
 Davies, I. J., BSc PhD Asst. Lectr.  
 Baker, J. W., MSc R'dg. Asst. Lectr.  
 Res. Fellow

Davies, D. F., MA Oxon. Temp. Asst. Lectr.  
 Sr. Tutor

**Political Theory and Government**

Bromhead, P. A., MA DPhil Oxon. Prof.  
 Rees, J. C., MA Camb., BSc(Econ) Lond. Lectr.  
 Stacey, F. A., MA Camb., BPhil Oxon. Lectr.  
 Sabine, J. A., BSc(Econ) Lond. Asst. Lectr.  
 Bryden, R. E., BA Durh. Asst. Lectr.  
 Spence, J. E., BA Read, BSc(Econ) Lond. Asst. Lectr.

**Social Administration**

Lochhead, A. V. S., MA Oxon. Dir.  
 Walker, Muriel C., BA Manc. Lectr.  
 Leaper, R. A. B., MA Camb. Lectr.  
 Duques, D. Temp. Lectr.  
 Baxter, P. T. W., BA Camb., BLitt  
 DPhil Oxon. Temp. Lectr.  
 Reeves, Zoe P., BA Lond. Temp. Lectr.  
 Harris, C. C., BA Oxon. Jr. Res. Officer

**Welsh**

Morgan, T. J., MA DLitt Prof.  
 Bevan, T. H., MA Sr. Lectr.  
 Evans, D. E., DPhil Oxon., MA Lectr.  
 Harries, W. G., BA Lectr.

**Zoology**

Knight-Jones, E. W., DPhil Oxon., BSc Prof.  
 Macfadyen, A., MA Oxon. St. Lectr.  
 Naylor, E., BSc Sheff., PhD Liv. Lectr.  
 Makings, P., BSc PhD Lond. Lectr.  
 Kemp, R. F. O., MA Oxon. (Genetics) Lectr.  
 King, P. E., BSc PhD Hull Lectr.  
 James, B. L., BSc Asst. Lectr.  
 Res. Fellow, 1 Demo

**UNIVERSITY EXTENSION**

Llewellyn-Jones, F., MA DPhil DSc Oxon.,  
 FIP Prof.  
 Davidson, P. M., BA Camb., PhD Lond. Reader  
 Hopkins, M. R., MSc PhD, FIP (Theoret. P.) Reader  
 Wright, L., MSc Sheff., FIP (Metal P.) St. Lectr.  
 Dutton, J., BSc PhD, FIP Sr. Lectr.  
 Griffin, L. R., MSc Lond. Lectr.

Williams, I. M., MA Dir. of Extra-Mural Studies  
 Lewis, G. I., BA Staff Tutor  
 Thomas, T. W., BA Staff Tutor  
 Williams, J. E., MA Staff Tutor  
 Way, B., MA Camb., BA (on leave) Staff Tutor  
 Thomas, J. H., BA Staff Tutor  
 Jenkins, W. E., BA Staff Tutor

**ADMINISTRATIVE AND OTHER STAFF**

Dep. Registrar, A. S. Jeffreys, BLitt Oxon.  
 BA Accountant, R. E. Hurst, DPA, Works &  
 Buildings Officer, J. M. Richards Admin.

Asst. B. Lloyd Davies, BA; D. W. Dykes,  
 MA Oxon.; J. Dermody; J. J. Harris, Halls  
 of Residence. Book Hall, Elise Griffiths, MA

Camb (Warden), Neuadd Gilbertson, H. W. Gosling, ARCS, BSc Lond. (Warden); Neuadd Lewis Jones, R. A. B. Leaper, MA Camb (Master); Neuadd Sibly, Prof. W. Fishwick, MA PhD Camb (Master). Med. Officer: T. C. Dann, MA MB BChir Camb. Radiation Pro-

tection Officer: M. R. Hopkins, MSc PhD, FIP. Careers Adviser & Student Welfare Officer: E. N. Evans, JP, BA. Asst.: Pamela J. Gilbert, BA Lond. Sub-Librarians: D. E. Bussby, BA. Shelf: D. M. Ellis, BA. Sec. for Fac. & Dept. of Educn.: R. E. George, BA.

## GENERAL INFORMATION

Incorporated by royal charter, dated Jan. 21, 1920, the coll. was made a constituent coll. of the Univ. of Wales by a supplemental charter granted to the univ. on Aug. 13, 1920.

Swansea (pop. 160,832) is a port and univ. town on the S. Wales coast.

Income (1960-61). Total income, £663,536 (incl. univ. grant, 81 per cent.; grants for res., 3.7 per cent.; endowments, 0.5 per cent.; fees, 12.4 per cent.).

FACULTIES AND DEANS. Appl. sci., Prof. R. H. Macmillan (mech. engin.), art. H. Hall (classics); sci., Prof. H. E. Street (bot.).

UNIVERSITY PREMISES. The admin. offices, assembly hall, some common rooms and staff rooms are accom. in a mansion in Singleton Park, presented, together with about 46 acres of land surrounding it and 15 acres for playing-fields, by the corporation of Swansea, which also gave £50,000 towards the cost of sci. bldgs. Extensive labs. have been erected in the park on a site adjacent to the main coll. bldg. for the depts. of metall., engin., chem. engin., chem., and phys., and also bldgs. to accom. the arts depts., the library, the refectory and common rooms.

In 1956 the 1st stage of the new natural sci. bldg., housing the depts. of bot., zool., geol. and geog., was opened. Clyn Castle has been extensively modernized and adapted and a large dormitory annex added, as a hall of residence to accom. 100 students.

The coll. has approved a revised plan prepared by its architect for the devel. of the campus which follows the traditional univ. principle of courts and quadrangles, and provides for academic bldgs., halls of residence and admin. offices on the Singleton Park site. The new chem. bldg., the second stage of the nat. sci. bldg., and an extension to the women's hall of residence were completed in 1960. In the autumn of 1961 3 new bldgs. were ready at Singleton: a large multi-story hall of residence each to accom. over 200 men; and a handsome and spacious coll. house designed to serve as the soc. centre of the coll. community, with refectories, common rooms and other amenities. The coll. hopes to build a further hall of residence on the Singleton site in the near future. An extn. to the library has been started, together with work on stage I of the new arts bldg. A bldg. to house the proposed new sch. of soc. studies was commenced in Jan. 1962.

LIBRARY 109,403 books, 38,214 bound periodicals, 24,610 pamphlets

LABORATORIES. All the coll. labs. (bot., chem., chem. engin., engin., geog., geol., metall., phys., zool.) are well equipped and incl. experimental plant for instruct. and res.

ADMISSION. All students entering the coll. must be at least 17 yrs. of age and be qualified to matric. in the Univ. of Wales (See Appendix II).

FIRST DEGREES (of Univ. of Wales) (see also p. 1311). BA, BSc in pure sci., in engin. (mech., civil, electr.), in chem. engin., in metall. Engin. students are expected and, where necessary, helped to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occas. lectures are given by experts on business admin. and managerial side of indust. undertakings. Complete prelim. sci. course for med. students (1 yr.) and classes in law for articled clerks (1 yr. pt.-time).

No initial degree can be obtained without attendance upon prescribed courses in the univ. coll. extending over at least 3 academic yrs. after matric. BA with hon. may be obtained in any one of the following 10 schs.: Greek, Latin, Engl., Welsh, French, German, hist., econ., philos., pure maths., appl. maths., geog., and jointly in classics; French & German; mod. hist. & philos.; mod. hist. & econ.; philos. & econ.; mod. hist. & pol.; philos. & pol., econ. & pol.; maths.

BSc in pure sci. (pass and hon., 3 yrs.) may be taken in all subjects in the fac. There are honours schs. in pure maths., appl. maths., maths., phys., chem., geol., geog., bot., zool., econ.; BSc in appl. sci. (pass and hon., at least 3 yrs.), in engin. (mech., civil, electr.), chem. engin. and metall.

HIGHER DEGREES (of Univ. of Wales). MA, MSc, PhD, DLitt, DSc. See p. 1311.

DIPLOMAS. Univ. dipl.: teacher's dipl. in educn., 1 yr. postgrad. Coll. dipl.: soc. welfare (for overseas students), youth leadership & organization, each 1 yr.; soc. admin., a yrs. (autably qualified gradu. may be allowed to complete the course in 1 yr.); cartography, mathematics & computational analysis, each 1 yr. postgrad.; math. phys., 2 yrs. postgrad.; chem. engin., 1 yr.; educn. of backward children, 1 yr. (for practising teachers); educn. psychol., 1 yr.

RESEARCH. All depts. of the coll. have facilities for postgrad. and res. work, and the respective profs. are always prepared to advise students

wishing to undertake res. See *Annual Report of the College Council*

**Fees** See under Univ. of Wales, above

**ACADEMIC YEAR.** Oct. to June: 3 terms of 10½ wks. each

**ADULT EDUCATION** (see also 'Teaching Staff', above). The coll. has an extensive scheme of extra-mural work. The jt. tutorial classes enter arrangements for the provision of tutorial and sessl. classes and univ. extension courses. The L.R.A.s and W.E.A. are represented on this comm.

**PRINCIPAL 'OPEN' AWARDS** (scholarships, bursaries, grants, etc.). A number of open scholps of annual value of £40 each are offered for competition on results of an exam. held in Feb. each yr.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910

**APPOINTMENTS BOARD** See under Univ. of Wales, above.

**OLD STUDENTS' ASSOCIATION** Sec.: Miss G. P. Rees, c/o S.R.C., Univ. Coll., Swansea

**STUDENT RESIDENCES.** For women: Beck Hall

of Residence, Gwyd Gardens, Uplands, Swansea (tel. Swansea 56320), 119 students; fee, £150 p.a. For men: Neuadd Gilbeaton, Blackpill, Swansea (tel. Swansea 68189), 100 students, fee, £150 p.a. Neuadd Sibly (tel. Swansea 24678), Neuadd Lewys Jones (tel. Swansea 25678), 200 students each, fee, £150 p.a. A list of lodgings is kept by the careers adviser and student welfare officer.

**STUDENT HEALTH SERVICE.** See under Welsh National Sch. of Med., below

**STUDENTS' REPRESENTATIVE COUNCIL.** Elected annually by the students, and is responsible for the social and athletic life of the students

**STUDENTS' UNION** College House, Singleton Park (tel. Swansea 25678).

**PUBLICATIONS** Coll. *Prospectuses*, general, appl. sci. depts, dept. of educn, dipl. course in soc. admin., Beck Hall of Residence, entrance scholps exam; coll. *Gazette* (at beginning of each term), *Annual Report of College Council*, Student publications: *Dawn* (coll. magazine) (Dec. and June); *Craft* (student newspaper)

## THE YEAR 1961

**PRINCIPAL BENEFITATIONS.** Donations and annual subscriptions amounting to £123,130.

**REIGNATIONS.** I. C. Robson (Engl.), elected 105 fellow, Churchill Coll., Camb.; Prof J. C. Rees (pol. theory & govt.); J. F. Lively (pol. theory & govt.), apptd. lectr., Sussex; D. S. Mansell (engin.), apptd. lectr., Melb.

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1238	27
Women	416	15
Total	1654	42

Distribution by Faculties *Appl. sci.*, 377; *arts*, 713; *pure sci.*, 606. Total 1696.

Included in the figures above are:—

Postgraduate students, 268

New admissions, 691

**DEGREES AWARDED** (by Univ. of Wales) (1960-1961): *Arts*, BA, 22; BA honrs., 72; MA, 3; PhD, 1. *Sci.*: BSc, 65; BSc honrs., 141; MSc, 6; PhD, 17; DSc, 1. Total number of first degrees awarded, 300.

**DIPLOMAS AWARDED** (1960-61) *By Univ. of Wales*: DipEd, 101. *By coll.*: youth leadership & orgn., 12; soc. sci., 15; mathl. stats & computational analysis, 1; mathl. phys., 2; soc. welfare (for overseas students), 21.

**CERTIFICATES AWARDED** (1960-61). *By Univ. of Wales Sch. of Educn.*: teachers' cert., 7.

*[Information compiled as at 13/9/62]*

## WELSH NATIONAL SCHOOL OF MEDICINE

Incorporated by Royal Charter 1931

Postal Address: 34 Newport Road, Cardiff, Wales

Telephones (Provost and Secretary). Cardiff 28434

PRESIDENT—SIR CLAUDE PRICE THOMAS, KCVO, LLD, FRCP, FRCS

PROVOST—A. THOMAS JONES, MD Lond., FRCP

VICE-PROVOST—PROFESSOR F. W. LANDGREEN, DSc Aberd.

DEAN OF CLINICAL AND POSTGRADUATE STUDIES—A. G. WATKINS, MD Lond., BSc, FRCP

HONORARY TREASURER—D. W. VAUGHAN, CBE, JP

SECRETARY—F. DODSWORTH, FCIS

LIBRARIAN—ELEANOR L. JONES

## TEACHING STAFF

[†=Part-Time; (C)=Clinical Teacher]

(For subjects of first 3 yrs.—Anat.,  
etc., see Univ. Coll., Cardiff)

## Anæsthetics

Mushin, W. W., MA Oxon, MB BS Lond.,  
FFARCS Prof., Dir  
Musgrave, A. H., FFARCS †(C)  
Jones, I. R., FFARCS †(C)  
Roberts, Barbara C., BSc MB BCh,  
FFARCS †(C)  
Pruken, D. K. W., BSc MB BCh, FFARCS †(C)  
Galloun, S., MB ChB Cape T., FFARCS †(C)  
Thompson, P. W., MB BCh Camb.,  
FFARCS †(C)  
Roes, L., BSc MB BCh, FFARCS †(C)  
Mapleson, W. W., BSc PhD Durk. Res. Asst.

## Bacteriology, see Pathol.

## Child Health

Watkins, A. G., MD Lond., BSc, FRCP Prof.  
Guy, O. P., MB ChB Birm. Sr. Lectr.  
Laurence, K. M., MA Camb., MB ChB Lond.  
(Paediatric Pathol.) Sr. Lectr.  
Bray, P. T., BSc MB BCh †Lectr.  
Jacobs, J., MD Lond. †Lectr.  
Richards, Frances M., BSc MB BCh Res. Asst.

## Dentistry

Cooke, B. E. D., MDS Lond., FDSRCS Prof.  
Murray, A. L. †(C)  
Smith, J. I., LDS Ldb. †(C)  
Brown, G. M. A. †(C)

## Dermatology

Hodgson, G. A., MBE, MA DM Oxon †Lectr.  
Waddington, E., MD Lond. †(C)

## Forensic Medicine and Toxicology

James, W. R. L., BSc MD  
Knight, B. H., MB BCh (Forensic Med.) Reader  
Graham, J. D. P., BSc MD Edin, FRCP.  
FRFPGS (Toxicol.) Lectr.

## Geriatrics

Thomas, G. F. J., DPH †Hon. Clin. Teacher  
Paddy, M. S. †(C)

## Hygiene and Public Health

Lowe, C. R., MD ChB PhD DPH Birm.  
(Prev. Med.) Memsal Talbot Prof.  
Hitchens, R. A. N., MD DPH †Sr. Lectr.  
Bevan, R. T., MD DPH †Lectr.  
Phillips, W. P., OBE, DPH †Lectr.  
Campbell, H., BA Lond., MB BS Durk.  
(Med. Stats) Sr. Lectr.  
Davies, Mary E. Health Visitor Tutor

## Medicine

Scarborough, H., MB ChB PhD Edin.,  
FRCP, FRCPed Prof., Dir  
James, A. H., MA DM Oxon, MD Tor.  
Reader, Asst. Dir.  
Fourman, P., DSc MD Lond., FRCP †Reader  
Thomas, J. P., MD Camb. Lectr.  
Flynn, T. G., BSc Res. Asst.  
Phillips, W., MD, FRCP †(C)

- Howells, L. H., MD *Lond*, FRCP †(C)  
 Jones, I. G., MD *Lond* †(C)  
 Williams, D. A., MSc MD, FRCP †(C)  
 Evans, B., MD *Lond*, FRCP †(C)  
 Thomas, A. J., MD DPH, FRCP †(C)  
 Spillane, J. D., MD BSc, FRCP (Neurol.) †Lectr.  
 Ball, J. D., MD *Lond* †(C)  
 Gibson, J. C., OBE, MA MB BChir Camb., FRCP †Hon Clin. Teacher
- Obstetrics and Gynaecology**  
 Duncan, A. S., DSc, MB ChB *Edin.*, FRCSed, FRCOG Prof.  
 Lawson, J. G., MD *St. And.*, FRCOG St. Lectr.  
 Maliphant, R. G., MD *Lond.*, FRCS, FRCOG †Lectr.  
 Evans, M. D. A., MD, FRCSed, FRCOG †Lectr.  
 John, A. H., MB BS *Lond*, FRCSed Lectr.  
 Curran, R. C., MB BCh †(C)  
 Phillips, Miss Grace M. †Dentr.
- Ophthalmology**  
 Gluck, B., MA MB MCh *Dab.*, FRCSed †(C)  
 Graham, M. V., MB BCh, FRCS, FRCSed †(C)  
 Graham, P. A., MB ChB *Glas.*, FRCS †(C)
- Oto-Rhino-Laryngology**  
 Owen, R. D., CBE, BSc, FRCS, FRCSed †Lectr.  
 Thomas, H. A., BSc MB BCh, FRCSed †(C)  
 Thomas, J. A. B., BSc MB BCh, FRCS †(C)
- Pathology and Bacteriology**  
 Gough, J., BSc MD Prof., Dir.  
 Thomson, S., DPH *Edin.*, MD, FRCP (Bacteriol.) †Prof.  
 Whiteley, H. J., PhD BSc MD *Sheff.* (Pathol.) Reader  
 Leopold, J. G., MB BCh (Pathol.) Sr. Lectr.  
 Holman, R. A., MD *Lond.* (Clin. Bacteriol.) St. Lectr.  
 Callaghan, P., BSc MB BCh Asst. Bacteriologist  
 Jacobs, A., MD BS *Lond.* Sr. Lectr., Haematologist  
 Bloren, A. L., MB ChB *Sheff.* Asst. Haematologist  
 Wathey, J. L., MB BS *Lond.* (Clin. Pathol.) Lectr.  
 Payne, E. E., BSc MD Lectr.  
 Deane, T. M., MB ChB *Birm.* Blood Trans. Officer  
 Ryder, R. C., MB BCh (Pathol.) Asst. Lectr.  
 Thomas, D. B., MB BS *Lond.* (Pathol.) Asst. Lectr.  
 Entwistle, C. C., MB ChB *Birm.* Asst. Clin. Pathologist  
 Wentworth, P., MB BCh Res. Clin. Pathologist  
 Drummond, R. J. †Hon Clin. Teacher  
 Keyser, J. W., PhD MSc *Lond.*, FRIC (Chem. Pathol.) Sr. Lectr.  
 Nethercott, S. E., BSc (Biochem.) Lectr.  
 Smith, S. G., BSc *Birm.* Asst. Biochemist
- Watkins, G. L., BSc Asst. Biochemist  
 Spillane, Mary T., BSc Asst. Biochemist  
 August, Pamela D., BSc Asst. Biochemist  
 Phillips, W. P., OBE, DPH (Vaccination & Practice of Immunization) †Instr.  
 Parry, T. E., MB ChB *Manc.* †(C)
- Pharmacology**  
 Landgrebe, F. W., DSc *Aberd.* Prof.  
 Graham, J. D. P., BSc MD *Edin.*, FRCP, FRFPSCGlas Reader  
 Ancill, R. J., MB ChB *Brist.* Lectr.  
 Mitchell, G. M., MB ChB *Aberd.* Lectr.  
 Tonks, R. S., PhD BPharm Lectr.
- Physical Medicine**  
 Lloyd, K. N., MB BS *Lond.* †Lectr.
- Preventive Medicine, see Hyg. and Pub. Health**
- Psychological Medicine**  
 Spillane, J. P., BSc MD †Lectr.  
 Lewis, D. †(C)  
 Evans, M. †(C)
- Radiology**  
 Hanson, E. H., TD, MB BS *Durb.*, DMR *Lond.* †Lectr.  
 Hinde, G. de B. †(C)  
 Bligh, A. S., MB BS *Lond.*, FFR †(C)
- Radiotherapy**  
 . . . †Lectr.
- Surgery**  
 Forrest, A. P. M., BSc MD ChM *St. And.*, FRCS, FRCSed, FRFPSCGlas Prof., Dir.  
 Aldis, A. S., BSc MB BS *Lond.*, FRCS Sr. Lectr., Asst. Dir.  
 Heard, G. E., BSc MB MCh, FRCS Sr. Lectr.  
 Ionn-Jones, D., BSc MB BCh, FRCS †(C)  
 Lysaght, A. C., FRCS †(C)  
 Foster, D. B. E., BSc MB BCh, FRCSed †(C)  
 Wade, J. S. H., MC, FRCS †(C)  
 Jones, H. O., MB MS *Lond.*, FRCS †(C)  
 Jenkins, D. H., BSc MB MS *Lond.*, MB BCh, FRCS †(C)  
 Evans, D., BSc MB BCh, FRCSed (Fractures) †(C)  
 Mogg, R. A., BSc MB MCh, FRCS †(C)  
 Lewis, R. E., FRCS †(C)  
 Morris, D. G., BSc MB BCh, FRCSed †(C)  
 Langmaid, C., MB BS *Lond.*, BSc MB BCh, FRCS †(C)  
 Hurley, H. R. S., MB MS *Lond.*, FRCS †(C)  
 Thomas, D. M. E., FRCS †(C)  
 Richards, H. J., MB BS *Lond.*, FRCS †(C)
- Tuberculosis and Chest Diseases**  
 Cochran, A. L., MBE, MB BChir Camb. David Davies Prof.

Graham, S. H., MD <i>Edin.</i> , DPH TDD	Lectr.	West, L. R., MB BS <i>Adel.</i>	†(C)
Morris, J., MD <i>Dipl. Bact. Lond.</i>	†Lectr.	Gilson, J. C., OBE, MA MB BChc <i>Camb.</i> ,	†Hon. Clin. Teacher
Seal, R. M. B., BSc MB BCh	Lectr.	FRCP	
Foote, H. M., MBE, MB ChB N.Z.	†Lectr.		
Evans, D., BSc MB BCh, FRCS <i>Ed.</i>	†(C)		
Harley, H. R. S., MB MS <i>Lond.</i> , FRCS	†(C)		
Thomas, D. M. E., FRCS	†(C)		
Williams, N. V., MB ChB <i>Edin.</i> ,	†(C)		
DPH <i>Lond.</i>		Peterson, Miss. Jean, DPH <i>Abesd.</i> , MD	†Asst. Lectr.
		Ribeiro, J.	†(C)

## Venereal Diseases

## ADMINISTRATIVE AND OTHER STAFF

Asst. Sec. - E. K. Downing Student Health Officers: Edith McKnight,  
BSc MB ChB DPH *Glas.*, . . .

## GENERAL INFORMATION

The Welsh National Sch. of Med. originated in the institution of depts in anat. and physiol. at the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, in 1893. On Feb. 5, 1931, a royal charter of incorporation was granted to the sch.

The various depts. of the sch. are located as follows: pharmacol., prev. med.—Inst. of Prev. Med., The Parade, Cardiff; tuberculosis & chest diseases (postgrad. lab.)—Sully Hosp., nr. Penarth, Glam.; med. unit, surg. unit, inst. of pathol., anaesthetics—Royal Infirmary, Cardiff; obstet. & gynaeol.—Maternity Hospital, Cardiff; child health—Llandough Hospital, nr. Penarth, Glam.

INCOME (1960-61). Total income: £310,797 (univ. grant, 72.2 per cent.; endowments, 0.7 per cent.; tuition fees, 4.2 per cent.; services, 33.3 per cent.; other sources, 4.6 per cent.).

ADMISSION. To be eligible for admission as a med. student every candidate must present a cert. showing that he has satisfied the requirements for matric. in the Univ. of Wales (see Appendix III). The course for the degrees of MB BCh consists of 3 parts: pre-med. (3 academic terms), which can be taken in any of the four constituent colls. of the Univ. of Wales; pre-clin. (6 terms), taken in the Univ. Coll. of S. Wales and Monmouthshire, Cardiff; clin. (33 mos.), taken in the Welsh Natl. Sch. of Med. No candidate will normally be accepted for admission to the 2nd yr. of the med. course unless he has obtained approved passes in chem., phys. and bion. or zool. in an exam. for the G.C.E. at advanced or scholarship level, or in another exam. deemed adequate by the admitting authority.

LIBRARIES. Library, situated at med. sch. house, Howard Place, Cardiff, consists of a lending and reference libr. Libr. of Cardiff Med. Soc. also housed there. Dept. libr. at following depts: anaesthetics, child health, med. unit, obstet. & gynaeol., pathol., pharmacol., prev. med., surg. unit, tuberculosis. Total stock of main, dept. and Cardiff Med. Soc. libr.: bound periodicals and texts, 16,349; pamphlets, 2449.

Sp. collection. Lloyd-Roberts collection of 17th- and 18th-cent. texts.

TEACHING HOSPITALS. United Cardiff Hosps. (Cardiff Royal Infirmary and Maternity H., Llandough H. Other clin. instns.: St David's H.; Whitcomb H.; Lansdowne (Isolation) H.; Prince of Wales' (Orthopaedic) H., Rhydlafar, Cefn Mably and Glas Ely (Tuberculosis) and Sully (Chest Diseases) Hosps.

FIRST DEGREES (of Univ. of Wales) 5 yrs 2 terms—MB BCh.

While the courses of instruct. are designed to meet the reqs. for the degrees in med. and surg. of the Univ. of Wales, they are also recog. as satisfying the external reqs. for the MB BS degrees of the Univ. of London and the reqs. of other univs.

HIGHER DEGREES (of Univ. of Wales). MD, MCh, PhD. See p. 1311.

DIPLOMAS. *Univ. dipls.* (see also p. 1311): DPH, 18 mos. pt-time; DTCD (tuberculosis & chest diseases), 6 mos.

OTHER COURSES. Course of instruct. for health visitors (9 months) leading to cert. of Royal Soc. of Health.

Fees. See under Univ. of Wales, above.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 910.

RESIDENCES AND RESIDENCES (warden: W. H. Lewis). The refectory and residences are combined. There is accomm. for about 75 residents—£100-£120 p.a. port board (incl. vacation term).

STUDENT HEALTH SERVICE. The univ. has establd. a student health dept. which is accomm. in the med. sch. house. The med. officers conduct exams. of all students of the Univ. of Wales free of cost and are also available for free consultation and advice.

MEDICAL STUDENTS' CLUB. Med. students of all yrs., whether in the Univ. Coll. of South Wales



and Monmouthshire, Cardiff, or in the Welsh National Sch. of Med., become members of the med. students' club and of the students' union soc. of the Univ. Coll., Cardiff.

The student organizations provide numerous soc. functions as well as facilities for rugby and assocn. football, hockey, tennis, cricket, squash and swimming.

The med. students' club includes a scientific soc. which arranges lectures, demonstrations and discussions on med. and cognate subjects.

TERMS (1962-63), Oct. 2-Dec. 14; Jan. 8-March 22, April 23-June 23.

PUBLICATIONS *Prospectus and Regulations* (free). Students' mag., *The Leech*, 22, twice a yr.

## THE YEAR 1961

RETIREMENTS. E. Lewis-Faming (statistician).

RESIGNATIONS. R. T. Hughes (pathol.), apptd. sr. registrar in pathol., Glasgow Royal Infirmary; R. B. Pryne (pathol.), apptd. lectr. in chem. pathol., Leeds; G. Grant (sr. student health officer), apptd. hd. of coll. health service, King's Coll., Newcastle upon Tyne; Miss Joyce F. Grant (obstet. & gynaecol.).

DEATHS. C. C. R. Downing (lectr. in venereal dis.).

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time Part-Time	
Men . .	94	49
Women . .	64	6
Total . .	158	55

Distribution by Faculties *Med.*, 213

Included in the figures above are —

Postgraduate students, 33.

New admissions, 45.

Students from other countries, 34 (Countries from which largest numbers came: Pakistan, 7, India, 6).

DEGREES AWARDED (by Univ. of Wales) (1960-1961). MB BCH, 45; MD, 4; MCh, 1; PhD, 1; MPhil, 1; MSc, 1.

DIPLOMAS, ETC. (1960-61). DTCD, 29; LRCP, MRCS, 3; DCH, 2; DPM, 2.

CERTIFICATES (1960-61). Health visitors, 15.

# ST. DAVID'S COLLEGE, LAMPETER\*

Founded 1822

Postal Address: Lampeter, Cardiganshire, Wales

Telephone: Lampeter 42

VISTOR—THE LORD BISHOP OF ST. DAVID'S

PRINCIPAL—Rev. Canon J. R. LLOYD THOMAS, MA Oxon.

BURSAR—Wing Commander G. SMYTH, MBE, DFC

Sub-LIBRARIAN—R. C. RIDER, MA Camb, FLA

## TEACHING STAFF

### Classics

Harris, H. A., MA Oxon Prof.  
Nawro, F. R., MA Oxon Lectr.  
Barton, I. M., MA Camb Lectr.  
Estough, G., MA Lond. Asst. Lectr.

### English

Boorman, S. C., MA Lond. Prof.  
Sembrook, A. J., MA Oxon, PhD Not. Lectr.  
Ogden, J., BA Durh., BLitt Oxon Asst. Lectr.

### French

..... Prof.  
Jones, R. S., MA Wales, PhD Lond. Lectr., Hd. of Dept.  
Anderson, Elizabeth R., MA PhD Edin. Lectr.

### History

Chandaman, C. D., BA PhD Lond. Prof.  
David, Rev. F. J. T., MA Oxon, BA Lectr.  
Jones, G. D., BA Wales Asst. Lectr.  
Jones, T., BA Camb. Asst. Lectr.  
Ryder, A. J., MA Oxon, PhD Lond. Asst. Lectr.

### Mathematics

Morton, V. C., MA Camb Lectr., Hd. of Dept.  
Renowden, Mrs. Ruth C. M., MA Camb Lectr.

### Pastoral Theology

Wood, Rev. T., MA BD Leeds D. J. James Prof.

### Philosophy

..... Prof.  
Renowden, Rev. C. R., MA Oxon, BA Lectr., Hd. of Dept.  
Butke, T. E. B., BA PhD Dub Lectr.

### Theology and Hebrew

Hunt, Rev. E. W., MA Durh., BD Birn., BLitt Oxon. Prof.  
Morris, Rev. P. M. K., MA Oxon. (Theol.) Lectr.  
Macdonald, Rev. J., MA BLitt Oxon. Lectr.  
Jones, Rev. W. D., BA BD LTH Lectr.

### Welsh

..... Prof.  
Marks, Rev. D. F., BA Wales, MA Oxon. Lectr., Hd. of Dept.  
Evans, D. S., MA BD Wales, BLitt Oxon. Lectr.

## GENERAL INFORMATION

Incorporated by royal charter (1822), the coll. was originally founded to provide a residential univ. for men preparing for holy orders; its arts fac. was recognised by royal charters (1865 and 1896) as open to all students without religious test.

In July 1961 St. David's Coll. was admitted to the list of univ. colls. recognised by the Univ. Grants Ctee for 'Treasury grants, under a sponsorship scheme jly. agreed between the Univ. Grants Ctee., the Univ. Coll. of South Wales and Monmouthshire, Cardiff, and St. David's Coll. Under this agreement St. David's Coll. has accepted the metric. regim. of the Univ. of Wales, and in 1962-63 will bring its BA degree structure and syllabuses into line with those of

the Univ. Coll., Cardiff; and the Univ. Coll., Cardiff, has undertaken to provide help in teaching specialist subj. From 1962 to 1963 St. David's Coll. will conduct its own BA degree exams. through a system of internal and external examiners, and the present external bd. of examiners appointed by Oxford and Cambridge will continue for the BD degree only. The sponsorship scheme will operate for ten yrs, and during this time the places for arts students will be increased to 250. The teaching staff will be further increased as the no. of students increases.

Income (1960-61). Total income. £43,000 (no grants)

\* Associate Member of the Association of Universities of the British Commonwealth

LIBRARY 50,000 vols

**COLLEGE PREMISES.** The main coll. bldg., comprising chapel, dining-hall, library and students' rooms on the staircase pattern, is set round a quadrangle and is now scheduled as a historic bldg. The campus of 14 acres also includes the Canterbury bldg. (students' hostel and lecture rooms), an assembly hall and lecture room block, and lies off the main street of the seaside and market town of Lampeter. There are 3 small houses in the town, including Burgess hall (see below). Under a bldg. programme a block of students' rooms, a new library and new dining-hall and kitchens are planned.

**ASSOCIATED INSTITUTION.** Bishop Thomas Burgess theological hall (1940) (Anglican).

**ADMISSION.** Students over 17 yrs are admitted to BA courses (1) on the cert. of a matric. exam. of a univ. recognized by the Assocn. of Univs. of the British Commonwealth; (2) on the General Cert. of Educn. of any of the recognized British examining bodies, provided that the cert. contains at least 5 subjs., 2 of which have been passed at advanced level, and incl. (i) Engl. lang. or Welsh lang., (ii) an addnl. lang. other than that selected under (i), (iii) maths or an approved sci. subj. Grads. only are admitted to the BD and LTh. Admission to the dipl. course in theol. is by 5 subjs. at the ordinary level of the G.C.E., which must incl. Engl. lang. or Welsh lang.

**FIRST DEGREES.** BA of St. David's Coll., Lampeter (9 terms' residence required) Candidates may proceed for further and higher degrees

to all British univs. BA degree fully recognized for all Burnham et al. awards to grads.

**HIGHER DEGREES.** Grads. of St. David's Coll. may proceed to the BD and are required to establish 10 terms' residence. Grads. of other univs. are admitted to the BD course and are required to establish 10 terms' full-time residence.

**LICENCE IN THEOLOGY.** Open to grads.; requires 6 terms' full-time residence.

**DIPLOMA IN THEOLOGY.** Full-time residence required (2 yrs. for grads., 3 yrs. for non-grads.) If taken as a member of Burgess theol. hall the dipl. confers exemption from the general ordination exam.

**SCHOLARSHIPS.** Numerous scholps. out of trust funds offered for competition at entrance, and after 1 or more yrs' residence other scholps. and prizes are awarded. Postgrad. studentships given to men proceeding to other univs. (Details in coll. *Memoirs* obtainable from principal).

**FEEs.** Composite fee for tuition, etc., £60 per session; bd. and lodging, £159 per session. Students live in coll. rooms or in licensed lodgings provided by the coll. and both are covered by the board and lodging fee. J.C.R. dues, £6 per session.

**STUDENT ATHLETIC FACILITIES.** The coll. provides playing-grounds for most field sports, and all sports clubs and soccs. are organized by the J.C.R.

**PUBLICATIONS.** Coll. *Memoirs* and *Syllabuses* (obtainable from principal).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Sir David J. James, £15,000 for Pantyfedwen Stipends Fund; estate of Rev. D. J. Scurry Jones, £10,000.

**DEATHS.** Prof. D. Dawson (1887-1923-40, prof. of hist. 1940-61).

### Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	196	—
Women . . .	—	—
Total . . .	196	—

**Distribution by Faculties.** Arts, 166; theol. (postgrad.), 6; theol. dipl., 16; sp. courses (theol.), 8. Total, 196.

*Included in the figures above are:—*

New admissions, 65 (arts, 58, theol., 7).  
Students from other countries, 16 (Country from which largest number came, Nigeria, 8).

**DIPLOMAS AWARDED (1960-61)** BA, 50; BD, 1; BA hon., 22.

# SCOTLAND

[Information compiled as at 14/9/62]

## UNIVERSITY OF ABERDEEN\*

Founded 1494

Postal Address: Aberdeen, Scotland

Telephone: Aberdeen University

Telephone (Secretary's Office) Aberdeen 24567

CHANCELLOR—The Rt Hon. T. JOHNSTON, CH, JP, Hon. LL.D. *Glas. & Abud.*

VICE-CHANCELLOR AND PRINCIPAL—Professor E. M. WRIGHT, BA *Leid.*, MA DPhil *Oxon.*

RECTOR—P. M. SCOTT, CBE, DSC, MA *Cambr.*

SECRETARY TO THE UNIVERSITY—W. S. ANSQU, MA *Oxon.*, LL.B. *Leid.*

LIBRARIAN, CLERK AND REGISTRAR OF GENERAL COUNCIL—W. D. SIMPSON, CBE, MA *DLitt.* Hon. LL.D., FSA

### TEACHING STAFF

[† = Part-Time]

#### Accounting

Finnie, A. S., MA, CA

Grant, J. P., B.L., CA

(CA Course) † Lectr.

(Law Course) † Lectr.

#### Biological Chemistry

Kernack, W. O., Hon. LL.D. *St. And.*, MA

DSc, FRS, FRIC MacLeod-Smith Prof.

Robertson, H. A., BSc PhD *Edu.*, FRIC

Sr. Lectr.

Porteous, J. W., BSc PhD *Leid.*

Sr. Lectr.

Grant, P. T., PhD *Leid.*, BSc

Lectr.

Samkin, J. L., BSc *Leid.*, PhD *Birm.*

Lectr.

Burke, D. C., BSc PhD *Birm.*

Lectr.

Fothergill, J. E., BSc PhD *Birm.*

Lectr.

Skinner, E. R., BSc *Birm.*, PhD *Leid.*

Sr. Res. Fellow

Bowman, I. B. R., BSc PhD

Sr. Res. Fellow

McDonald, Janet M., PhD *Edu.*, BSc

Sr. Res. Fellow

Clark, B., BSc PhD *Birm.*

Sr. Res. Fellow

Kelly, W. A., BSc *Wales*

Sr. Res. Fellow

Stevens, L., BSc *Oxon.*

Asst.

...

Asst.

#### Agriculture, see below

#### Anatomy

Lockhart, R. D., MD *Birm.*, ChM Regius Prof.

Hamilton, G. F., JP, BSc MB ChB Sr. Lectr.

Mackenzie, J., MD Sr. Lectr.

Dickson, A. D., MA *Cambr.*, MD *Belf.* Lectr.

Whyte, A. G. D., CBE, MA MB ChB, FRCSd Lectr.

Downie, R. W. M., MB ChB Lectr.

Kennedy, B., MB ChB Lectr.

McGregor, W. S. P., MB ChB Lectr.

Wattie, J. A., MB ChB Lectr.

Hunter, Isobel N. Radcl. Demr.

#### Astronomy

.....

Lectr.

#### Biology, see Nat. Hist.

#### Botany

Weatherley, P. E., MA DPhil *Oxon.* Regius Prof.

Faulks, P. J., MA *Cambr.* Sr. Lectr.

Gunningham, C. H., BA *Cambr.*, PhD Sr. Lectr.

Stirling, J., DSc *St. And.* Lectr.

Burns, D. W., BSc PhD *St. And.* Lectr.

Cusack, F., MSc PhD *Mans.* Lectr.

#### Bacteriology, see Medicine

#### Biblical Study, see also Divinity

Lille, Rev. W., BD *Glas.*, MA Hon. DD Lectr.

Ward, Elizabeth M., BA *Sheff.*, BLitt *Glas.* Asst.

\* Member of the Association of Universities of the British Commonwealth

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U.K.—SCOTLAND

Hadley, G., BSc PhD <i>Burm.</i>	Lectr.	<b>Education</b>	
Prutched, N. M., MA DPhil <i>Oxon.</i>	Lectr.		Prof.
	Lectr.	Nisbet, J. D., MA BEd <i>Edu.</i> , PhD,	
Bowling, D. J. F., BSc <i>Nott.</i> , PhD	Asst.	FBP&S	
Sommerville, Mrs. Abree H., MA BSc	Asst.	Gammie, A. J., MA EdB	Lectr.
Palmier, Anne, BSc PhD <i>Lond.</i>	Res. Asst.		Temp Lectr.
Johnson, R. C., BSc <i>Lond.</i>	Res. Asst.		

**Celtic**

Thomson, D. S., BA <i>Cambr.</i> , MA	Reader
MacKenzie, Annie M., MA PhD	Lectr.

**Chemical Pathology, see Medicine****Chemistry**

Bannett, G. M., DSc <i>Burm.</i> , BSc PhD	Prof.		
Strathdee, R. B., OBE, TD, PhD <i>Cambr.</i> , MA BSc, FRIC	Reader		
Thomson, R. H., DSc PhD <i>Lond.</i> , FRIC	Sr. Lectr.		
Moser, W., BSc <i>Lond.</i> , FRIC	Sr. Lectr.		
Mearns, P., MA PhD <i>Cambr.</i> , DSc	St. Lectr.		
Taylor, H. F. W., PhD DSc <i>Lond.</i>	Lectr.		
McKean, D. C., MA DPhil <i>Oxon.</i>	Lectr.		
Chalmers, R. A., BSc <i>Manc.</i> , PhD <i>Edu.</i>	Lectr.		
Hogg, D. R., BSc PhD <i>Lond.</i>	Lectr.		
Musgrave, O. C., BSc PhD <i>Lond.</i>	Lectr.		
Bryce, W. A. J., PhD <i>Edu.</i>	Lectr.		
Wilkie, K. C. B., BSc PhD <i>Edu.</i>	Lectr.		
Birkin, J. H., BSc PhD <i>Lond.</i>	Lectr.		
Glasser, F. P., BA <i>Conn.</i> , PhD <i>Penn.</i>	Lectr.		
Batt, L., BSc <i>Wales</i> , MSc PhD <i>Burm.</i>	Lectr.		
Gard, J. A., BSc <i>Durk.</i> , PhD	Res. Lectr.		
Glasser, Mrs. Lesley D., BA <i>Cambr.</i> , PhD	Sr. Res. Fellow		
Wells, J. W., MSc PhD <i>Q'ld.</i>	Sr. Res. Fellow		
Treanant, G., BSc PhD <i>Glas.</i>	Sr. Res. Fellow		
McCallum, J. R., BSc <i>Glas.</i>	Sr. Res. Fellow		
Smith, J., BSc PhD	Asst.		
Morris, Shirley J., BSc PhD <i>Lond.</i>	Asst.		
Hay, J. N., BSc PhD <i>Glas.</i>	Asst.		
Geddes, W. C., BSc	Asst.		
McQuillan, G. P., BSc <i>Lond.</i>	Asst.		
Kelly, Mrs. Sylvia, BSc <i>Manc.</i> , MSc <i>Lond.</i>	Res. Asst.		
Edmond, Mrs. Dorothy A., BSc	Analyst		
Gilmour, Helen S., BSc	Analyst		

**Chemistry, Biological, see Biol. Chem.****Child Health, see Medicine****Church History, see Divinity****Classics, see Greek, and Humanity****Comparative and Constitutional Law, see Law****Crop Physiology, see p. 1346****Divinity, see below****Economics, see Pol. Econ.****Electronic Computing**

Murray, A. M., BSc PhD	Lectr.
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**Engineering**

Allen, J., DSc <i>Manc.</i> , MICE	Jackson Prof
Grassie, J. C., BSc(Eng) <i>Glas.</i> , DSc	Reader
Hampson, H., MScTech <i>Manc.</i> , MIMechE	Reader
Wilkinson, E., BEng PhD <i>Lond.</i> , MIEE	Reader
Taylor, G. A., MA BSc(Eng) PhD, MICE	
Smith, R. G., BSc <i>Edu.</i> , PhD	Sr. Lectr.
Imrie, K. C., MSc <i>Manc.</i>	Lectr.
Fair, E. J., BSc(Eng) <i>Glas.</i>	Lectr.
Matthew, G. D., BSc(Eng) PhD	Lectr.
Ogston, W. M., MA <i>Oxon.</i> , MS <i>Calif.</i>	Lectr.
Earle, J. C., BSc(Eng) <i>Lond.</i>	Lectr.
Turton, J. S., MSc <i>Lond.</i>	Lectr.
Townson, J. M., BSc(Eng) <i>Lond.</i>	Lectr.
Hardie, A. M., MA BSc(Eng) PhD, MIEE	†Lectr.
Hendrie, R. A., BSc(Eng) <i>Lond.</i> , MIMechE	†Asst.
Corry, J. M., BSc(Eng) <i>Lond.</i>	†Asst.
Colmar, G. C., BSc(Eng) <i>Glas.</i>	†Asst.
Dorward, L. F., BSc(Eng) <i>Lond.</i>	†Asst.
Levy, N. M., BSc <i>Edin.</i>	†Asst.
.....	†Asst.

**English, see also Scottish Lang**

Duthie, G. L., MA PhD DLitt <i>Edin.</i> , FRSCan	Regius (Chalmers) Prof.
Lothian, J. M., MA <i>Glas.</i> & <i>Sark</i>	Reader
Evans, M., BA PhD <i>Cambr.</i>	Sr. Lectr.
Keir, W. A. S., BLitt <i>Oxon.</i> , MA	Lectr.
Thomson, Mrs. Patricia, PhD <i>Cambr.</i> , MA	Lectr.
Michie, J. A., BA <i>Oxon.</i> , MA DLitt	Lectr.
Blench, J. W., MA PhD <i>Cambr.</i>	Lectr.
Hargreaves, H., MA <i>Leu.</i>	Lectr.
Anderson, Mrs. Cecily, MA BLitt <i>Oxon.</i>	Lectr.
Bollinger, A. W., MA <i>Glas.</i>	Asst.
Lindsay, D. W. M., MA <i>Edin.</i> , PhD	Asst.
Graham, G. K., MA <i>Glas.</i>	Asst.
Sandison, A. G., MA	Asst.

**Fisheries and Oceanography, see p. 1346****Forestry**

Steven, H. M., CBE, MA <i>Oxon.</i> , BSc PhD <i>Edin.</i> (retires Sept. 1963)	Prof
McNeill, W. M., MBE, TD, MA DPhil <i>Oxon.</i> , MS <i>Yale</i>	Sr. Lectr.
Murray, J. S., BSc(For)	Sr. Lectr.
Davis, P. W., MC, BA DPhil <i>For Cambr.</i>	Lectr.
Crooke, M., BSc(For) <i>Edin.</i> , PhD	Lectr.

Low, A. J., MSc *New Br*, MS *N Y*,  
BSc(For) Asst.  
Rook, D. A., BSc(For) Asst.  
Grant, G. C., BSc(For), BSc(For)  
Asst. Investigator  
Oppenow, K., BSc(For) Asst. Investigator

# French

Diverres, A. H., MA *Wales*, L&L *Remus*,  
DU *Paris* Prof.  
Abouss, O. M., L&L *Paris*, PhD Sr. Lectr.  
Brown, A. W., MA PhD *Edin.* Lectr.  
Lawrence, T. E., MA DipEd PhD *Manc.* Lectr.  
Locke, S. I. J., MA PhD *Edin.* Lectr.  
Blakely, B., MA PhD *Manc.* Lectr.  
Graham, B. G., MA *Manc.* Asst.  
Bagley, Miss Cynthia, BA *Leeds* Asst.  
Abrams, Miss. *Remus*, L&L *Remus*  
(until May 1963) | Asst.  
Séguin, J. C. A., L&L *Remus*  
(until May 1963) † Asst.

# Geography

O'Dell, A. C., MSc *Leeds* Prof.  
Walton, K., MA *Edin.*, PhD Sr. Lectr.  
Mellor, R. B. H., BA *Manc.* Lectr.  
Coall, J. R., MA Lectr.  
Hamilton, P., MA *R'dg* Lectr.  
Small, A., MA Lectr.  
Clapperton, C. M., MA *Edin.* Asst.  
Barnett, Mrs. Muriel J. F., MA *Edin.* Cartographer

# Geology and Mineralogy

Phemister, T. C., DSc *Glas.*, PhD *Canb.*,  
MSc *Choc.*, DU *Remus* Kilgour Prof.  
Pringle, A. K., BSc *Glas.*, FGS Sr. Lectr.  
Fraser, W. E., MA BSc PhD, FGS Lectr.  
Tosher, P. E., BSc PhD Lectr.  
Munro, M., BSc PhD *St. And.* Lectr.  
Downie, G., BSc Lectr.  
Tait, E. A., BSc FGS Asst.  
Welsh, W., BSc *St. And.*, FGS

# German

Witte, W., MA *Leeds*, DrRorPol *Bres.*,  
PhD Prof.  
Barber, C. C., MA *Oxon.*, DPhil *Giessen* Sr. Lectr.  
Kenworthy, B. J., BA *Bres.*, PhD Lectr.  
Fowler, F. M., DPhil *Oxon.*, MA Lectr.  
Bird, Mrs. Louise J., BA *Sheff.* Asst.  
Kienzmann, Miss Ute (until May 1963) † Asst.

# Greek

Cameron, A., BA *Oxon.*, MA *Glas.* Regius Prof.  
Thomson, H., MA *Oxon.* Lectr.

# Greek Art and Archaeology

Ashmole, B., CBE, MC, MA *Blitt Oxon.*,  
FBA | Geddes-Harrower Prof.

# Hebrew, see Divinity, below

# History

Hargreaves, J. D., MA *Manc.* Burnett-Fletcher Prof.  
Humphreys, W. R., MA Se. Lectr.  
Henderson, J. M., TD, MA *Edin.*, FRHistS Sr. Lectr.  
Edwards, Kathleen, MA *Leeds*, PhD *Manc.*,  
FRHistS, FSA Sr. Lectr.  
Mills, Doreen J., MA *Glas.*, PhD *Leeds* Lectr.  
Mickelthwait, L. J., BA PhD *Leeds* Lectr.  
Adams, G., MA PhD *Col* Lectr.  
Cotton, Jennifer J., BA PhD *Leeds* Lectr.  
Kellin, J. G., PhD *Leeds*, MA Asst.

# History and Philosophy of Science

Wightman, W. P. D., MSc PhD *Leeds* Reader

# History, Economic, see Pol. Econ.

# Humanity

Watt, W. S., MA *Glas.* & *Oxon.* Regius Prof.  
Raven, E. J. P., MA *Canb.* Sr. Lectr.  
Reed, D. W., MA *Oxon.* Lectr.  
Edwards, G. P., MA *Canb.* Lectr.  
Pearce, T. E. V., MA *Oxon.* Asst.  
† Asst.

# Italian

Brown, P. M., BA *Oxon.* Lectr.  
Bullock, A., BA *Oxon.* Asst.  
Cochran, Mrs. Maria-Louisa (until May 1963) † Asst.

# Latin, see Humanity

# Law, see below

# Logic

Cross, R. C., MA *Glas.* & *Oxon.* Regius Prof.  
Bednarski, W., DPhil *Cranes* Sr. Lectr.  
Bird, G. H., MA *Oxon.* Lectr.  
Partridge, M. F., BSc *Cape T* Asst.

# Mathematics

Putter, H. S. A., MA DPhil *Oxon.* Prof.  
Patterson, E. M., BSc PhD *Leeds* Reader  
Panting, F. W., MA *Oxon.*, PhD Sr. Lectr.  
White, A. J., MSc PhD *Leeds* (on leave) Lectr.  
Nash-Williams, C. J. A., MA PhD *Canb.* Lectr.  
Robertson, M. M., BSc *Leeds*, MA PhD Lectr.  
Morrison, E. E., MA Lectr.  
Booth, P. A., MSc *Nott.* Lectr.  
Hosley, J., BSc *Leeds*, MSc *Leis* Lectr.  
Barnett, J. K. R., MA Lectr.  
Edwards, Candr. A. R., OBE, MA *St. And.*,  
BA *Canb.* Asst.

Wilson, D. M., MA MSs  
 Ponting, Mrs. Betty A., MA Oxon  
 Potter, Mrs. Anne C. E., MA Edin

#### Medicine, see below

#### Mental Health, see Medicine, below

#### Moral Philosophy

Wernham, A. G., BA Oxon, MA Regius Prof  
 Bednarski, W., DPhil *Cracow*  
 (also Logic) Sr. Lectr.  
 Duthie, G. D., MA BPhil Oxon, Lectr.  
 PhD Camb.  
 Fewie, I. M., MA *St. And.*, BA Camb. Lectr.  
 Partridge, M. F., BSc *Cape T.* (also Logic) Asst

#### Music

Barrett-Ayres, R., BMus *Edin* Lectr.  
 Dodd, R. H., MA BMus *Oxon.* Lectr.  
 Jacob, R., BMus *Wales* Asst.  
 McCloy, J., BMus PhD *Belf.* Asst.

#### Natural History

Wynne-Edwards, V. C., MA Oxon., FRSCan, Regius Prof  
 Neill, R. M., MC, MA *Glas.*, DSc Reader  
 Begg, C. M. M., PhD *Birm.*, MA BSc Lectr.  
 Short, J. R. T., BSc *W. Aust.*, DPhil  
*Oxon.*, DSc Lectr.  
 Orkin, P. A., BSc *McG.*, PhD Lectr.  
 Symmons, Saida, BSc *Leeds*, PhD Lectr.  
 Dunnet, G. M., BSc PhD Lectr.  
 Gould, D. T., BSc PhD *Edin.* Lectr.  
 Holliday, F. G. T., BSc *Steff.* Lectr.  
 de Kock, Mrs. Ludovika L., MA Oxon., PhD Res. Lectr.  
 Crombie, I. L., BSc *Glas.* Asst.  
 Heddie, D., MA Oxon. Asst.  
 Anderson, A., BSc Res. Asst.  
 Robinson, Ann E., BSc *Wales* Res. Asst.

#### Natural Philosophy

Jones, R. V., CB, CBE, MA DPhil Oxon., FIP Prof  
 Gaffeth, H. D., BA Camb. Reader  
 Serachan, C., PhD Camb., MA Camb. & *Aberd.* Sr. Lectr.  
 Buchanan, T. J., MA *Glas.*, PhD *Lond.*, FIP Sr. Lectr.  
 Richards, J. C. S., BSc PhD, FIP Sr. Lectr.  
 ... Se. Lectr.  
 ... Sr. Lectr.  
 Lindsay, D. D., MA Oxon., FIP Lectr.  
 Stevenson, R. W. H., BA Oxon., PhD  
 (on leave) Lectr.  
 Finlayson, D. M., BSc PhD *St. And.* Lectr.  
 Jones, D. A., BSc *Wales*, PhD Lectr.  
 Duncan, A., BSc *Edin* Lectr.  
 Hiseck, E. W., BSc PhD *Leeds* Lectr.  
 McComb, C. W., MA PhD Lectr.  
 Smith, T., BSc PhD *Leeds* Lectr.

Asst Davidson, S., BSc PhD Lectr.  
 Asst. Binnie, W. P., BSc PhD *Glas.* Lectr.  
 Moore, R. D., BSc *Durb.* Lectr.  
 Gill, T. P., MSc *Norb.* Lectr.  
 Mutch, H., MA Lectr.

Stewart, J. D., MA PhD Lectr.  
 Murray, A. M., BSc *Edin* Clin. Physicist  
 Buyers, W. J. L., BSc Asst  
 Floit, A. M., BSc Asst  
 Matthew, J. D., BSc Asst  
 McIntosh, J. A. R., BSc Res. Asst  
 Munson, Mary B. R., BSc Res. Asst  
 Gardner, A. Res. Asst  
 4 Lectureships vacant

#### Oceanography, see p. 1346

#### Philosophy, see Logic, and Moral Philos.

#### Physics, see Nat. Philos.

#### Physiology

Malcolm, J. L., BMedSc MB ChB N.Z. Regius Prof  
 Kosterlitz, H. W., MD *Beri.*, PhD DSc Reader  
 Matthews, B. F., BSc MB ChB *Leeds* Lectr.  
 Gelman, Mrs. Jean E., MD *St. And.* Lectr.  
 Goldsmith, M. W., BSc(Agr.) *Rdg.*, BSc *Lond.* Lectr.  
 Scott, Mary J., BSc PhD *Lond.* Lectr.  
 Hytton, F. E., MB BS *Syd.*, PhD Lectr.  
 German, G. A., MB ChB Sr. Res. Fellow  
 Wallis, D. J., MA PhD *Camb.* Sr. Res. Fellow  
 Robertson, Mrs. Florence M., BSc  
 PhD *Edin* Jr. Res. Fellow  
 Lees, G. M., MB ChB Jr. Res. Fellow  
 Pumphrey, Alison M., BSc *Lan.* Jr. Res. Fellow  
 Fimington, R. M., MB ChB *Birm.*, DPM Hon. Res. Fellow  
 Gundu Rao, H. V., MSc *Mys.* Hon. Res. Fellow

#### Physiology of Nutrition, see p. 1346

#### Political Economy

Hamilton, H., MA *D. Lett. Glas.* Jaffrey Prof.  
 Gray, M., MA Sr. Lectr.  
 Alexander, K. J. W., BSc(Econ) *Lond.* Lectr.  
 Houghton, R. W., MSc(Econ) *Lond.* Lectr.  
 Shaw, R., BPhil Oxon., MA Lectr.  
 Duxton, N. K., MA Asst.  
 Mackay, D. I., MA Asst.

#### Politics

Frankel, J., ML *Lewis*, LL.M. *W. Aust.*, PhD *Lond.* Lectr.  
 Finnegan, Margaret, BSc *Lond.* Lectr.  
 Ogley, R. C., BA Oxon. Lectr.

#### Psychology

Knight, A. R., BA *Syd.*, MA Camb., FBFs Anderson Prof.

Flaser, Elizabeth D., MA EdB PhD  
Lectr.  
Symons, J. R., BA PhD R'dg.  
Lectr.  
Burnell, A. B., BA R'dg.  
Lectr.  
Shepherd, J. W., BSc Lond  
Temp. Lectr.  
Knight, Miss. Margaret K., MA Camb  
†Lectr.  
Mitchell, R., BA Camb, BEEd Belf.  
St. Res. Fellow  
Taylor, Miss. Joan D., MA  
Jr. Res. Fellow  
Pollard, J. S., MA N.Z.  
Asst.

**Scottish Arts and Crafts**

Davidson, G.  
(retires Sept. 1963) St. Res. Fellow

**Scottish Language**

Munison, D. D., BA Camb., MA  
†Lectr.  
Colles, Joyce P., MA PhD  
Hon. Res. Fellow  
Todd, W. Annette, MA DipEd Glas.  
Hon. Res. Fellow

**Soil Science, see also p. 1346**

Tinsley, J., BSc PhD R'dg., FRIC  
Reader  
Coutts, J. R. H., MSc Lond., DSc S.A.  
Lectr.  
FIP  
Fitzpatrick, E. A., PhD  
Lectr.  
Parsons, J. W., BSc PhD R'dg.  
Lectr.  
Lennox, Alison M., BSc St. And.  
Jr. Res. Fellow

**Spanish**

May, T. E., MA Manc.  
St. Lectr.  
Dunn, F. N., MA Lond.  
Lectr.  
Albiana, G.  
†Asst.

**Statistics**

Finney, D. J., MA Camb. & Oxon.,  
ScD Camb., FRSt  
(on leave) Reader  
Bliss, W., MA Edin  
Lectr.  
Cosmick, R. M., BSc Lond., BA  
DipMathStat Camb., PhD  
Lectr.  
Kilpatrick, S. J., MSc PhD Belf.  
Lectr.  
Alpine, R. L. W., MA Glas  
Asst.

**Surgery, see Medicine, below**

**Swedish**

Ljunggren, N. G., FilmIng Lund  
Lectr.  
...  
Asst.

**Theology, see Divinity, below**

**Zoology, see Nat. Hist.**

**AGRICULTURE**

(see also N. of Scotland Coll. of  
Agric., below)

Raeburn, J. R., BSc(Agr) Edin., MS  
PhD Corn., MA Oxon.  
Strathcona-Fordyce Prof.  
Fraser, A. H. H., MD DSc  
Sr. Lectr.  
Dempster, D. G., BSc BSc(Agr)  
Sr. Lectr.

Smith, J. H., MSc Wales  
Sr. Lectr.  
...  
Lectr.  
Grant, J. C.  
†Lectr.  
Blair, R., BSc(Agr) Glas., PhD  
Sr. Res. Fellow  
Dent, J. B., BSc(Agr) R'dg.  
Jr. Res. Fellow  
Dustin, B. P.  
Hon. Res. Fellow  
Barlow, C., BSc Lond., MS Corn  
Asst.  
English, P. R., BSc(Agr)  
Asst.  
Bain, R., BSc(Agr) Glas.  
†Asst.  
Dodsworth, T. L., BSc(Agr) Leeds, PhD  
†Asst.  
Shuch, J. G., BSc(Agr) BSc(Eng)  
†Asst.

**DIVINITY**

**Biblical Criticism, see also Biblical Study,**  
above

Hunter, Rev. A. M., MA BD PhD Hon.  
DD Glas., DPhil Oxon.  
Prof.  
Alexander, Rev. J. N. S., MA BD Glas.,  
STM N.Y.  
Lectr.

**Christian Dogmatics**

Read, Rev. J. K. S., TD, MA BD  
Hon. DD Edin.  
Prof.

**Church History**

McEwen, Rev. J. S., MA BD Hon. DD Edin.  
Prof.

**Hebrew**

Gray, Rev. J., MA BD PhD Edin  
Prof.  
Johnstone, Rev. W., MA BD Glas.  
Lectr.

**Systematic Theology**

Graham, Rev. J. M., CBE, JP, MA Hon.  
DD Glas  
Prof.  
Cairns, Rev. D., MA Oxon., Hon.  
DD Edin  
†Lectr.

**LAW**

**Comparative Law (including Private  
International Law)**

Willock, I. D., MA LLB  
Sr. Lectr.

**Conveyancing**

MacRitchie, F., MA LLB  
Hugh McLennan Prof.  
Webster, A., MA LLB  
†Asst.  
...  
†Asst.

**Evidence and Procedure**

Hay, A. L., MA LLB  
†Lectr.

**Jurisprudence (including Roman Law)**

Stem, P. G., MA LLB Camb., PhD  
Prof.  
Willock, I. D., MA LLB  
(also Compar. Law) Sr. Lectr.  
Baker, C. D., BA BCL, Oxon.  
Lectr.



**Mercantile Law (including Administrative Law)**

Craig, J. T., MA LLB <i>Glas</i> , BSc(Econ) <i>Lond</i>	Sr Lectr.
Barton, R. C., MA LLB	†Asst.

**Public Law (including Constitutional Law; Public International Law)**

Young, J. N., BA <i>Cambr.</i>	Lectr.
Park, I. M. S., MA LLB	†Asst.

**Scots Law**

Ireland, R. D., MA <i>Oxon.</i> , LLB <i>Edin.</i>	Prof. Lectr.
Niven, A. F., MA LLB	†Lectr.
Milne, A., OBE, TD, BL	†Asst.
Ross, G., MA LLB	†Asst.

**MEDICINE**

(for subjects of first 2 years—Anst., etc., see above)

**Bacteriology**

Macdonald, A., MA MD	Prof.
McIntegart, M. G., MD <i>Lis.</i>	Sr Lectr.
Paton, A. M., BSc PhD <i>Edin.</i>	Sr Lectr.
Postlethwaite, R., BSc MD <i>Manr.</i>	Sr Lectr.
Menzies, R. F., MB ChB	Lectr.
Smylie, H. G., MD	Lectr.
Bell, T. M., BSc <i>Glas.</i>	Lectr.
Chalmers, Mrs. Grace C., MB ChB	Lectr.
Ross, F. W., MB ChB	Lectr.

**Chemical Pathology**

Fraser, S. C., MB ChB BSc PhD <i>Glas</i>	Prof.
Bowman, W., MA BSc MB ChB	Lectr.
Fraser, G. P., BSc PhD	Lectr.
Mitchell, P. E. G., MD	Lectr.
Walker, A. W., BSc	Asst.
....	Asst.
....	Asst.

**Child Health**

Craig, J., MB ChB, FRCPed	(retires Sept 1963) Prof.
Clark, N. S., BSc MD, MRCP	Sr Lectr.
Thom, Mrs. Hazel, BSc PhD	Lectr.
McKay, E., MB ChB, MRCPed	Lectr.

**Forensic Medicine (including Medical Ethics)**

Hendry, W. T., MB ChB	†Lectr.
McBain, D., MB ChB	†Asst.

**Materia Medica and Therapeutics**

Macgregor, A. G., BSc MD <i>Glas.</i> , MRCP, FRCPed, FRFPGlas	Regius Prof.
Crooks, J., MD, FRFPGlas, MRCP	Sr Lectr.
Roberts, M. B., MA DPhil <i>Oxon.</i> , MB BS <i>Lond</i>	Sr Lectr.
Forrester, T. M., BSc MB ChB	Lectr.
Williams, M. J., MB ChB, MRCP	Lectr.
Thorburn, Anne R., BSc <i>Edin.</i>	Res. Asst.

**Medicine**

Fullerton, H. W., MA MD, FRCP, FRCPed	Regius Prof.
Morgan, T. N., MD, FRCP	Hon. Reader
Palmer, K. N. V., MA MD <i>Cambr.</i> , MRCP	Sr Lectr.
MacLeod, M., MD, FRCPed	Sr Lectr.
Manson, Doris I., MB ChB, MRCPed	Lectr.
Dewson, Audrey A., MB ChB, MRCPed	Lectr.
Ogston, D., DTM&H <i>Edin.</i> , MA MB ChB PhD	Lectr.
Young, Doris P. G., BSc <i>St And</i>	Jr Res Fellow

**Mental Health**

Miller, W. M., MD <i>DupPsych Edin.</i> , FRPES, MRCPed	Crombie-Ross Prof.
Sinclair-Graham, A. H. C., MB ChB <i>DupPsych Edin.</i> , MD <i>Asst.</i> , DTMH	Sr Lectr.
Ley, MRCPed	Lectr.
Mackie, R. E., BA MB BChir <i>Cambr.</i> , MRCPed	Lectr.
Innes, G., MD DPH	Sr Res Fellow
Sharp, G. A., MA <i>Edin.</i>	Sr. Res. Fellow
Baldwin, J. A., MA <i>Oxon.</i> , MB ChB	Sr Res Fellow
Kear-Colwell, J. J., BSc <i>Durb.</i>	Asst.

**Midwifery and Gynaecology**

Baird, Sir Dagald, BSc MD DPH	
Hon. LLD <i>Glas.</i> , DSc <i>Manr.</i> , FRCOG	Regius Prof.
Thomson, A. M., BSc MB ChB <i>Glas.</i> , DPH <i>Lond</i>	Sr Lectr.
Turnbull, A. C., MB ChB	Sr Lectr.
Dennis, K. J., MB ChB, FRCPed	Lectr.
Shanks, J. A., MB ChB	Lectr.
Aitken-Swan, Jean	Sr. Res. Fellow

**Pathology**

Currie, A. R., BSc MB ChB, FRFPGlas, FRCPed	Regius Wilson Prof.
Stalker, A. L., TD, MD	Sr Lectr.
Bianwood, A. W., MD, FRCPed, MRCP	Sr Lectr.
....	Sr Lectr.
Carr, A. J., BSc MB ChB <i>Glas.</i>	Lectr.
Best, P. V., MB ChB <i>Bern.</i>	Lectr.
Scott, G. B., MB ChB	Lectr.
Posteous, I. B., MB BS <i>Durb.</i>	Lectr.
Ghose, T., MB BA DPhil <i>Cific.</i>	Georgina McRobert Res. Fellow

**Public Health, see Soc. Med.****Social Medicine**

Backett, E. M., BSc MB BS DPH <i>Lond.</i> , MRCP	Prof.
Richardson, I. M., JP, MD <i>Edin.</i> , DPH <i>Glas.</i> , PhD, FRCPed	Sr Lectr.
Weir, R. D., MD DPH	Lectr.
Mann, C. J. H., MB BS DPH <i>Lond.</i>	Lectr.

Kilpatrick, S. J., MSc PhD Belf.  
(also Stots) Lectr.  
MacQueen, I. A. G., MA MD DPH Edn † Lectr.  
Dang, A. T., MD DPH St. And., FRFPSClase,  
FRCPed † Lectr.  
Harley, Joyce, BSc Manc Hon. Res. Fellow  
Summer, Greta, BA Ovon. Res. Asst

**Surgery**

Smith, G., MBE, MD ChM St. And.,  
FRFPSClase, FRCSed, FACS Regius Prot  
Dudley, H. A. F., ChM Edn, FRCSed  
Clark, C. G., MD, FRCS, FRCSed Sr Lectr.  
Matheson, N. A., MB ChB, FRCS, † Lectr.  
FRCSed

**CLINICAL TEACHING STAFF †**

**Anaesthetics**

Rollison, W. N., MB ChB Bost.,  
FFARCS † Clin. Sr. Lectr.  
Bain, J. W. L., TD, MB ChB, FFARCS  
MacDonald, T. J. C., MD PhD, FFARCS  
Milne, Rosalind M. P., MB ChB,  
FFARCS † Clin. Lectr.  
Raffin, A. W., TD, MB ChB, FFARCS  
† Clin. Lectr.  
† Clin. Lectr.  
7 Clin. Tutors†

**Child Health**

Galloway, W. H., MB ChB Edn,  
FRCPed † Clin. Lectr.  
† Clin. Tutor†

**Dental Surgery**

Clark, P. B., BSc MB ChB BDS Bost.,  
FDSRCS † Clin. Lectr.

**Dermatology (Venereal Diseases)**

Anderson, T. E., MD, MRCPed  
† Clin. Sr. Lectr.  
† Clin. Lectr.  
2 Clin. Tutors† (Venereal Dis.)

**Diseases of Ear, Nose and Throat**

Collins, E. G., MB ChB, FRCSed  
† Clin. Sr. Lectr.  
MacNaughton, L. P. J., MB ChB,  
FRCSed † Clin. Lectr.  
Thomson, I. S. D., MB ChB, FRCSed  
† Clin. Lectr.  
Weir, C. D., MC, MB ChB, FRCSed  
† Clin. Lectr.  
† Clin. Tutor†

**Geriatric Medicine**

Wilson, L. A., MA MD, MRCP  
† Clin. Sr. Lectr.

Lawson, I. R., MD, MRCPed † Clin. Lectr.  
† Clin. Tutor†

**Infectious Diseases**

Chambers, W., MD Glas. † Clin. Lectr.

**Medicine**

Gordon, I., OBE, BSc MB ChB, FRCP,  
FRCPed † Clin. Sr. Lectr.  
Gauld, W. R., TD, MD, MRCP † Clin. Lectr.  
Needham, C. D., MD Lond., FRCP † Clin. Lectr.  
Shoat, D. S., MA MD PhD Camb.,  
MRCP † Clin. Lectr.  
Stowers, J. M., MA Camb., MD Harv.,  
MRCP † Clin. Lectr.  
† Clin. Tutors†

**Mental Health**

Stewart, R. A. Y., MB ChB, FRFPSClase,  
DFM Lond. † Clin. Sr. Lectr.  
Wylie, A. M., BSc MD Glas.,  
DipPsych Edn † Clin. Sr. Lectr.  
Faulkner, G. E., MB ChB Bost.,  
Henderson, J. G., DipPsych Edn, † Clin. Lectr.  
MB ChB  
Leckie, J., BSc MB ChB Glas.,  
DipPsych Edn. † Clin. Lectr.  
Lowit, J. M., MB ChB, MRCPed † Clin. Lectr.  
McCance, C., BA MB BChir Camb.,  
DFM Lond., MRCP † Clin. Lectr.  
† Clin. Tutors†

**Midwifery and Gynaecology**

Bernard, R. M., MB ChB † Clin. Lectr.  
Milne, G. F., MB ChB, MRCPed † Clin. Lectr.  
Wynn, J. E. B., BSc MB ChB Glas.,  
FRCOG † Clin. Lectr.  
† Clin. Lectr.

**Ophthalmology**

Cockburn, C., TD, MA MB ChB,  
FRCSed † Clin. Sr. Lectr.  
Bennett, Fiona M., MB ChB Edn,  
FRCSed † Clin. Lectr.  
Maline, W. S., MB ChB DO Ovon. † Clin. Lectr.  
† Clin. Tutors†

**Public Health, Bacteriology and**

**Infectious Diseases**

Brodie, J., MD DPH St. And. † Clin. Lectr.

**Radiology**

Lewick, D. P., CBE, TD, DMRD Camb.,  
MB ChB † Clin. Sr. Lectr.  
Gillanders, L. A., MB ChB Glas., FFR  
McKail, R. A., MB ChB DMRD Edn.  
Stewart, A. M., MB ChB DMRD Edn.  
† Clin. Lectr.

.....	†Clin. Lectr.	MacKenzie, I. G., MD, FRCSed	†Clin. Lectr.
3 Clin. Tutors]		Mavor, G. E., MD N.Y., MA ChM, FRCSed	†Clin. Lectr.
<b>Rheumatology</b>		8 Clin. Tutors]	
Bain, L. S., TD, MB ChB	†Clin. Lectr.		
1 Clin. Tutor]			
<b>Surgery</b>		<b>Tuberculosis</b>	
Davidson, S. G., MA MB ChB, FRCS, FRCSed	†Clin. Sr. Lectr.	Bell, D., MD Edin., DPH	†Clin. Sr. Lectr.
Gowar, F. J. S., MB BS, FRCS, FRCSed	†Clin. Sr. Lectr.	Fraser, R., MD DPH	†Clin. Lectr.
Logie, N. J., TD, MB ChB, FRCS, FRCSed	†Clin. Sr. Lectr.	1 Clin. Tutor]	
Machie, W., MB ChB, FRCSed	†Clin. Sr. Lectr.		
Nichols, W. M., MBE, TD, MSc McG., MB ChB, FRPSGlas	†Clin. Sr. Lectr.		
Philp, J. F., ChM, FRCSed	†Clin. Sr. Lectr.		
Rennie, A. M., MB ChB, FRCS, FRCSed	†Clin. Sr. Lectr.		
Adams, A., MB ChB, FRCSed	†Clin. Lectr.		
Brannen, P. L., MB ChB, FRCS, FRCSed	†Clin. Lectr.		
Carr, T. L., ChM, FRCS	†Clin. Lectr.		
Fraser, R. J. A., MB ChB, FRCSed	†Clin. Lectr.		
Hoy, G., MB ChB, FRCSed	†Clin. Lectr.		
Handry, N. G. C., MB ChB, FRCSed	†Clin. Lectr.		
Jones, P. F., MA MChir Camb., FRCS	†Clin. Lectr.		
Kyle, J., MCh BAO Belf., FRCS, FRCSI	†Clin. Lectr.		

## HONORARY RESEARCH LECTURERS

Cuthbertson, D. P., CBE, MD DSc	
Hon. LL.D. Glas. (Physiol. of Nutrition)	
Lucas, C. E., CMG, DSc Lond. (Fisheries & Oceanography)	
Stewart, A. B., CBE, MA BSc PhD, FRIC (Soil Sci.)	
Reay, G. A., CBE, PhD Camb., MA BSc, FRIC (Fish Technol.)	
Tincker, M. A. H., MA Camb., DSc Lond., FLS (Crop Physiol.)	

## GIFFORD LECTURER IN NATURAL THEOLOGY

## EXTRA-MURAL STUDIES

Walker, N. T., OBE, MA EdB PhD Glas., FBPAS	†Dir.
Wood, K. A., MA	Tutor-Organiser

## ADMINISTRATIVE AND OTHER STAFF

Asst. Sec. (Senatus): J. George, MA Camb  
Asst. Sec. & Treasurer: W. J. A. Nelson, MA, CA. Asst. Sec. (Edin): J. T. Kelman, Jr. Asst. Secs.: G. R. Anderson, BLitt Oxon., MA; D. W. Givven, MA LLB Edin.; A. G. Mitchell, MA St. And., LLB Edin.; A. N. Walker, Cashier: G. F. Bremner. Principals Secs.: Florence Mackenzie, MYO, BA Lond. Registry: J. Greig. Med. Officers (Students' Health Service): H. R. Worth, MB ChB Edin.; C. Murray, MB ChB; I. Gordon, OBE, BSc MB ChB,

FRCP, FRCPed (ret-), Chaplain: Rev. A. O. Robertson, STM N.Y., MA BD. Dir. of Phys. Educn. & Recreation: H. G. U'ren. Dir. of Phys. Educn. & Recreation for Women: Adele F. Mackinnon. Asst. Dir. of Phys. Educn. & Recreation: G. B. Allender. Adviser to Women Students: Mrs. Margaret E. Clarke, JP. Matron of Med. Hall of Residence: Vera J. S. Shepherd. Warden of Crombie Hall, Old Aberdeen: T. Lawrenson, MA DipEd PhD Manc. Radiation Protection Officer: R. D. Moore, BSc DPhil

## ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen (telegrams: Noson, Aberdeen; tel.: Aberdeen 27205). The coll., which was establd. in 1904, offers various courses in agric., certain of which are, by arrangement with the univ., held in Marischal Coll. of the Univ. of Aberdeen. All coll. of agric. students in attendance there are matriculated students of the univ.

Principal—M. A. H. Tincker, MA Camb., DSc Lond., FLS. Sec.: H. Munro, CA. Dir. of Studies: D. A. McKenzie, BSc(Agr) Glas.

Central Teaching Staff: ANIMAL HEALTH, J. C. Grant; ANIMAL HUSB., T. L. Dodsworth, BSc (Agr) PhD, 1903, A. D. McKelvie, DTA Trin., BSc, CHM., W. Moore, BSc(Agr) DSc; CROP HUSB., R. Bain, BSc(Agr); ENGINEG., G. Murray, BSc(Agr) Glas.; ZOOL., D. Robertson, BSc(Agr) PhD DSc; SCI. OF RURAL DOMESTIC ECON., Mrs. Jean S. Henderson, BSc Edin.; CHT. COURSE IN AGRO, H. Munro, MA; CRAINSTON FARM, , , , BACTERIOL., D. A. McKenzie, BSc(Agr) Glas.; EED-KEEPING, A. S. C. Deans; ECON. AND BOOK-KEEPING, A. D. Imper, MBE, MSc(Econ)

Wm., BSc(Agr) PhD; FARM BUILDINGS, D S Souter, HORT., J. S. Panton, MA BSc(Agr) Assisting in the above depts are as assts. Specialist advisory staff in agric., bacterial, agric econ., entomol., farm bldgs., grassland husb., mycol., animal husb., crop husb., poultry husb., vet investigation, bee-keeping res. County advisory staff: 2 regional dms., 2 sr. advisers in agric., 2 sr. advisers in dairying and poultry-keeping, 13 agric advisers, 13 asst agric advisers, 5crofting advisers, 9 advisers in dairying and poultry-keeping, 7 machinery instrs., 7 hort. advisers, 4 bee-keeping advisers.

Students (1961-62), dipl. courses, 87, cert course in agric, 42, Ceresstone Sch. of Rural Domestic Econ., 60. All students reading for non-univ. qualifs.

ROBERT GORDON'S TECHNICAL COLLEGE, Schoolhill, Aberdeen (tel.: Aberdeen 29384). The coll is one of the 'central institutions' in Scotland. The court of the univ and the governors of the coll. co-operate in the provision of day courses leading to the BSc(Eng) of the univ. and to the dipl. or associateship of the coll in engin. (civil, mech. and electr.). The courses in naval archit., mech. and electr. engin. are recognized under the schemes for the award of higher natl. dipls. Courses for marine engineers are provided in preparation for exams. of the several grades of certs. of competency issued by the Ministry of Transport, incl. that for extra-first class. Pt-time courses in the higher branches of civil, mech., electr. engin., naval archit., maths., phys., chem., papermaking and management studies also conducted in the coll.

Fees All fees for degree courses payable at the univ. (see p. 1349). Seesl. fees for coll. dipl. courses, chem., pharm., engin., £70; art, archit., £50.

## GENERAL INFORMATION

The Univ. of Aberdeen derives its origin and endowments from a sep., and for a long time indep., foundations. One of these was the univ. founded by William Elphinstone, Bishop of Aberdeen, under the authority of a papal bull obtained in 1494-95 at the instance of King James IV; within which univ. was afterwards founded, in 1505, the Coll. of St. Mary, subsequently called King's Coll. From this royal patronage, it was held to extend in a specially close relation to the sovereign, and is accordingly styled in acts of the Scots parliament—'our sovereign lord his college and university'. The other foundation was that of Marischal Coll. founded in 1595 by George Keith, fifth earl marischal, under a charter ratified by act of the Scots parliament. Both the above foundations were reconstituted in 1860 as 'The University of Aberdeen', which is incorporated under the Universities (Scotland) Act of 1889.

Staff.—Dir., A. C. West, JP, BSc St. And., PhD Lond., MIMechE ARCHIT., SCOTT SUTHERLAND SCH. OF, Hd. of Sch., E. F. Davies, BArch Ldn., FRIBA, FRIAS; 7 Asst. Teachers ART, GRAY'S SCH. OF, Hd. of Sch., I. Fleming, 2 Hds. of Depts, 11 Asst. Teachers. BUS. MANAGEMENT, S. P. Blair, MA; C. A. Clark, MA, A. Gordon, CHIM., Hd. of Sch., M. B. Watson, PhD R'gls, BSc, FRIC; Lectrs.: R. Buchan, BSc; G. A. Fraser, BSc; A. Hunter, BSc, N. G. MacMillan, BSc, W. N. Thomson, BSc; J. Towler, G. W. Youngson, BSc PhD, FRIC DOM. SCI., Principal of Coll., Mrs Mary H. Gilhe, BA Manc., 3 Hds. of Depts., 15 others. CIVIL ENGIN., W. D. Millar, BSc(Eng), ELECTR. ENGIN., Lectrs.: G. C. Colmar, BSc Glas., L. F. Dorward, BSc(Eng) Lond.; A. M. Hardie, MA BSc (Eng) PhD, MIEE; N. M. Levy, BSc; A. J. Lalburn, BSc(Eng), MECH. ENGIN., Lectrs.: J. M. Corry, BSc(Eng) Lond.; R. A. Hendrie, BSc(Eng) Lond., MIMechE; R. House, BSc (Eng), F. Thomson, BSc. MARINE ENGIN., Sr. Lectr., E. T. Morgan, BSc(Eng) Waler, Lectrs.: C. Hay, C. L. Robertson. MATHS. AND PHYS., Hd. of Sch., J. D. Stewart, MA PhD; Lectrs.: R. C. Angus, MA; S. N. Forrest, MA, P. Lees, MA MSc; J. S. Morgan, MA, W. R. Oliver, BSc Edin. NAVAL ARCHIT., A. E. Urquhart, NAVIGATION, Hd. of Sch., A. Simpson, BSc, Lectrs.: F. W. Gardner; G. P. Insh, D. F. McKay, W. McL. Peterson; J. M. Smith, S. Sutherland, BSc, G. B. Swan. PHARMACY, Hd. of Sch., D. Edwards, BSc PhD, FRIC, Lectrs.: P. Becker, BSc PhD; G. M. Bowen, BSc, J. S. Galloway, A. Macdonald, G. R. Page, BSc Lond., FRIC; Nancy M. Rose, MA BSc, R. F. Steel, BSc; W. H. Stewart, BSc(Pharm).

Students (1961-62), 2250 (full-time, 750, incl. 100 reading for univ. qualifs., pt-time, 1500).

Aberdeen (pop. 185,600) is a univ. town and holiday centre—principal industries: granite quarrying & working, inshore & deep-sea fishing, light & heavy engin., agric. and papermaking—situated on S.E. part of coast of Aberdeenshire in N.E. of Scotland

CONSTITUTION. The univ. court, which controls the finance, property and general admin. of the univ., was constituted a corporate body by the Universities (Scotland) Act, 1889. The members of the court are the rector (president), the principal, the lord provost of Aberdeen (all *ex officio*), an assessor appointed by the chancellor, one appointed by the rector, one appointed by the town council, 4 elected by the general council of the univ. and 4 elected by the senatus academicus. The senatus academicus is charged with the general supervision of teaching and discipline, and is composed of the principal and all profs. of the

univ. (*ex officio*) together with certain non-professional members, the no. of which is controlled by ordinance. The general council consists of the chancellor, the members of the univ. court, profs and all grads. of the univ., as well as readers and lectrs. of 1 yr's standing. The five facs (arts, sci., div., law and med.) consist of profs. assigned to them by ordinance, readers assigned by univ. court after consultation with senatus, other profs., readers and lectrs. apptd. for a certain period by senatus after consultation with or recommendation by the facs. The chancellor is appointed for life by the general council, the rector as apptd. for 3 yrs by the matriculated students of the univ., voting through procurators in four 'nations'; the vice-chancellor is appointed by the chancellor for the purpose, in the absence of the chancellor, of discharging his office in so far as regards the conferring of degrees.

INCOME (1956-61). Total income, £1,263,430 (govt. grants, 81 per cent.; fees, 8 per cent., endowments, 3 per cent., other sources, 8 per cent.)

FACULTIES AND DEANS. *Arts*, Prof. W. Witto (German); *div.*, Rev. Prof. J. S. McEwen (chauch. hist.); *law*, Prof. P. G. Stein (jurispr.); *med.*, Prof. Sir Dugald Baird (midwifery & gynaecol.); *sci.*, Prof. W. O. Kermack (biol. chem.).

UNIVERSITY PRINCING. The depts. accommodated within King's Coll., Old Aberdeen, belong to the facs of arts and div. The classes in the fac. of law, and the depts of psychol., geog. and educn., are accommodated within the reconstructed St. Mary's Church, Old Aberdeen. The bot. and for. depts., incl. the Crueskank bot. gardens, occupy adjacent bldgs. also in Old Aberdeen. On a sep. site is the thrm. bldg. (opened in 1952), in which are accommodated the depts. of chem., agric. biochem., soil sci. and the students' health service. In a new wing (opened in 1957) of this bldg. are the dept. of stats. (incl. an Agric. Res. Council statistical unit) and certain minor depts. in fac. of arts. On a site opposite the chem. and stats. bldgs. is Croebus hall of residence, a mixed residence accommodating 64 women students, 46 men students and 15 members of staff. In Marischal Coll. the depts. accommodated belong mainly to the facs of sci. and med. (1st-, 2nd- and 3rd-yr. subgs.). At Foresterhill joint hospo. site, in close proximity to Aberdeen Royal Inf., the Maternity Hosp. and the Royal Aberdeen Hosp. for Sick Children, are the univ. med. bldgs., in which are accommodated all med. classes, from the 4th yr. onwards, and a residence for 3th or final yr. med. students undergoing their 7 wks.' period of compulsory residence during midwifery trng.

The Library, founded in 1494, has over 360,000 vols. incl. more than 200 incunabula, some unique. It is especially rich in Celtic lit. and bks. bearing on the hist., topog. and antiquities of the Scottish highlands, and classical archaeol. It also contains the McEwan Jacobite collection, reputed to be the largest in the world outside

the British Museum. Annual budget: about £25,000.

MUSEUMS. Marischal Coll. anat. museum (human & compar.); also anthropol. museum containing ethnog. and archaeol. (mainly Egyptian) items, as well as local antiquities, large numismatic collection. Nat. hist. dept. museum, principal display being teaching collection of systematic zool.; study collections, esp. birds, mammals, insects. Foresterhill pathol. museum containing more than 1000 specimens.

RESEARCH. The regns. for higher degrees conferred by the univ. (*see below*) provide for admission of suitable candidates as res. students in all univ. depts. and, where appropriate, the univ. is well equipped with suitable lab. facilities. In addition, there are the following res. instns. in relation with the univ. and in which facilities are available for the prosecution of res. which may lead to the award of a degree of the Univ. of Aberdeen: (i) Rowett Inst. of Research in Animal Nutrition, Bucksburn, nr. Aberdeen (tel.: Bucksburn 7), with depts. of physiol., biochem., bacteriol. and pathol., and attached animal husbandry section for practical experiments in feeding, etc. The inst. is governed by a body first constituted in 1913 and which now consists of members representing the secretary of state for Scotland, the univ. court and the governors of the N. of Scotland Coll. of Agriculture, (ii) Macaulay Inst. for Soil Research, Craigiebuckler, Aberdeen (tel. Aberdeen 33223), (iii) Torry Research Station (fish technol.) of D.S.I.R. (tel.: Aberdeen 24258), and (iv) Marine Lab. (fisheries & oceanography) of Dept. of Agriculture and Fisheries for Scotland (tel. Aberdeen 25218).

TEACHING HOSPITALS. Hops. available for clinics: Infirmary, 615 beds; Woodend H., 402; Children's H., 188; Fever H., 239; Royal Mental H., 897; Kingsmill Mental H., 810; Maternity H., 128.

ADMISSION. *See* Appendix III. Persons wishing to attend classes as private (non-graduating) students may do so only with the approval of the appropriate departmental hd., and on payment of the necessary class and matric. fees.

First Degrees. Ordinary degrees: MA, BSc, BSc(Agr), BSc(Eng), BSc(Far)—3 yrs. (for BSc (Agr) one addl. yr.'s work on approved farm required). MB ChB—6 yrs. Honours MA degree—4 yrs. (following groups available: classics, mental philos., maths-lat. philos. (physiol.), Engl., French-German, hist., biol.-Engl., econ. sci., Latin-French, Greek-Engl., French-Engl., German-Engl., French-Spanish, German-Spanish, Latin-Spanish, Latin-Celtic, philos.-Engl., geog., Latin-Engl., Celtic-Engl., psychol.-econ. hist. & theory, psychol.-philos., Engl.-psychol., Spanish-Engl., music, psychol., hist.-pol., econ.-pol., philos.-pol., Latin-Italian, French-Italian, Spanish-Italian, Latin-biblical studies, Engl.-biblical studies, 'hebraica', nat. philos., German-Swedish, Engl.-Swedish, Italian-

Engl., jurisp.-philos., jurisp.-pol., French, German, Celtic studies. Honours BSc degree—4 yrs (following subjs available: maths., nat. philos. (physics), chem., bot., zool., geol., geog., anat., physiol., biochem., psychology). Hons BSc (Agr.), BSc(For), BSc(Eng) degrees—4 yrs. (for BSc(Agr.) one additional yr's work on approved farm required)

For MA ord., student must take 7 courses (chosen from 68 available) spread over at least 3 subjs., i.e. 3 subjs. must be taken at ord level and 2 of them also at advanced level. There are restrictions on the choice of subjs.

For MA hons., student must take 7 courses (chosen from 68 available) of which at least 4 must be in the hons. group selected (for list, see above). Degree exam. passes needed in (a) the hons. group and (b) 2 subjs. outside the hons. group. Normally students take the ord. courses of their hons. group in 1st yr., advanced courses in same subjs. in 2nd yr., and hons. courses in 3rd & 4th yrs. The courses in the 2 subjs. outside the hons. group are also taken during 1st & 2nd yrs.

For BSc ord., student must take 4 subjs. (chosen from 12 available) at course I level and, in addition, either 3 of these subjs. to course II level or one of these subjs. to course II level and another to course III level.

For BSc hons., student must take 4 subjs. at course I level, the hons. subj. selected (for list, see above) and another subj. to course II level, and the hons. subj. for a further yr.

Note.—It is intended that, from Oct 1963, revised ordinances and regns. will come into force for ord. and hons. degrees in pure sci., for and engin., from Oct. 1964, similarly revised ordinances and regns. should come into force for BSc(Agr.).

HIGHER DEGREES. EdB—2 yrs.' course after 1st degree in arts or sci.; BD—3 yrs.' course after 1st degree in arts; LLLB—2 yrs.' course after 1st degree in arts (if suitable subjs. incl. in arts curriculum). Research degrees: PhD—3 yrs. full-time or (in sp. cases) 4 yrs. pt.-time; MSc—at least 1 yr.; DSc, DLit—candidates admitted after 5 yrs. from 1st degree (2 yrs.' sci. may be required); LL.D.—candidates admitted after 7 yrs. from 1st degree; MD, ChM—candidates admitted over age of 24 yrs. after lapse of 1 yr. from 1st degree.

HONORARY DEGREES. DD, LL.D., DLit.

The Univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Postgrad.: educn.—1 yr.; statistics—2 yrs., DPH—1 yr. full-time or 15 mos. full/pt.-time or 18 mos. pt.-time.

STUDY LEAVE. No regular practice, but applies by members of staff for leave of absence dealt with by Univ. court on their individual merits.

FEES. Annual fees (incl. matric. and exam. fees): MA, EdB, BD, LLLB, dipl. in stats., £60;

BSc (pure, agric., for., engin.), MB ChB, DPH, £75 Res. supervision fee, £60 p.a., lab. fee (where applicable), £15 p.a.

Composition fee, £6 p.a.

ACADEMIC YEAR. Three terms, each of 10 wks: 1 winter (Oct–Dec), spring (Jan.–Mar.) and summer (April–June).

ADULT EDUCATION AND VACATION COURSES. Adult educn. classes under the Adult Education (Scotland) Regns., 1952, are conducted in Marischal Coll. in conjunction with the educn. cttee of Aberdeen town council. Classes under the regns. for the Kilgour (mechanics' institution) lectures are conducted under the same auspices. The Univ. dept. of extra-mural studies (see also 'Teaching Staff', above) conducts certain adult educn. courses in the larger burghs in the Univ. area. No vacation courses are held within the Univ.

ENTRANCE EXAMINATIONS AND SCHOLARSHIPS. At annual entrance bursary competition, bursaries and schol. valued up to £70 p.a. are available for award in the fics. of arts, sci. and med.

POSTGRADUATE Awaras open to grads. of other univs. see p. 910.

APPOINTMENTS. There is no appts. cttee., but advice is given by a member of the admin. staff as to preparation for entrance to various govt. services and other appts. All communications to be addressed to: The Secretary to the University.

ALUMNI ASSOCIATION. All grads. and alumni of the Univ. are eligible for membership of the Aberdeen Univ. alumni assocn. Particulars from the sec., L. J. Smith, MA LL.B., 9 Bon Accord Sq., Aberdeen (tel.: Aberdeen 29482).

RESIDENCE. List of lodgings published by co-operation publicity service. Lodgings cost from £3 upwards per wk. There is a hall of residence for med. students in which residence (fee at present £35) is compulsory for 7 wks during the 5th or final yr. of study. Vacancies for voluntary residents from any fee, usually available at a cost of £5 per week. Crombie hall of residence (46 men, 64 women) in Old Aberdeen open for all fics. Fees covering all 3 terms, £150, incl. 1c common room sub. and all meals other than lunch on weekdays.

UNIVERSITY MILITARY AND AIR FORCE FORMATIONS. There is a contingent of the officers' trg. corps (T.A.) attached to the Univ. (C.O.: Lt.-Col. J. Reid, TD, MA), it has infantry, engin., med. and signals sections with a perm. staff of officer and other rank instrs. A sub-unit of the W.R.A.C. is attached. There is also a squadron of the Royal Auxiliary Air Force attached to the Univ. (C.O.: Sign Ldr T. Benson) H.Q. of O.T.C. is at Powis Gardens, Old Aberdeen (tel.: Aberdeen 43861); H.Q. of an squadron is at Fairfield House, Wainhill Rd., Aberdeen (tel.: Aberdeen 22605). Membership of all formations is voluntary, and is confined to matriculated students of the Univ.

STUDENT HEALTH SERVICE. There are med. officers for the compulsory exam. of all med.

students, and students in all felds must submit to mass miniature radiography annually.

**PHYSICAL WELFARE OF STUDENTS.** There is a dir. of phys. educn., with a woman dir. for female students. See 'Admin. and Other Staff', above.

**ATHLETIC ACTIVITIES.** There are playing-fields of approx. 22 acres at King's Coll. On matric., all students become members of Aberdeen Univ. athletic assocn., and membership of affiliated clubs (football, cricket, swimming, etc.) is open to all matriculated students on payment of a sub. At King's Coll. there is a modern, well-equipped swimming-pool, and squash courts, etc.

**UNIVERSITY UNION.** All students on matric.

become members of the univ. union without further fee. The union has a large hall (with stage and full stage equipment), billiards room, music room, reading-rooms and spray baths, as well as snack bars and dining-rooms.

**PUBLICATIONS.** *Calendar* (Oct.), 22s. 6d. (post free inland); fac. prospectuses, 1s. 6d. each; *Univ. Review*, 16s. p.a. (3 issues); *Univ. Studies* series, *Students' Handbook and Diary* (Nov.), 3s. 6d.; *Alma Mater* (organ of S.R.C.).

**UNIVERSITY PRESS.** Aberdeen University Press, Ltd., 6 Upperkirkgate, Aberdeen (managing dir.: H. M. R. Watt, MA).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Carnegie Trust, Edinburgh, £27,16s. for various purposes; trustees of W. S. McGillevay, W. Australia, £12,88s. for gen. purposes.

**MAJOR BUILDING DEVELOPMENTS.** Blugs completed: animal house serving all clin. need, depts at Foresterhill and smaller animal house serving anat. dept at Marischal Coll.

**NEW DEPARTMENTS AND CHAIRS.** Geddes-Harrower chair of Greek art & archaeol.; chair of educn.

**RETIREMENTS.** Rev. Prof. A. C. Kennedy (Hebrew & semitic langs.); Prof. W. C. Wilson (surg.); Prof. J. S. Young (pathol.); Dr. J. E. Humphries (chem.); Anne Macdonald (pol. econ.).

**RESIGNATIONS.** Dr W. L. Armstrong (anat.); Dr A. Coull (engn.); Dr A. I. G. Davidson (anat.); Dr N. G. Fraser (mental health); Dr R. L. Gordon (anat.); Dr J. R. Greig (anat.); Dr P. S. Haffenden (hist.); Dr G. A. McDonald (med.); Dr I. C. MacGibbon (pub. law); Dr G. M. M. Robb (biol. chem.); Dr G. S. Robertson (anat.); Prof. G. O. Snyles (hist.); Dr W. R. C. Turner (anat.).

**DEATHS.** Sir Thomas M. Taylor (principal of univ.); Dr A. H. S. Holbourn (sr. lectr. in nat. philos.).

**HONORARY DEGREES.** DD—Rev. G. G. Cameron, minister of Glenburn, Paisley; K. H. Rengstorff, ord. prof. of new testament theol. & exegesis, Westfälische-Wilhelm Univ., Münster; Rev. E. G. Rupp, prof. of eccles. hist., Mainz.

LLD—Janet B. Adam Smith (Mrs. Michael Roberts), author and journalist, lit. ed. *New Statesman* and *Nation*, Sir Alister C. Hardy, fellow of Merton Coll. and Linacre prof. of sociol. & compar. anat., Oxford, R. Kloster, dir. Vestlandske Kunstinstitutt, Bergen; I. D. McIntosh, headmaster, Pettes Coll., Edin.; W. Taylor, under-sec. ministry of labour, 1946–52, chancellor's assessor to Aberdeen univ. court.

## Statistics

### STUDENT NUMBERS, 1961–62

	Full-Time	Part-Time
Men	1505	206
Women	697	38
Total	2202	244

Distribution by Faculties. Arts, 1027; div., 24; law, 61; med., 449; sci., 891. Total, 2445.

Included in the figures above are —

Postgraduate students, 230

New admissions, 649

Students from other countries, 231. (Countries from which largest numbers came: Norway, 23; Nigeria, 19; Ghana, 14; Kenya, 14).

**DEGREES AWARDED (1960–61).** Arts: EdB, 3; MA, 188; DLitt, 1. Div.: BD, 2. Law: BL, 2; LL.B., 14. Med.: MB ChB, 64; MD, 5. Sci.: BSc(Agr), 10; BSc(Eng), 29; BSc(Far), 18; BSc(pure), 94; DSc, 1; PhD, 22; MSc, 5. Total number of first degrees awarded, 495.

**DIPLOMAS AWARDED (1960–61).** DipEd, 19; DipStat, 1; DPH, 3.

## UNIVERSITY OF EDINBURGH\*

Founded 1583

Postal Address: Edinburgh, Scotland

Cables and Telegrams: University, Edinburgh

Telephone: Newington 1011

CHANCELLOR—H.R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon. LL.D. *Wales & Edin.*, Hon. DSc *Delhi*, FRSVICE-CHANCELLOR AND PRINCIPAL—SIR EDWARD V. APPLETON, GBE, KCB, MA Hon. ScD *Cambr.*, Hon. DSc *Oxon.*, *Brunels*, *Lond.*, *Syd.*, *Staff.* & *Laval*, Hon. LL.D. *Aberd.*, *Birm.*, *St. And.*, *Land.*, *Glas.*, *Liv.* & *Dal.*, Hon. LittD *Cambr.*, Hon. DUMour, DSc, FRCSEd, FRSRECTOR—J. GRIMOND, TD, BA *Oxon.*, LL.D.SECRETARY TO THE UNIVERSITY—C. H. STEWART, OBE, JP, MA LL.B. *Glas.*, CA

SECRETARY TO THE GENERAL COUNCIL—.....

REGISTERAR TO THE GENERAL COUNCIL—C. H. STEWART, OBE, JP, MA LL.B. *Glas.*, CALIBRARIAN—E. R. S. FIDDO, MA *Oxon.*

ACCOUNTANT—R. O. CUBLE, CA

## TEACHING STAFF

[+Part-Time]

## Accounting and Business Method

Anderson, D. S., MA, CA

Taylor, J., MA, CA

Ritchie, J. M., CA

Kwiecinski, T. Z., BCom, CA

Small, J. R., BSc(Econ)

Prof

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

## Anthropology

Liddle, K. L., MA *Cambr.*, PhD *Lond.*

(Soc. A.) Reader

Banton, M. P., BSc *Lond.*, PhD

Reader

Liddlejohn, J., PhD

Lectr.

Collins, S. F., MA PhD

Lectr.

3 Assts

## Agriculture, see below

## Arabic

Watt, W. M., MA *Oxon.* & *Edin.*,BLitt *Oxon.*, PhD

Reader

Cochran, P. J. E., BA *Amer.*, PhD

Lectr.

## Anatomy

Rommens, G. J., BA PhD *Cambr.*, MB ChB,

FRCSEd

Prof.

Inkster, R. G., MA *Dub.*, MD

Reader

Mull, A. R., MD

Reader

Kucynski, K., MB ChB, FRCS

Sr Lectr.

Campbell, Norm., MB ChB

Lectr.

Craig, R. C., MB ChB, FRCSEd

Lectr.

Barnett, Helen S., MB ChB

Lectr.

King, J. B., MD DR, FRCP, FFR

Lectr.

Kerr, A. W. S., MB ChB

Lectr.

Paterson, J. K., LDS

Lectr.

Adams, D., MDS BSc

Lectr.

Peters, A., BSc PhD *Brit.*

Lectr.

Chenman, E. M., BSc MB BS *Madr.*

Lectr.

8 Assts (Appl. A.)

## Archaeology, Classical

Snodgrass, A. M., BA *Oxon.*

Lectr.

## Archaeology, Prehistoric

Piggott, S., BLitt *Oxon.*, Hon. DLittHum *Col.*,

FBA

Abercromby Prof.

Thomas, A. C., MA *Oxon.*, FSA

Lectr.

## Architecture

Matthew, Sir Robert, CBE, MA

Prof.

Stevenson, F. R.

Sr. Lectr.

Clark, H. F.

Sr. Lectr.

Johnson-Marshall, P. E.

Sr. Lectr.

Forward, A. C. M., BA *Manc.*

Lectr.

Savage, P. D., BArch

Lectr.

## Anatomy, Comparative (Veterinary)

Graham, T., FRCVS

Reader

\* Member of the Association of Universities of the British Commonwealth



- Torrance, J. S. † Lectr.  
 Rodley, T., BSc Lond. † Lectr.  
 Young, R. C. † Lectr.  
 Morris, Mrs Eleanor K. S., BA Arch Hous. † Lectr.
- Art (Fine Art)**  
 Rice, D. T., MBE, MA BSc DLitt Oxon. Wotton Gaudon Prof.  
 Robertson, G. H., MA Oxon. Sr. Lectr.  
 1 Asst.
- Astronomy**  
 Brück, H. A., DPhil Munich, DPhil Habil Berl., PhD Camb. Regius Prof.  
 Smyth, M. J., MA PhD Lectr.  
 Brück, Mrs Mary T., MSc PhD Lectr.
- Banking**  
 Lockie, J. H., BL Glas. Bruce Lectr.
- Biblical Studies**  
 Stalker, Rev. D. M. G., MA BD Sr. Lectr.
- Bibliography**  
 Ffrost, E. R. S., MC, MA Oxon. Lectr.
- Biochemistry**  
 Fisher, R. B., MA BSc DPhil Oxon. Prof.  
 Ramsay, W. N. M., BSc PhD Sc. Lectr.  
 Outaway, J. H., BSc PhD Lond. Sr. Lectr.  
 Jocelyn, P. C., MA DPhil Oxon. Sr. Lectr.  
 Boyd, G. S., PhD Sr. Lectr.  
 Minns, J. W., BSc PhD Lectr.  
 Cruft, H. J., PhD Lectr.  
 Ryle, A., BA PhD Camb. Lectr.  
 Plinkett, L. G., BA Camb., PhD Lond. Lectr.  
 6 Assts.
- Biology, see Nat. Hist.**
- Biophysics**  
 Dainty, J., MA DSc Reader  
 Williams, E. J., BSc PhD Sr. Lectr.  
 Croghan, P. C., MA Camb., PhD Lectr.  
 Scott, R., BSc PhD Lectr.  
 Malcolm, B. R., BSc PhD Lectr.  
 Johnston, R. J., MSc PhD Lectr.  
 Hogg, J., BSc Lectr.
- Botany, see also For.**  
 Brown, R., PhD DSc Lond., FRS Regius Prof.  
 Nelson, A., BSc Glas., PhD DSc (Plant Physiol.) Reader  
 Lyall, C. A., BSc Lectr.  
 Davis, P. H., BSc PhD Lectr.  
 Dodds, J. G., BSc PhD Lectr.  
 Brook, A. J., DSc PhD, FLS Lectr.  
 Heyes, J. K., MSc N.Z., PhD Camb. Lectr.  
 Blyth, W., BSc PhD (Mycol. & Botanol.) Lectr.  
 Yeoman, M. M., MSc Durk., PhD Lectr.  
 Dale, J. E., BSc PhD Lectr.
- † Lectr. Tulett, A. J., BSc Lond. Lectr.  
 3 Assts.
- Celtic Languages, etc.**  
 Jackson, K. H., MA LittD Camb., Hon. DLittCelt N.U.I., AM Harw., FBA Prof.  
 Matheson, Rev. W., MA Lectr.
- Chemistry, see also Technol., Chem**  
 Costroll, T. L., DSc Prof.  
 Ratchoe, M., DSc PhD, FRIC Reader  
 Campbell, N., OBE, DSc PhD Reader  
 Beavers, C. A., DSc Lit., FIP Reader  
 Bolam, T. R., MSc Brit., DSc Sr. Lectr.  
 Aspinall, G. O., DSc PhD, FRIC Sr. Lectr.  
 Taylor, D., DSc PhD Sr. Lectr.  
 Percival, Mrs. Elizabeth, BSc Birm., PhD DSc Lectr.  
 Minners, D. J., BA PhD DSc, FRIC Lectr.  
 Greenwood, C. T., PhD DSc, FRIC Lectr.  
 Knox, J. H., BSc PhD Lectr.  
 Anderson, D. M. W., BSc PhD, FRIC Lectr.  
 Schwarz, J. C. P., MA BSc PhD Lectr.  
 Lenver, D., BSc PhD Lectr.  
 Doyle, W. F., BSc PhD Lectr.  
 Rees, D. A., BSc PhD Lectr.  
 Read, A. W., BSc Lond. Lectr.  
 Harding, Mrs. Marjorie M., MA DPhil Oxon. Lectr.  
 6 Assts.
- Chemistry, Organic**  
 Huat, E. L., CHE, MA BSc PhD St. And., DSc Birm., MSc Manc., Hon. LL.D. St. And. & Aberd., Hon. ScD Duk., FRIC, FRS Prof.
- Chemistry, Technical, see Technol., Chem**
- Classics, see Greek and Latin**
- Commerce, Organization of Industry and, see also Accts. and Bus. Method, Banking**  
 Hunt, N. C., BCom Lond., PhD Prof.  
 Behrend, Hilde, BSc(Econ) Lond., PhD Lectr.  
 Savage, C. I., MCom Birm. Lectr.  
 Mackenzie, R. M., MC, MA Lectr.  
 Marrian, Jacqueline, BCom Lectr.  
 1 Asst.
- Cytology, see Nat. Hist.**
- Divinity, see also New Coll., p. 1362**  
 McIntyre, J., MA BD DLitt, Hon. DD Glas. Prof.  
 Barlough, Very Rev. J. H. S., BLitt Oxon., Hon. DD Aberd., MA BD (Eccles. Hist.) Prof.  
 ..... (Bibl. Crit. & Bibl. Antiq.) Prof.  
 Torrance, Rev. T. F., MBE, Hon. DD MeG. & Presbyterians Coll. (P.Q.), DTheol Biele & Geneva, MA BD (Christian Dogmatics) Prof.

Stewart, Rev. J. S., MA Hon DD St And.  
(N.T. Lang & Lit.) Prof.  
Tindal, Rev W S., OBE, MA Glas, DD  
(Christian Ethics & Practical Theol.) Prof.

Anderson, Rev G W., MA DD  
(O T Lit & Theol.) Prof.

Duthie, Rev C. S., BD Aberd & Edin.,  
MA Aberd. Lectr.

Barbour, Rev R A S., MC, MA Oron,  
BD St And., STM Yale Sr. Lectr.

Moss, Rev I., MA BD PhD Lectr.

Torrance, Rev J. B., MA PhD Lectr.

Gry, Rev J., MA BD Lectr.

Chapman, Rev A. C., MA BD BLitt Oron. Lectr.

Dunlop, Rev A. I., TD, MA BD Lectr.

Gibson, Rev J. C. L., MA BD DPhil Oron. Lectr.

1 Asst

### Economics

Youngson, A. J., MA DLitt Prof.

Stewart, I. G., MA St And. & Camb. Reader

Smith, I., MA Sr Lectr.

Wright, L. C., BA Wales, PhD Sr Lectr.

Houghton, Hazel, MA Lectr.

Johnston, T. L., MA PhD Lectr.

Winch, D. N., BSc(Econ) PhD Lond. Lectr.

Ord, H. W., MA Camb Lectr.

Thompson, A. E., MA PhD Lectr.

2 Assts

### Education

Pilley, J. G., MA Oron. Prof.

Hamilton, R., MA St Lectr.

Pillans, A. E. G., BSc Burs Lectr.

Adams, H. M., MA Lectr.

Withington, D., MA BEd Lectr.

Sutherland, J., MA BEd PhD Hon Lectr.

Inglis, W. B., OBE, MA EdB Glas., PhD Hon. Lectr.

Fulton, A. S., MA BEd PhD Hon. Lectr.

Renshaw, T., BSc BEd PhD Hon. Lectr.

Maxwell, J., MA BEd Hon. Lectr.

4 Assts.

### Engineering, Civil and Mechanical

Arnold, R. N., DSc Glas, PhD DEng Shipf.,  
MICE Regius Prof.

Patterson, C., MIMechE Sr. Lectr.

Robson, J. D., MA Oron, PhD Sr. Lectr.

Patten, T. D., BSc PhD Sr. Lectr.

Dodgeon, W., BSc Sr. Lectr.

Hunter, W. B., BSc Lectr.

Davies, S. R., BSc PhD Lectr.

Barr, A. D., BSc PhD Lectr.

Christie, I. F., BSc Lectr.

Hess, T. C., PhD Lectr.

Goudie, G. O., BSc Lectr.

Sundranyugam, S., BSc PhD Lond. Lectr.

Lennett, J. A., BA Oron. Lectr.

3 Assts.

2 X 2

### Engineering, Electrical

Parry, W. E. J., BSc Lond., MIEE Prof.

Melzer, B., BSc PhD, FIP Reader

Melvin, H. M., MA Oron, PhD Lectr.

Oldfield, J. V., BSc PhD Lond. Lectr.

Shepherd, J., BSc Lectr.

Roberts, G. J., BSc PhD Lectr.

Jacobs, O. L. R., BSc Lectr.

Muggleton, L. M., BSc PhD Cape T. Lectr.

### English Language and General Linguistics

McIntosh, A., MA Oron, AM Harv. Prof.

Halliday, M. A. K., MA PhD Camb.,  
BA Lond. Reader

Schram, O. K., MA Wales, PhD Camb. Sr. Lectr.

Pride, J. B., MA Lectr.

Sinclair, J. M., MA Lectr.

Palsson, H., BA Dub. (Icelandic) Lectr.

Ellis, J. O., BA PhD Lectr.

Thorne, J. P., BA Lectr.

Ure, Joan, MA Lectr.

1 Asst

### English Literature and Rhetoric

Burt, J. E., MA BLitt Oron., FBA Regius Prof.

Maynard, Winifred A., BA Dub.,  
BLitt Oron. Lectr.

MacQueen, J., MA Lectr.

Rutherford, A., MA BLitt Oron. Lectr.

Kincaid-Weir, M., BA Cape T.,  
MA Oron. Lectr.

Cornell, C. D., MA BLitt Oron. Lectr.

Gregor, I. C. S., BA Dub., PhD Lectr.

Williamson, C. F., MA BLitt Oron. Lectr.

Rodger, A., MA Edin. Lectr.

Coulson, T. H., BA Oron. Lectr.

2 Assts

### Entomology, see Agric., below

### Forestry, see Agric., below

### French and Romance Philology

McMillan, D., BA PhD Lond. Prof.

Legge, M., Dominica, MA BLitt Oron. Reader

Clark, J. G., DUPenn, BA Wales Lectr.

Barnwell, H. T., DUSfonteller, MA Burs. Lectr.

Holden, A. J., BA PhD Lond. Lectr.

Pres, A. R., DUBardonn, BA Dub. Lectr.

Kushin, Joanna, DUPenn, MA Camb. Lectr.

3 Assts

### French Literature

Steele, A. J., MA Prof.

### Geography

Watson, J. W., PhD Tor., MA, FRSCan Prof.

Robertson, C. J., PhD Lond., MA BSc Sr. Lectr.

Geddes, A., DStL Montpellier, PhD Sr. Lectr.

Matgrege, D. R., MA Aberd. Sr. Lectr.

Macpherson, A., MA

Sassons, J. B., MA PhD Camb.	Lectr.	Best, F. A., PhD Camb	Lectr.
Elliot, N. R., BA PhD Durh.	Lectr.	Kochan, L., BA Camb, PhD Lond.	Lectr.
Jones, R., MA PhD Wales	Lectr.	Fyle, C. H., MA	Lectr.
McMaster, D. N., MA Oxon., PhD Lond.	Lectr.	Fowler, K. A., BA Leeds, PhD	Lectr.
Kirby, R. P., MSc Lond	Lectr.	Harding, A., MA BLitt Oxon	Lectr.
Klawe, J. J., MA Glas., DipCom Grenoble	Lectr.	Oakley, S. P., MA Oxon., PhD	Lectr.
		6 Assts	

3 Assts.

**Geology**

Stewart, F. H., BSc Aberd., PhD Camb.	Regius Prof.	Cadoux, T. J., MA DPhil Oxon	St. Lectr
		Lewis, R. G., MA Oxon.	Lectr.

Craig, G. Y., BSc PhD Glas.	(Palaeontol.) Sr Lectr.
Walton, E. K., BSc PhD	Lectr.

Duff, P. McL., BSc	(Econ. G.) Lectr.	Dickinson, W. C., CBE, MC, MA	
Johnston, M. R. W., DIC, BSc PhD	Lectr.	PhD St And., DLitt Lond	
Mercy, E. L. P., DIC, PhD	Lectr.	Donaldson, G., PhD Lond., MA DLitt	Reader
Hollum, A., MA PhD Camb., FGS	Lectr.	Ferguson, W., MA PhD	Lectr.
Wadsworth, W. J., MA DPhil Oxon.	Lectr.	Nicholson, R. G., MA BSc Lond.,	
O'Hare, M. J., MA PhD Camb.	Lectr.	DPhil Oxon.	Lectr.
Upton, B. G. J., BA DPhil Oxon	Lectr.	1 Asst.	
2 Assts.			

**German and Teutonic Philology**

Mason, E. C., BA Oxon., MA Camb.,		Mitchell, J. D. B., LLB PhD Lond	Prof
PhD Leup.	Prof.	MacKinnon, V. S., MA LLB Glas.,	
Wardle, W. L., MA Leu.	Reader	LLM Harv.	Lectr.
Furness, N. A., BA Durh., DPhil Innsbruck		Henderson, H. McN., MA LLB	Lectr.
	Sr. Lectr.		
Silber, Katha, PhD Berl	Lectr.		
George, E. F., MA BLitt Oxon	Lectr.		
2 Assts.			

**Greek**

Bestie, A. J., MA Aberd. & Camb	Prof.		
Borthwick, E. K., PhD Aberd. & Camb.,			
MA	Lectr.		
Stokes, M. C., MA Oxon.	Lectr.		
Robinson, D. B., MA BLitt Oxon	Lectr.		

**Hebrew and Semitic Languages**

Porteous, Rev. N. W., Hon. DD St And.,			
MA Oxon. & Edin., BD	Prof.		
1 Asst.			

**Hispanic Studies**

Crosland, Margaret, MA Camb.	Sr Lectr.		
Wagg, D. R., MA Birn.	Lectr.		
Herrero, J., LLB Madrid, PhD Madrid &			
Edin.	Lectr.		
1 Asst.			

**History**

Horn, D. B., MA DLitt	(Med. H.) Prof.	Schlapp, R., PhD Camb., MA	Sr. Lectr.
Hay, D., MA Oxon.	(Mediev. H.) Prof.	Nisbet, A., MA	Sr. Lectr.
Shepperson, G. A., MA Camb.	Reader	Higgs, P. W., MSc PhD	Lectr.
Kiernan, V. G., MA Camb.	Sr. Lectr.	Candlin, D. J., MA PhD Camb.	Lectr.
Marwick, A. J. B., MA Oxon. & Edin.,		Shrinks, T., BSc	Lectr.
BLitt Oxon	Lectr.		
Malinewicz, A. J. A., MA	Lectr.		
Bullough, D. A., MA Oxon.	Lectr.		
Waddell, D. A. G., MA St And.,			
DPhil Oxon.	Lectr.		

**History, Ancient**

Cadoux, T. J., MA DPhil Oxon	St. Lectr
Lewis, R. G., MA Oxon.	Lectr.

**History, Ancient Scottish, and Palaeography**

Dickinson, W. C., CBE, MC, MA	
PhD St And., DLitt Lond	
Donaldson, G., PhD Lond., MA DLitt	Reader
Ferguson, W., MA PhD	Lectr.
Nicholson, R. G., MA BSc Lond.,	
DPhil Oxon.	Lectr.
1 Asst.	

**History, Constitutional, and Constitutional Law**

Mitchell, J. D. B., LLB PhD Lond	Prof
MacKinnon, V. S., MA LLB Glas.,	
LLM Harv.	Lectr.
Henderson, H. McN., MA LLB	Lectr.

**History, Economic, see also Econ.**

Marwick, W. H., MA	Prof
Flinn, M. W., MA Manc.	Lectr.
Smout, T. C., MA Camb., PhD	Lectr.

**Italian**

Ross, M. M., MA Florence, LabDoe Rowe	Prof.
Phillips, B. D., BA Oxon.	Lectr.
1 Asst.	

**Latin**

Campbell, I. M., MA Glas. & Oxon.	Prof.
Potter, K. R., MC, MA Oxon	Reader
Smith, W. K., MA Camb.	Sr. Lectr.
Wellesley, K., MA Camb.	Sr. Lectr.
West, D. A., BA Camb.	Lectr.
Welsh, P. G., MA Leu., PhD N.U.I.	Lectr.

**Law, see below****Mathematical Physics**

Schlapp, R., PhD Camb., MA	Sr. Lectr.
Nisbet, A., MA	Sr. Lectr.
Higgs, P. W., MSc PhD	Lectr.
Candlin, D. J., MA PhD Camb.	Lectr.
Shrinks, T., BSc	Lectr.

**Mathematics**

Arken, A. C., MA N.Z., DSc LL.D., FRs	Prof.
Edge, W. L., MA ScD Camb.	Reader
Etherington, I. M. H., BA Oxon.	
DSc	Sr. Lectr.

Brown, L. M., MSc *Brist.*, PhD  
*St. And.* (Tech. Maths.) Sr. Lectr.  
 Lawley, D. N., MA *Camb.*, DSc  
 (Stats.) Sr. Lectr.  
 Cosens, J., BA PhD *Camb.*, MA  
 Sr. Lectr.  
 Meit, J. L., MA *Oxon.*, PhD  
 Lectr.  
 Palmer, D. G., MA *Camb.*  
 Lectr.  
 Mackenzie, G., BSc *St. And. & Lond.*  
 (Tech. Maths.) Lectr.  
 Fulton, J., MA PhD *Glas.*  
 (Tech. Maths.) Lectr.  
 Heywood, P., MA DPhil *Oxon.*  
 Lectr.  
 Lucas, A. R., MA (Tech. Maths.)  
 Lectr.  
 Monk, D., MA PhD  
 Lectr.  
 Shaddock, C. J., BA  
 Lectr.  
 Smyth, E. T. W., MA  
 Lectr.

### Medicine and Surgery, see below

#### Mining

McAdam, R., BSc PhD  
 Head Prof  
 Galloway, J., BSc  
 Hon. Lectr.

#### Music

Newman, S. T. M., CBE, MA *Oxon.*,  
 MusD *Durb.*, FRCo, FTCL  
 Reid Prof.  
 Grierson, Mary, OBE, MusDoc  
 Sr. Lectr.  
 Clepham, J., DMus *Lond.*, FRAM  
 Sr. Lectr.  
 Fairbairn, J., MusDoc  
 Lectr.  
 Leighton, K., DMus  
 Lectr.  
 Gal, H., MusDoc *Edin.*, PhD *Vienne*  
 Lectr.  
 Williams, P. F., MA MusB  
 Lectr.

#### Natural History and Zoology

Swann, M. M., MA PhD, FRB  
 Prof.  
 Mitcheson, J. M., MA PhD  
 Reader  
 Mitchell, P. D., PhD  
 Reader  
 Friend, G. F., MA *Oxon.*, BSc *Brist.*  
 (Cytol. & Exper. Zool.) Sr. Lectr.  
 Hale, L. J., BSc PhD *Lond.*  
 Sr. Lectr.  
 Campbell, J. A., BA *Camb.*, PhD  
 Sr. Lectr.  
 Tuft, P. H., MA PhD *Camb.*  
 Lectr.  
 Kille, R. A., BSc PhD  
 (Helminthol.) Lectr.  
 Rayns, C., PhD  
 Lectr.  
 Warwick, T., MSc  
 Lectr.  
 Adam, Mrs. Katherine M. G., BSc  
 Lectr.  
 Manning, A. W. G., BSc *Lond.*  
 Lectr.  
 Wilson, P. A. G., BSc PhD  
 Lectr.  
 Saunders, D. S., BSc PhD  
 Lectr.  
 Walker, P. M. B., BA PhD  
 Lectr.  
 Williamson, M., BA PhD *Camb.*  
 5 Assa.

#### Persian

Elwell-Sutton, L. P., BA *Lond.*  
 Sr. Lectr.

#### Petrology, see Geol.

#### Philosophy

Walsh, W. H., MA *Oxon.*  
 Prof.  
 Corson, A. H., MA (Anc. P.)  
 Reader  
 Fairweather, A. M., STM *U.T.S. (N.Y.)*,  
 Sr. Lectr.  
 MA  
 Sr. Lectr.  
 Davis, G. E., MA DLitt  
 Sr. Lectr.

Stoohoff, R. H., BA BPhil *Oxon.*  
 Hope, V. M., MA  
 2 Assa.

Lectr.  
 Lectr.

#### Philosophy, Moral, see also Psychol

Barnes, W. H. F., MA *Oxon.*  
 Prof.  
 Bedford, E., BA *Lond.*  
 Sr. Lectr.  
 Harrison, J., MA *Oxon.*  
 Sr. Lectr.  
 Broadie, P., MA PhD  
 Lectr.  
 Ardal, P. S., MA PhD  
 Lectr.  
 Eveling, H. S., BA *Durb.*, BPhil *Oxon.*  
 Lectr.  
 Morrice, G. P., MA *Aberd.*  
 4 Assa.

#### Philosophy, Natural

Feather, N., BA PhD *Camb.*, BSc *Lond.*,  
 FRB  
 Prof.  
 Kemmer, N., DPhil *Zür.*, MA, FRB  
 Taib Prof.  
 Paton, J., MA BSc  
 Reader  
 Ross, Marston A. S., MA PhD  
 Reader  
 Farago, P. S., DPhil *Bud.*, FIP  
 Reader  
 Evans, G. R., MSc PhD  
 Sr. Lectr.  
 Sutton, H. C., MSc N.Z., PhD *Durb.*  
 Sr. Lectr.  
 Brown, A. F., MA PhD, FIP  
 Sr. Lectr.  
 Kyles, J., OBE, MA  
 Sr. Lectr.  
 Sillitto, R. M., BSc  
 Lectr.  
 McIntosh, D. H., MA DSc  
 Lectr.  
 Muir, J., BSc PhD  
 Lectr.  
 Burns, J. G., BSc PhD  
 Lectr.  
 Kennedy, P. J., BA *Dub.*, PhD *Lond.*  
 Lectr.  
 Thomas, G. M., BSc PhD *Wales*  
 Lectr.  
 Byrne, J., MSc *Dub.*  
 Lectr.  
 Dougal, R. C., BSc  
 Lectr.  
 Galloway, R. B., BSc PhD  
 Lectr.  
 McKurdy, A. S., BSc  
 6 Assa.

#### Phonetics

Abercrombie, D., BA *Lond.*  
 Reader  
 Urdall, Elizabeth T., BA *Col.*, MA *Lond.*  
 Lectr.  
 Albrow, K. H., BA *Lond.*  
 Lectr.  
 Cripps, Miss Lindsay, MA  
 Lectr.  
 Jones, W. E., MA *Lond.*  
 Lectr.  
 Dea, L. A., BSc

#### Physics, see Philos., Natural

#### Physiology

Whittridge, D., BSc DM *Oxon.*, FRB  
 Prof.  
 Pickford, Mary, DSc *Lond.*  
 Reader  
 Passmore, R., MA DM *Oxon.*  
 Reader  
 Walsh, E. G., MA BM BCh BSc *Oxon.*,  
 MD *Harv.*, DTM&H *Liv.*, MRCP  
 Sr. Lectr.  
 Begbie, G. H., MA PhD MB ChB  
 Sr. Lectr.  
 Dewar, A. D., BSc PhD *Lond.*  
 Lectr.  
 Watt, J. A., BA *Oxon.*, MB ChB  
 Lectr.  
 Haggis, G. H., MA *Camb.*, PhD *Lond.*  
 Lectr.  
 Taylor, D. E. M., MB ChB, FRCS  
 Lectr.  
 Jacobson, M., BSc PhD MB ChB  
 Lectr.  
 Lloyd, Sybil M., MSc

**Political Science**

Nobbs, D., MA Camb. Sr. Lectr.  
 Hamilton, Bernice M., MA PhD Lond. Lectr.

**Psychology**

Drever, J., MA Prof.  
 Collins, Mary, MA BEd PhD, FBPSS Reader  
 McMahon, D., MA Durh. Sa Lectr.  
 Sawcenco, B., MA BEd PhD, FBPSS Sr Lectr.  
 Cookson, Joyce, MA Lectr.  
 Donaldson, Margaret C., MA BEd PhD Lectr.  
 Lakowski, R., MA Lectr.  
 Gladstone, W. H., MA Lectr.  
 Beloff, J. R., BA PhD Lond. Lectr.  
 6 Assts.

**Russian**

Ward, D., BA Camb. Reader  
 Greene, Mrs. Milne, Maglur Riga, PhD Lectr.  
 Vosnesensky, Emilia, BA Nott. Lectr.

**Sanskrit and Comparative Philology**

..... Regus. Prof.  
 Warder, A. K., BA PhD Lond. Lectr.

**Semitic Languages, see Hebrew****Social Study**

Brown, Marjorie A., MA Sr Lectr.  
 Burns, T., BA Brit. Reader  
 Gregor, Mary J. F., BSc PhD Lectr.  
 Brown, Margaret, MBE, BA Lond. Lectr.  
 Richmond, A. H., MA BSc Lectr.  
 Loughton, Vivienne O. Lectr.  
 Craig, Hewan, BA McG., BLitt Oxon. Lectr.  
 Sinclair, Mrs. Susan, MA Lectr.  
 2 Assts.

**Statistics, see Maths.****Technology, Chemical**

Caldertank, P. H., BSc PhD Lond. Prof.  
 Wilson, D. M., BSc PhD Glas. Sr. Lectr.  
 Macleod, N., BSc PhD Lond. Lectr.  
 Jackson, R., MA Camb. Lectr.  
 Beveridge, G. S. G., BSc PhD Lectr.

**Theology, see Div.****Turkish**

Walsh, J. R., BA Lond. Lectr.

**Veterinary Studies, see below****Zoology, see Nat. Hist.****AGRICULTURE AND FORESTRY****Agricultural Bacteriology**

Gibson, T., DSc Lectr.

**Agricultural Chemistry**

Smith, A. M., PhD DSc, FRIC Lectr.

**Agriculture and Forest Entomology**

McHardy, J. W., BSc Sr. Lectr.  
 Guild, W. J., PhD Lond., BSc Lectr.

**Agriculture and Rural Economy**

Watson, S. J., CBE, DSc Durh., FRIC Prof.  
 Knox, M. A., DipAgric Oxon., BSc Sr Lectr.  
 Cunningham, J. M. M., BSc Lectr.  
 Hayes, S. F., BSc, FLS Lectr.  
 Holmes, J. C., BSc MS Juss., PhD Lectr.  
 Runcie, K. V., BSc MS Corn. Lectr.  
 Harkins, J., BSc MA Lectr.  
 Nash, M. J., MSc PhD Lectr.  
 Manson, J. M., MS Calif., BSc Lectr.  
 Thow, R. F., MSc Lectr.  
 1 Asst.

**Animal Genetics**

Waddington, C. H., CBE, MA ScD Camb., DSc, FRS Prof.  
 Auerbach, Charlotte, PhD DSc, FRS Reader  
 Beale, G. H., MBE, BSc PhD Lond., FRS Reader  
 Woolf, B., MA PhD Camb. Sr. Lectr.  
 Clayton, Ruth M., BA Oxon. Lectr.  
 Maule, J. P., MA Camb. Lectr.  
 Selman, G. G., BSc PhD Lectr.  
 Kasser, H., MSc PhD Lectr.  
 Chynton, G. A., BSc PhD Lectr.  
 Bishop, J. O., BSc PhD Lectr.  
 3 Assts.

**Forestry, see also Agric. and For. Entomol.**

Frithain, W., DSc Sa Lectr.  
 Taylor, C. J., MBE, ED, BSc PhD Sr Lectr.  
 Mutch, W. E. S., BSc PhD Lectr.  
 Gifford, D. R., BSc Lectr.  
 Cousens, J. R., BA Camb., MA Oxon. Lectr.  
 Caborn, J. M., BSc PhD Lectr.  
 Malcolm, D. C., BSc Lectr.

**DENTISTRY****Conservative Dental Surgery**

Murdoch, R. A. F., MBE | Lectr.  
 MacKellip, G. MacK. | Lectr.

**Dental Anatomy and Histology**

Kemball, C. H., DDS Penn. Sr. Lectr.

**Dental Mechanics and Prosthetics**

Watt, D. M., PhD Sr. Lectr.  
 Goddes, M., MDS Lectr.  
 Macgregor, A. R. Lectr.  
 Gesser, P. R., BDS Lectr.

<b>Dental Surgery</b>		<b>Evidence and Pleading</b>	
Boyes, J., FRCSed, FDSRCSEd, FDSRCS	Prof.	Duckson, W. F., MA LLB	† Lectr
Dixon, D. A., FDSRCS	Lectr.	<b>Industrial Law</b>	
<b>Dental Surgery and Pathology and Dental Radiology</b>		Wylse, N. R., BA Oson, LLB	Lectr.
Bradshaw, A. R.	Lectr.	<b>International Relations</b>	
Mann, J. H. P., BDS	Lectr.	Calder, P. R., CBE, MA	Montague Burton Prof
Müller, M. W., BSc	Lectr.	<b>Public Law</b>	
<b>Extractions under General Anæsthesia</b>		Campbell, A. H., BCL Oxon, LL.M. Barr, MA Oson & Edin.	Regius Prof
Dyce, P. J. B.	Sr Lectr.	MacGibbon, I. C., MA LLB PhD	Lectr.
Rose, G. M.	Sr Lectr.	Cameron, J. T., BA Oson, LLB	Lectr.
<b>Local Anæsthetics</b>		<b>Scots Law</b>	
Duvall, A. E., FDSRCS	Lectr.	Montgomery, G. A., QC, MA LLB Glas.	Prof.
<b>Operative Dental Surgery</b>		Paton, G. C. H., MA LLB	Sc. Lectr.
Bavendine, W. P., OBE	Sr. Lectr.	Maxwell, D., QC, MA LLB	Lectr.
Chapman, C. E.	Sr Lectr.	Taylor, R. R., MA LLB PhD Glas	Lectr.
Whitman, W.	Lectr.	Wilson, W. A., MA LLB Glas	Lectr.
McGibbon, D. M., LDS	Lectr.	Bennett, R. A., MA LLB	Lectr.
<b>Orthodontics</b>		Clive, E. M., MA LLB	Lectr.
Hopkin, G. B., PhD	Sr Lectr.	<b>MEDICINE</b>	
Dixon, D. A., FDSRCS	Lectr.	(for subs. of the first 2 yrs—Anat., etc., see above)	
<b>Periodontal Diseases</b>		<b>Bacteriology</b>	
Bagrie, G. S., FDSRCSEd	Sr Lectr.	Cruckshank, R., MD Aberd., DPH Edin & Glas., FRCP	R Irvine Prof.
<b>Preventive Dentistry</b>		Swain, R. H. A., MA MD Camb., MRCPEd	Reader
Wallis, C. P., BSc LDS	Lectr.	Brown, J. H., MB ChB, FRCPed	St. Lectr.
<b>LAW</b>		Gilles, R. R., MD DPH	Sr Lectr.
<b>Administrative Law</b>		Macoske, A. F., MD DPH	Hon. Lectr.
McLarty, M. R., QC, MA Camb.	Lectr.	Wallace, A. T., MD DPH	Hon. Lectr.
Stout, C. H., BCom PhD	Lectr.	Coghlan, Mrs. Joyce D., BSc PhD	Lectr.
† Asst.		Wilkinson, J. F., MA PhD Camb	Lectr.
<b>Civil Law</b>		Davis, T. B. M., MB ChB	Lectr.
Smith, T. B., QC, MA DCL Oxon., Hon. LL.D. Cape T., FBA	Prof.	Tunkin, R. W., MB ChB	Lectr.
Topping, M. R., MA LLB Glas	Lectr.	Colles, J. G., MB ChB	Lectr.
† Asst.		McWilliam, Joan M., MB ChB DPH	Lectr.
<b>Constitutional Law, see Hist.</b>		Sligh, J. D., MB ChB	Lectr.
<b>Conveyancing</b>		Davis, B. I., MB BS Lond.	Lectr.
Henry, G. L. F., BL	Prof.	Brown, P. P., MD	Lectr.
Cameron, J. G. S., MA LLB	† Lectr.	Weir, D. M., MB ChB	Lectr.
Duncan, A. G. M., MA LLB	Lectr.	Sutherland, I. W., BSc PhD	Lectr.
† Asst.		Selwyn, S., BSc MB ChB	Lectr.
<b>Criminal Law and Criminology</b>		<b>Chemistry, Clinical</b>	
Shields, J. V. M., CBE, QC, MA LLB	Sr Lectr.	Tompsett, S. L., BSc Lond., PhD DSc Glas., FRIC	Reader
McDonald, I. F., LLB	Lectr.	Esson, L. H., BSc PhD	Sr. Lectr.
		Owen, J. A., BSc MD PhD	Sr. Lectr.
		Crombie, J. D., BSc MB ChB DPH	Lectr.
		Kapeller-Adler, Regina, PhD Vienna, DSc	Lectr.
		Albert-Recht, F., MB ChB	Lectr.
		Thomson, C. G., BSc PhD	Lectr.
		Leslie, R. G. S., BSc MB ChB	Lectr.

Seandrott, F. J., PhD  
1 Asst.

**Child Life and Health**, see also Clin.  
Teaching Staff, below

Ellis, R W B, OBE, MA MD Camb.,  
FRCPEd, FRCP

Tait, H P, MD DPH, FRCPEd

Forfar, J. O., MC, BSc MD St. And.,  
FRCPEd, MRCP

Farquhar, J. W., MD, FRCPEd

Methven, Margaret, MB ChB MA

Ingram, T T S, MD, MRCPed

Thomson, J., MD DPH

Drilben, C. Mary, MD

Isles, T E, BSc PhD

Craik, I F., MB ChB DPH

Schutt, W., MB ChB, MRCPed

**Dermatology**

Percival, G. H., DPH Edin. & Glas.,  
MD PhD, FRCPEd

Hansay, P. W., MB ChB, FRCPEd

**Eye, Diseases of the**, see Clin. Teaching  
Staff, below

**Forensic Medicine**

.....  
Fiddes, F S, OBE, MD, MRCPed

Street, H. V., MSc Birm., FRIC

**General Practice Teaching Unit**

Scott, R., MD DPH

MacLean, D. W., MB ChB

Patterson, J. E., MA

McLaren, A. C., TD, MB ChB

Walker, J., MD

Lamont, L., MA MB ChB Glas.

Lipetz, S., MD

Thomson, W. P.

Gibbs, Constance A., MB ChB

Donald, A. G., MA MB ChB

Gaskill, P. G., MB ChB

Sutherland, Mrs. Joan K., MB ChB

Mestitz, P., MB BS BSc Lond., MRCP

**Gynaecology**, see Obstet. and Gynaecol.

**Infectious Diseases**

Murdoch, J. M., FRFPGlas

**Laryngology, Otology and Rhinology**  
see Clin. Teaching Staff, below

**Materia Medica**

Perry, W. L. M., OBE, DSc MD St. And.

Adam, H., MB ChB

Brocklehurst, W. E., BPharm BSc

PhD Lond.

Lectr.

Crawford, T. B. B., BSc PhD

Stephenson, R. P., BSc Birm. & Oxon.

Barlow, R. B., MA BSc DPhil Oxon.

Ginsberg, B. L., BSc PhD Lond.

Loraine, J. A., MB ChB PhD DSc, FRCPEd

Hon. Lectr.

**Medicine**, see also Clin. Teaching Staff, below

Donald, K. W., DSc, DSc Birm., MA

MD Camb., FRCPEd

Gilchrist, A. R., CBE, MD, FRCPEd, FRCPEd

(Clin. Cardiol.) Reader

Card, W. I., MD Lond., FRCPEd, FRCPEd

Turner, R. W. D., OBE, MA MD Camb.,

FRCPEd, FRCP

Duthie, J. J. R., MB ChB Abert.

(Rheumatol.) Sr. Lectr.

French, E. B., BA MB BChir Camb.

Strong, J. A., MBE, BA MB BCh

BAO Dub., FRCPEd, MRCP

Simpson, J. A., MB ChB Glas., MRCP,

FRCPEd, FRFPGlas

Taylor, S. H., BSc MB ChB

James, J., MD, FRCPEd

MacLeod, J. G., MB ChB, FRCPEd

Sinclair, R. J. G., FRCPEd

Richmond, J., MB ChB, MRCP

Marquis, R. M., MBE, MB ChB,

FRCPEd

Sircus, W., PhD Sheffield, MD Lond.,

MRCP, FRCPEd

Matthews, M. E., MD, MRCP, FRCPEd

Sutherland, G. R., MB ChB, MRCPed

Stanton, J. B., MA MB BChir Camb.,

DPM Lond., MRCP

Oliver, M. F., MD, FRCPEd

Habib, G., MB ChB BSc, MRCP

McKenzie, G. J., MB ChB, MRCPed

2 Assts.

**Medicine, Clinical**, see Clin. Teaching  
Staff, below

**Mental Diseases**, see Psychol. Med.

**Neurological Surgery**

Gillingham, P. J., MBE, MB BS Lond.,

FRCSEd, FRCS

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Keenedy, C. D., MB ChB, MRCPed,  
FRCSed, FRCOG  
Irvine, D. J. M., MB ChB, FRCOG  
Dunlop, J. C. H., BA BM BCh Oxon  
Myerscough, P. R., MB ChB, FRCSEd  
Louden, J. D. O., MB ChB, FRCSEd

Lectr.  
†Lectr.  
Hon Lectr.  
†Lectr.  
†Lectr.

### Ophthalmology

Scott, G. I., MA MB ChB, FRCSEd  
Callen, J. F., MCh N U.J., FRCS  
Stolue, N. L., MB ChB, FRCSEd,  
FRACS

Prof.  
Sr Lectr.  
Hon. Sr Lectr.

### Orthopaedic Surgery

Jones, J. I. P., MB MS Lond, FRCS  
Chalmers, J. M., FRCS  
McQuillan, W. D., MB ChB, FRCS  
Savill, D. L., MB ChB, FRCSEd  
Dick, I. L., MD ChM, FRCSEd  
Mitchell, G. P., MC, MB ChB, FRCSEd

Prof.  
Sr Lectr.  
Lectr.  
†Lectr.  
†Lectr.  
†Lectr.

### Pathology, see also Anat. and Bacteriol.

Montgomery, G. L., TD, PhD St. And,  
MD Glas, FRPFG Glas  
Ogilvie, R. P., MD DS, FRCPEd  
Williams, A. W., DCP Lond., MD PhD

Prof.  
Reader  
Sr Lectr.

Maloney, A. F. J., BSc MB ChB,  
FRCPed  
Davidson, J., MB ChB, FRCPEd  
Shaw, A. A., MD DPH  
MacDonald, Mary K., MB ChB, MRCPed

Sr Lectr.  
Lectr.  
Sr Lectr.  
Sr Lectr.

McGregor, J. D., MB ChB  
Gardner, D. L., MA PhD Camb., MD,  
MRCPed  
Nagle, R. S., MB ChB DTM&H  
Hunt, W. E., MA BM BCh Oxon.  
Smith, I. I., MB ChB  
Black, J. W., MB ChB  
Yates, P. A., MSc Manc., MB ChB  
Harcourt-Webster, J. N., MA MB BChir  
Camb.  
Turner, J. H., BSc MB ChB  
Smith, M. B., MB ChB  
Montgomery, H., MB BS Lond  
Finlayson, D. I. C., MB ChB, FRCS

Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
†Lectr.

### Psychological Medicine

Carstairs, G. M., DPM Lond., MA MD,  
FRCPed  
Fish, F. J., MB BS DPM Lond., MRCP  
Smythies, J. R., MA MD Camb., MSc Camb  
& Br. Col., DPM Lond., MRCP  
Drewery, J., MA  
Fawcett, F. G., MB BS Durk., DPH  
Oswald, I., MA MD Camb.  
Kierman, W. E. S., MB BCh BAO Belf.,  
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Prof.  
Sr Lectr.  
Sr Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Public Health and Social Medicine

Brotherston, J. H. F., DrPH Johns H.,  
DPH Lond., MA MD, FRCPEd  
Seiler, H. E., MD Glas., DPH Camb.,  
FRCPed  
Hobson, B. M., BSc Aber., PhD  
Mansbridge, J. N., PhD  
Morrison, S. L., MB ChB St. And.,  
DPH Lond.  
Martin, F. M., BA PhD Lond  
Burgess, R. C., MB ChB St. And  
Sklaroff, S. A., BSc  
Mills, A. R., DPH DTM&H PhD  
Cameron, D., MB ChB DPH  
Gilloran, J. L., MB ChB Glas., DPH Lond.  
Kinnaird, J., MA BL, CA  
Muir, J. M., MB ChB DPH  
Peters, R. J., MD DPH, FRCP  
Smith, E. A., PhD DPH

Prof.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
Sr Lectr.  
†Sr Lectr.

### Radiodiagnosis

Samuel, E., BSc Wales, MD Lond., DMRE  
Camb., MRCPed, FRCS, FRCSEd,  
FFR  
Lindsay, D. W., MB ChB Glas.,  
DMRE Camb.  
Mackenzie, K. A., MB ChB DMR

Hon. Reader  
Hon. Lectr.  
Hon. Lectr.

### Radiology

McWhirter, R., CBE, MB ChB Glas.,  
DMRE Camb., FRCSEd, FFR

Prof.

### Surgery, see also Clin. Teaching Staff, below

Bruce, J., CBE, MB ChB, FRCSEd  
(Chn. S.) Prof.  
Woodruff, M. F. A., BEE MD MS Melb.,  
FRCSed, FRCS, FRACS (Surg. Sci.) Prof.  
Bend, D., MB ChB, FRCSEd  
(Urological S.) Reader  
Wallace, A. B., MSc McG., MB ChB,  
FRCSed (Plastic S.) Reader  
Brown, J. J. M., OBE, MB ChB, FRCSEd  
(Paediatric S.) Reader  
Logan, A., MA MD ChB St. And., FRCSEd,  
FRCS (Thoracic S.) Reader  
Miche, D., MA DPhil Oxon. (Surg. Sci.) Reader  
McNair, T. J., MD, FRCSEd, FRCS  
†Sr Lectr.

Howard, J. G., MD PhD Lond.  
(Surg. Sci.) Sr Lectr.  
Sinclair, I. S. R., MB ChB, FRCSEd Sr Lectr.  
Nolan, B., MB ChB, FRCS, FRCSEd  
(Surg. Sci.) Sr Lectr.

Cameron, J. R., FRCSEd  
Macpherson, A. I. S., MB ChM, FRCSEd  
Smith, A. N., MD Glas., FRCSEd  
Falconer, C. W. A., MB ChB, FRCSEd  
Thomson, J. W. W., MB ChB, FRCSEd

Lectr.  
Lectr.  
Lectr.  
Lectr.

### Therapeutics

Gardwood, R. H., MD PhD, FRCP,  
FRCPed

Prof



Robson, J. S., MD, MRCPed Reader  
 Duncan, L. J. P., BSc MB ChB, MRCPed  
 Hon Sr Lectr.  
 Lambie, Anne T., MB ChB, MRCP Lectr.

#### Tropical Climates, Diseases of

Wright, F. J., MA MD Camb., FRCPed, FRCP Sr. Lectr.

#### Tuberculosis

Crofton, J. W., MD BChir MA Camb., FRCP, FRCPed Prof.  
 Horne, N. W., MB ChB, FRCPed Hon. Lectr.  
 Ross, J. D., MPH *Johns H.*, MB ChB, FRCPed Hon. Lectr.  
 1 Asst.

#### Veneral Diseases

Lees, R., MD, FRCPed Lectr.  
 Murrell, Marjory, MB BS Lond. Asst.

### CLINICAL TEACHING STAFF

#### ROYAL INFIRMARY—

##### Anæsthetics

Robertson, J. D., MD, FRCPed, FFARCS

##### Clinical Medicine

###### Physicians-in-Charge

Girdwood, Prof. R. H., MD PhD, FRCP, FRCPed  
 Donald, Prof. K. W., DSc, DSc *Bark.*, MA MD Camb., FRCP  
 Gächst, A. R., MD, FRCP, FRCPed  
 Slater, J. K., OBE, MD, FRCPed  
 Cameron, J. D. S., CBE, TD, MD, FRCPed, MRCP  
 Lyon, R. M. M., MD, FRCPed

###### Physicians

Lamb, W. L., TD, MB ChB, FRCPed  
 Hamilton, J. G. M., MB ChB, FRCPed  
 Crooks, J. H., BA Camb., MB ChB, FRCPed.  
 Robertson, C. K., MD, FRCPed  
 Batty, D. M. F., MB ChB, FRCPed  
 Innes, J., MD, FRCPed  
 Matthew, H. J. S., MB ChB, FRCPed  
 Marquis, R. M., MBE, MB ChB, MRCPed  
 Matthews, J. D., BA Camb., MB ChB, MRCPed

##### Clinical Obstetrics and Clinical

###### Gynaecology

###### Obstetricians and Gynaecologists-in-Charge

Kellar, Prof. R. J., MBE, MB ChB, FRCPed, FRCPed, FRCOG  
 Sturrock, J., MB ChB, FRCPed, FRCOG  
 Kennedy, C. D., MB ChB, FRCPed, FRCOG

###### Obstetricians and Gynaecologists

Matthew, G. D., MB ChB, FRCPed, FRCOG  
 Callum, W. D. A., MB ChB, FRCPed  
 Irvine, D. J. M., MB ChB

Myersonough, P. R., MB ChB, FRCPed  
 Pearson, J. G., MB ChB Lond., FRCS, FFR

#### Clinical Surgery

##### Surgeons

Bruce, Prof. J., CBE, MB ChB, FRCPed  
 Woodruff, Prof. M. F. A., BEE MD MS *Melb.*, FRCPed, FRCS, FRACS  
 Adamson, W. A. D., MB ChB, FRCPed  
 Macpherson, A. I. S., MB ChM, FRCPed  
 Cameron, J. R., FRCPed  
 Farquharson, E. L., MD, FRCPed, FRCS  
 Jeffrey, J. S., MA MD, FRCPed  
 Wilson, T. I., MB ChB, FRCPed  
 Porter, H. W., MB ChB, FRCPed  
 Sinclair, I. S. R., MB ChB, FRCPed  
 McIntosh, D., MD, FRCS, FRCPed

#### Dermatology

##### Physicians-in-Charge

Falconer, Prof. G. H., DPH *Edm. & Glas.*, MD PhD, FRCPed  
 Peterkin, G. A. G., MBE, MB ChB, FRCPed  
 Physicum  
 Hannay, P. W., MB ChB, FRCPed

#### Ear, Nose and Throat

##### Surgeons-in-Charge

Stewart, J. P., MD, FRCPed  
 Surgeons

Smith, A. B., MD DPH *Glas.*, FRCS  
 Farquharson, I. M., MB ChB, FRCPed  
 Lumsden, R. B., TD, MB ChB, FRCPed  
 McDowell, G. D., MB ChB, FRCPed

#### Neurological Surgery

Dott, Prof. N. M., CBE, MB ChB, FRCPed  
 Harris, P., FRCPed, FRCPed  
 Gillingham, F. J., MBE, MB BS, FRCPed, FRCS

#### Ophthalmology

##### Surgeons-in-Charge

Scott, Prof. G. I., MA MB ChB, FRCPed  
 Paterson, J. R., MB ChB, FRCPed

##### Surgeons

Macaskill, J., MB ChB, FRCPed  
 Jackson, C. R. S., MA BM BCh *Oxon.*, FRCPed  
 Hembridge, B. A., MD

#### Orthopaedic Surgery

James, Prof. J. I. P., MB MS *Lond.*, FRCS  
 Dick, I. L., MD ChM, FRCPed  
 Savill, D. L., MB ChB, FRCPed  
 Mitchell, G. P., MC, MB ChB, FRCPed  
 Lamb, D. W., MB ChB, FRCPed

#### Thoracic Surgery

Logan, A., MA MB ChB, FRCPed, FRCS

Wade, J. D., MA MB BChir Camb., FRCSEd,  
FRCS  
McCormack, R. J. M., MB ChB, FRCSEd  
Walbaum, P. R., MB ChB, FRCS

#### ROYAL HOSPITAL FOR SICK CHILDREN—

**Pediatrics-in-Charge**  
Ellis, Prof. R. W. B., OBE, MA MD Camb.,  
FRCP, FRCPEd  
Nicholson, D. N., TD, MB ChB, FRCPEd  
Dott, E. F., MB ChB DPH, FRCPEd

**Pediatricians**  
Mallor, R. A., MA PhD MD, FRCPEd  
Douglas, D. M., MD BS Lond., MRCP

**Surgeon-in-Charge**  
Brown, J. J. M., OBE, MB ChB, FRCSEd

**Surgeons**  
Mackay, Rosamund M. I., MB BS Lond.,  
FRCSEd  
Roberts, F. H., MB ChB, FRCSEd

#### Ear, Nose and Throat

Burrell, J. F., MD, FRCSEd Surgeon-in-Charge  
Surgeon

#### Plastic Surgery

Wallace, A. B., MSc McG., MB ChB,  
FRCSEd Surgeon

#### WESTERN, NORTHERN AND EASTERN GENERAL HOSPITALS

##### Medical Unit

**Physicians-in-Charge**  
Turner, R. W. D., OBE, MA MD Camb., FRCP,  
FRCPEd

Card, W. I., MD Lond., FRCPEd, FRCP  
Duchie, J. J. R., MB ChB Aberd., FRCPEd  
Simpson, J. A., MB ChB Glas., MRCP,  
FRFPsGlas

Bruce, J. A., MB ChB, FRCPEd  
Wright, F. J., MA MD Camb., FRCPEd, FRCP

##### Physicians

Selster, J. G., BSc MB ChB, FRCPEd  
Strong, J. A., MBE, BA MB BCh BAO Dub.,  
MRCP

MacLeod, J. G., MB ChB, FRCPEd  
Sinclair, R. J. G., FRCPEd  
Stanton, J. B., MA MB BChir Camb., DPM  
Lond., MRCP

Sircus, W., MD Lib., PhD Staff. & Edin., MRCP  
Matthews, M. B., MA MD Camb., MRCP  
French, E. B., BA MB BChir Camb., MRCP  
Grant, I. W. B., MB ChB, FRCPEd

#### Obstetrics and Gynaecology Unit

**Obstetricians and Gynaecologists-in-Charge**  
Matthew, G. D., MB ChB, FRCSEd, FRCOG  
MacGregor, T. N., MD, FRCSEd, FRCOG  
Anderson, A. F., BSc MB ChB, FRCSEd,  
FRCOG

Myerscough, P. R., MB ChB, FRCSEd  
Parrson, J. G., MB ChB Lond., FRCS, FFR

#### Pediatrics

**Pediatrician-in-Charge**  
Forster, J. O., MC, BSc MB ChB St. And.,  
FRCPEd, MRCP

#### Surgeons

Brown, J. J. M., OBE, MB ChB, FRCSEd  
Kirkland, I. S., MB ChB, FRCSEd

#### Surgical Unit

##### Surgeons

Band, D., MB ChB, FRCSEd  
Falconer, C. W. A., MB ChB, FRCSEd  
Ross, J. A., MBE, MD, FRCSEd  
McNair, T. J., MD, FRCS, FRCSEd  
Tulloch, W. S., MB ChB, FRCSEd  
Small, W. P., MB ChB, FRCSEd, MRCPed  
Smith, A. N., MD Glas., FRCSEd

#### ROYAL (DICK) SCHOOL OF VETERINARY STUDIES

##### Veterinary Anatomy

Graham, T., TD, FRCVS	Reader
Taylor, J. A., FRCVS	St. Lectr.
Morris, P. G. D., MA	Lectr.
Speed, I. G.	Lectr.
Stokes, W. M., BSc PhD	Lectr.
Hutton, P. H.	Lectr.

##### Veterinary Bacteriology

Taylor, A. W., PhD DSc	Sr. Lectr.
Phillips, J. E., BSc	Lectr.
Fraser, G., BSc PhD	Lectr.
Davis, Margaret E., BSc PhD	Lectr.

##### Veterinary Hygiene

Robertson, A., MA BSc PhD, FRIC	Prof.
Chalmers, A.	Sr. Lectr.
Ferguson, G. S., BSc DVM	Sr. Lectr.
Moodie, E. W., BSc PhD	Sr. Lectr.
Paver, H., BSc PhD	Lectr.
Robertson, I. S., BSc PhD	Lectr.
Wilson, J. E., BSc	† Lectr.
Mauls, I. P., MA DupAgric Camb., AICTA	† Lectr.
Graham-Marr, T., BSc	Lectr.
Barden, P. J., BVSc	Lectr.
Walker, A. I. T., BSc	Lectr.

##### Veterinary Jurisprudence

Mackenzie-Stuart, A. J., BA Oxon., LLB	Lectr.
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##### Veterinary Medicine

Bodde, G. F., BSc	Prof.
McPherson, E. A., MSc	Sr. Lectr.
Gregor, W. W.	Lectr.
McTegart, H. S., BA BSc	Lectr.
Mackenzie, C. P., DVM	Lectr.

**Veterinary Pathology**

Beattie, I. S., BSc  
 Head, K. W., BSc  
 Whitney, J. C.  
 Gollinty, J. B. M., BSc  
 Rowland, A. C., BSc

Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Mitchell, A. W.  
 Davidson, C. B.

Lectr.  
 Lectr.

**Veterinary Surgery**

Spreall, J. S. A., PhD  
 Burgess, J. W.  
 Fraser, J. A., BSc  
 Wilson, J. C., BSc  
 Mitchell, B., BVM&S  
 Clark, W. T., BVM&S

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Veterinary Pharmacology**

Alexander, F., PhD DSc  
 Bartlet, A. L., BPharm PhD

Reader  
 Lectr.

**Veterinary Physiology**

Iggo, A., BSc MAgricSc NZ, PhD  
 Elliot, F. J., MSc PhD, FRIC  
 Lundy, H., BSc  
 Leek, B. F., BSc BVM&S  
 Haigh, A. L., BSc PhD

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Veterinary Practice Teaching Unit**

MacLennan, W.  
 Withers, A. R., BSc

Sr. Lectr.  
 Sr. Lectr.

**GIFFORD LECTURER IN NATURAL****THEOLOGY**

(held for 2 yrs.)

1962-63—D. Duhaie

**EXTRA-MURAL STUDIES**

Hosack, J., MA BCom Dir.  
 Barclay, J. B., MA Asst. Dir.  
 McNee, Mrs. Charlotte R., MA Lectr.  
 Chisholm, J., MA Tutor-Organizer

**ADMINISTRATIVE AND OTHER STAFF**

UNIVERSITY OFFICE. Asst. Secs.: L. D. Macmillan, BL; J. Macpherson, DFC, MA LLB; R. Maxwell Young, TD, BL; P. McIntyre, MA.

Sr. ADMINISTRATIVE OFFICERS. Fac. of Arts, J. M. MacFarlane, MA *Aberd.*, BLitt *Oxon.*; Fac. of Med., D. H. Wood, MA; Fac. of Sci., M. Robson, BSc.

ASSISTANT ACCOUNTANT. D. I. Cameron, BL *Glas.*, CA.

UNIVERSITY LIBRARY. Dep. Librarian, J. C. Cooon, MA PhD. Keeper of Manuscripts, C. P. Finlayson, MA.

UNIVERSITY CHAPLAIN. Rev. J. C. Blackie, STM U.T.S. (N.Y.), BD.

DIRECTOR OF STUDENT ACCOMMODATION AND WELFARE OFFICE. Diana C. Matchett.

DIRECTOR OF PHYSICAL EDUCATION. L. E. Liddell, BA *Leeds*.

UNIVERSITY ORGANIST. H. Bunney, BMus, FRGO.

RADIATION PROTECTION OFFICER. J. R. Greening, BSc PhD.

MASTER OF WORKS. J. Hamilton.

WARDENS OF HALLS OF RESIDENCES. Cowan House: A. Macpherson, MA, Holland House: D. A. Buellough, MA; Mission Hall: Mrs. J. L. Paton, MA; Muir Hall: Miss M. Crosland, MA.

WARDENS OF STUDENT HOUSES. Drummond House: Miss E. Vosnesensky, BA; Jeffrey House: D. R. Wagg, MA; Gladstone House: M. J. H. Weston, BSc; Moncreff House: A. Lannett, BSc; Stirling Maxwell House: B. F. Leek, BSc; Derby House: I. W. Sutherland, BSc; Harrington House: A. R. Press, BA; Rosebery House: T. H. Kimani, MB BS; Idlesleigh House: M. M. Paton, BA PhD.

**CONSTITUENT COLLEGE**

NEW COLLEGE, The Mound, Edinburgh (tel.: Caledonian 4272). Founded in 1826 by the Free Church of Scotland: from 1900 a Divinity Hall of the United Free Church of Scotland, and from 1929 of the reunited Church of Scotland in union with the Divinity Hall of the Church of Scotland as previously constituted by the univ. fac. of div.; the rest of the fac. of div. in the univ. as enlarged after 1929, now owned and maintained by the univ., and accommodating the ordinary and the

postgrad. courses in theol. Principal and Dean of Fac., Very Rev. Prof. J. H. S. Burleigh, BLitt *Oxon.*, DD *Aberd.*, MA BD; Sec., Rev. Prof. N. W. Porteous, MA DD, *Staff.*, the Profs. and Lectrs., see p. 1352. Librarian: Rev. J. A. Lamb, PhD (over 100,000 vols. in the collection). CHRISTIAN SOCIETY: Rev. W. S. Trindal, OBE, MA DD *Glas.*, Warden of New College Settlement. ALLOCATION. Miss Balfour Brown.

## AFFILIATED COLLEGE

**HENROT-WAIT COLLEGE**, Chambers St., Edinburgh, 1 (tel.: Galedonien 7121). Founded as sch. of arts, 1821; present title adopted, 1883. Affiliated to the Univ. of Edinburgh, 1933. Chairman of governors, the lord provost of Edinburgh. Principal, H. B. Nisbet, PhD DSc Edin., FRIC. The coll. provides instruction in day and eve. classes for those following or proposing to follow technical courses in civil engin., mech. engin., electr. engin., mining engin., appl. chem., chem. engin., maths, phys., brewing, biochem., pharmacy, bldg. and printing. Eve. courses are also provided in management studies, comm. and langs. Spec. courses arranged for res. students. Degree courses for BSc of Edinburgh Univ. in mining engin. and in chem. technol. Associateships for full-time day study in civil engin., mech. engin., electr. engin., mining engin., appl. chem., chem. engin., brewing and appl. biochem., appl. pharmacy, appl. phys., appl. maths. and bldg. Cert. courses in pharmacy and printing, commercial teachers' dipl. courses. Mine rescue sin available for instruct. of day students. The coll. is authorized by the Home Office to grant certs to mine firemen, exams being arranged at various centres in the Lothians, Fife and Clackmannan.

Entrance exam. in Aug. Exemption granted to students who hold the Scottish Cert. of Educn. or have passed the Scottish univ. prelim. exam., or satisfy the principal as to the adequacy of their general educn.

Students holding a degree in pure or appl. sci. of a recog. univ. or the Henrot-Wait Coll. associateship or a similar qualif. of another technical coll. may be admitted for spec. study for the coll. fellowship.

Fees: Entrance exam., £1: 18. Admission direct to end or 3rd yr. courses, £2: 108. Matric.

fee for each session, degree, see p. 1366, dipl. and cert., £2: 108. for full-time students, others, £1. Tuition fees: brewing, mech., civil or electr. engin., mining engin., appl. chem., chem. engin., £70 p.a.; appl. pharm., appl. phys., appl. maths., tech. biochem., bldg., £70 p.a. Tuition fees for cert. courses: pharm., £63 p.a.; printing, £61 p.a.; commercial teachers' dipl., £60 p.a.

STAFF: CHEM., Prof. F. Bell, PhD DSc Lond., FRIC; 1 Principal Lectr., 2 Sr Lectrs., 7 Lectrs. CHEM. ENGIN., Prof. P. H. Calderbank, BSc PhD Lond.; 1 Sr. Lectr., 4 Lectrs. BREWING & APPL. BIOCHEM., Prof. I. A. Prescott, PhD DSc Birm., FRIC; 1 Sr. Lectr., 2 Lectrs. ENGIN., CIVIL, Prof. . . . 1 Principal Lectr., 4 Lectrs. ENGIN., ELECTR., Prof. M. G. Say, DIC, PhD MSc Lond.; Asst. Prof. E. O. Taylor, DIC, BSc Lond.; 1 Principal Lectr., 1 Sr. Lectr., 4 Lectrs. ENGIN., MECH., Prof. R. S. Silver, MA PhD DSc; Asst. Prof. W. L. Brice, MScTech BSc Manc.; 1 Principal Lectr., 1 Sr. Lectr., 5 Lectrs. ENGIN., MINING, Prof. R. McAdam, BSc PhD Edin., 1 Sr. Lectr., 4 Lectrs. MAINS, Prof. R. Smart, MA St. And.; 1 Principal Lectr., 1 Sr. Lectr., 5 Lectrs. PHYS., Prof. W. H. J. Chalder, DSc Lond., FIP, Asst. Prof. R. Milligan, BSc; 7 Lectrs. BLDG., N. C. Sidwell, MSc Lond., PhD Edin., 5 Lectrs. PHARMACY, H. H. Campbell, BSc Edin., FRIC; 1 Sr. Lectr., 7 Lectrs. INDUST. ADMIN., J. Glog, BCom Lond., FCIS; 1 Sr. Lectr., 6 Lectrs. PRINTING, F. P. Rostall, 5 Lectrs. In addition, 160 visiting lecturers and instructors.

Students (1961-62): 679 full-time day students, 770 pt.-time day students and 1739 eve. students. 648 of the students were studying for univ. or equivalent qualifs.

## ASSOCIATED INSTITUTION

**THE EDINBURGH SCHOOL OF AGRICULTURE**, The King's Buildings, West Mains Rd., Edinburgh, 9 (telegrams: Rural, Edinburgh; tel.: Newington 1041). The sch. comprises the Edinburgh & E. of Scotland Coll. of Agric., in which univ. courses are provided, and the Univ. of Edin. dept. of agric. which, with other univ. depts., provides courses for coll. students. Principal, Prof. S. J. Watson, CBE, DSc Durh., FRIC; Dir. of Studies, L. S. Cobley, BSc, AICTA, S. F. Hayes, BSc Agric. & Rural Econ., Prof. S. J. Watson; Sr. Lectr., M. A. Knox, DipAgric. Oxon., BSc; Lectrs., S. F. Hayes, BSc (Hortic. Crops), J. M. M. Cunningham, BSc, K. V. Runcie, MS Cren., BSc, J. C. Holmes, MS Leas, BSc PhD, J. Harkins, BSc, M. J. Nash, MSc PhD, J. M. Manson, MS Calif., BSc, R. F. Thow, MSc Agric. Econ. & Farm Accounting, Hd. of Dept., J. D. Nutt, BA; Lectrs., F. Roberts, BA DipEd, D. M. R. Leask, BSc Agric. Engin.,

SURVEYING & BLDG. CONSTRUCTION, Hd. of Dept., L. M. Walker, BSc, Lectrs., A. Haidie, BSc, D. A. Jack, MSc, BACTERIOLOG., Hd. of Dept., Mrs. Anna C. Stirling, BSc PhD; Lectr., A. J. Holding, MS Wir., BSc PhD not., Lectrs., L. S. Cobley, BSc, AICTA, P. C. Harper, BSc PhD, J. H. Lennard, BSc PhD, C. Gault, Hd. of Dept., A. M. Smith, CBE, PhD DSc, FRIC; Lectrs., H. Tod, BSc PhD, P. McDermid, MSc PhD, R. A. Edwards, BSc, J. F. D. Greenhalgh, MA Camb., MS Ill., PhD for (Edin. Univ. for dept.), Agric. Hd. of Dept., C. J. Taylor, MBE, ED, BSc PhD, and Assts. HORTIC., Hd. of Dept., J. Bruce; Lectr., S. F. Hayes, BSc, Demar., P. N. Linton, VET. SCI. (Royal (Dick) Sch. of Vet. Studies), Prof. A. Robertson, MA BSc PhD, FRIC, E. W. Meade, BSc PhD, ZOOL., Lectrs., J. W. McHardy, BSc, W. J. Gauld, BSc PhD, A. R. McLellan, BSc. 9 Specialist Advisory Officer Depts. (Bot. and plant pathol., bacteriol.,

entomol., econ., chem., vet. sci., farm bldgs., statistics, bee-keeping), with graduate staff of 37 Extension Staff. Regional Directors, G. A. Catto, BSc, A. K. M. Macklejohn, BSc, and 46 Assis.

Students (1961-62). 199 full-time students, of

whom 21 were reading for postgrad. qualifs., 49 for BSc in agric., 120 for dipls. and certs., 38 for BSc in for., and 39 for BSc in pure sci. for pt instruct., 106 evg students.

## GENERAL INFORMATION

The Univ. of Edinburgh was originally 'the Town's College', founded in 1583 by the town council of Edinburgh, under general powers granted by a charter of King James VI, dated April 14, 1582. From the first the coll. possessed the privilege of conferring degrees. This privilege was ratified by the 'act of confirmation', passed in 1621, which secured to the 'College of James VI' (as it had come to be called) all the rights, immunities and privileges enjoyed by the other univs. of Scotland. Gradually, in acts of the general assembly, of the town council, and of parliament, the 'College of James VI' came to be styled 'the University of Edinburgh'; but it remained under the control and patronage of the town council until 1858, when, by the Universities (Scotland) Act, all the univs. of Scotland received new and autonomous constitutions.

Royal (Dock) Sch. of Veterinary Studies, Summerhall, Edinburgh, 9 (tel.: Newington 6801, telegrams: Veter, Edinburgh). Founded 1823, became sch. of vet. studies within the univ., 1951 (see p. 1361).

**CONSTITUTION.** By the Universities (Scotland) Act, 1889, the univ. court was constituted a body corporate; it administers the whole univ. property. The *senatus academicus* regulates teaching and discipline; the general council is empowered to make representations to the court on all questions affecting the univ.'s prosperity. The chancellor, elected by the general council for life, is pres. of the general council and nominates an assessor in the univ. court. The vice-chancellor is nominated by the chancellor. The principal, elected by the censors for life, is pres. of *senatus*; in the absence of the rector he presides at meetings of univ. court, and in the chancellor's and rector's absence, at statutory meetings of general council. The rector, elected by matriculated students for 3 yrs, is pres. of univ. court, and appoints an assessor to it. The court comprises rector, principal, lord provost of Edinburgh, assessor nominated by chancellor, by rector and by town council; 4 assessors elected by *senatus* and 4 by general council. The *senatus* comprises principal, profs. and certain readers and lectrs. The general council consists of chancellor, members of court, profs. and grade. of univ., as well as readers and lectrs. of at least 1 yr.'s standing.

**INCOME** (1960-61). Total income, £3,064,472 (govt. grants, 75.5 per cent.; fees, 10.1 per cent.; endowments, 2.7 per cent.; other sources, 11.7 per cent.).

**FACILITIES AND DEANS.** Arts, Prof. D. Hay (hist.), *deu.* Very Rev. Prof. J. H. S. Burleigh

(ecclies. hist.), *law*, Prof. A. H. Campbell (pub. law), *med.*, Prof. J. H. F. Brotherton (pub. health); *music*, Prof. S. T. M. Newman, *sci.*, Prof. E. L. Hurst (org. chem.).

There are 21 depts. of studies in the fac. of arts, 18 in the fac. of sci. and 1 for those combining studies in the facs. of sci. and med.

**UNIVERSITY PRECINCT.** In the central area of Edinburgh is the old coll., which contains the present univ. library, the univ. offices and, with adjacent bldgs., the facs. of arts and law and the dept. of phys. (The old coll. on the site of 'Kirk o' Field', the scene of the murder of Lord Darnley, was designed by Robert Adam and William Playfair, and completed in 1828). Close to this site lies the med. sch., in immediate proximity to the Royal Infirmary, with the univ. union and the Reid Sch. of Music. Immediately behind these bldgs. is George Sq., where work has already begun on a new arts bldg., and where the new univ. library and a fundamental sci. bldg. are also to be erected. Still in central Edinburgh, New Coll., which houses the univ.'s fac. of div., is situated on the Mound, overlooking Princes St. At West Mains, some 2 miles from George Sq., to the south, the King's Bldgs. provide a fine site for other depts. in the faculty of sci. The outlying depts. of bot. (at the Royal Botanic Garden) and forestry (in George Sq.) will shortly join the other sci. depts. at the King's Bldgs.

**LIBRARY.** Founded in 1582; about 800,000 vols., 35,000 MSS. The MSS. incl. the Laing MSS. and charters (chiefly Scottish), Arabic and Persian MSS. and western lit., scientific and med. MSS. Important spec. book collections are the Drummond of Hawthornden (16th-cent. lit.), Halliwell-Phillips (Shakespeare) and reformation. The libr. incl. 70 fac. & dept. libraries, most important being central med. libr., Reid music libr. and law section. New Coll. libr. (250,000 vols.) is on loan from Church of Scotland. Publ. catalogues of univ. library see *Printed Books* (3 vols., 1913-23). *Long Charters* (1899), *Western Medieval MSS.* (1916), *Arabic & Persian MSS.* (1925) and *Music* (up to 1850) (1941).

**THE LABORATORIES** are especially well equipped for res. in anat., anthropol., bacteriol., chem. (the labs. at King's Bldgs. have accomm. for about 400 students), geol., mining, engin. (notably hydraulics, strength of materials, electri. engin.), mat. med., pathol., phys., physiol. & psychol., pub. health. The Jane Fendley Thomson comm. lab. facilitates the training of BCom students in practical business methods. The univ. has a table at the Millport marina sta. 'The Tate Inst.,

opened in 1955, provides facilities for res. in math. phys.

**MUSEUM.** Nat. philos., fine art, geol., nat. hist., chem., for., agric., entomol. and tor. zool. (Waterhouse collection of coleoptera), anat. (founded with the Manro collection in 1800, numerous specimens of cetacea and human crania), physiol., nat. med. (notable collections of medicinal and food substances, incl. those of Duncan and Christison), forensic med., pathol., surg., obstet. (Sampson collection), music and musical instruments. The prof. of astron. is astronomer royal for Scotland and gives practical courses at the Royal Observatory.

**HOSPITALS.** Royal Infirmary adjoining the univ. provides over 1000 beds for clin. teaching; Children's, Maternity and Fever Hosps., Royal Mental H., Royal Victoria H. for Tuberculosis, and Northern Group Hosps.

**SCH. OF APPL. DYNAMICS.** In addn. to carrying out res. the sch. offers courses of instrn. leading to the dipl. in appl. dynamics. Hd. of sch. — .. ..

**SCH. OF SCOTTISH STUDIES.** The res. staff of the sch. is engaged on the recording and study of folk-lore, folk-tale, folk-song and music, material culture, place names and the soc. structure of rural communities. Limited accomm. is available for postgrad. res. students pursuing these subjs. Dir.—J. R. S. Megaw, BA Camb., PSA.

**SCH. OF APPL. LINGUISTICS.** The primary objects of the sch. are to conduct res. and to provide experienced overseas teachers, particularly those who are actively concerned with the control of Engl. teaching policy and the trg. of teachers, with an intensive course in general and appl. linguistics, phonetics, educat., psychol. and the methodol. of lang. teaching, and in methods of res. in these fields. The res. programme of the sch. includes fundamental work in relevant aspects of general linguistics, psycholinguistics and phonetics as well as more immediately applicable res. on particular problems of Engl. teaching methodol. Dir.—J. C. Catford, BA Lond.

**UNIVERSITY THEATRE.** One floor of Adam House, the univ.'s exam. halls which were opened in 1955, is equipped as a theatre.

**ADMISSION.** See Appendix III.

**FINAL DEGREES.** 3 yrs.—MA (ord.), BCom, LL.B., BSc (ord.) in pure sci., engin., for., 4 yrs.—MA (hons.), BSc (ord.) in agric., chem. technol., mining, BSc (hons.) in pure sci., chem. technol., engin., for., mining, BMus (if not exempted from 1st yr.), LL.B. (hons.); 5 yrs.—BSc (hons.) in agric., BArch, BDS, BMus (hons.) (if not exempted from 1st yr.), BVM&S, 6 yrs.—MB ChB.

MA hons. may be taken in: archaeol., Celtic studies, classics, econ. sci., Engl. lang. & lit., fine art, French lang. & lit., geog., hist., maths. & nat. philos., mental philos., mod. langs. (Arabic, French, German, Italian, Persian, Russian,

Spanish, Turkish), psychol., Sanskrit, semiotic langs., Scottish hist. studies, soc. anthropol.

MA (ord.) may be combined with course of study & trg. leading to a dipl. in nursing studies of R.G.N. for Scotland.

BSc hons. in pure sci. may be taken in: anat., anthropol., bacteriol., biochem., bot. (bot. with zool. or bot. with genetics, or zool. with genetics, or physiol. with genetics, or bacteriol. with zool., or bacteriol. with chem.), bot. chem., genetics, geol., mathl. phys., mathl. sci. (maths. with phys. or maths. with mathl. phys.) (state and theoret. astron. may be incl. in this sch.), nat. sci. (bot. with zool. or zool. with geol.), or maths. with genetics), pathol., pharmacol., phys. sci. (phys. with chem., or phys. with geol., or chem. with geol.), phys., physiol., psychol., zool.

**HIGHER DEGREES.** 2 yrs.—MArch, MSc (1 yr. for hons. grads. of Edin.); PhD 3 yrs.—BED, BD. By presentation of thesis (with yrs. after graduation): MD, MDS (2 yrs.); DMus, DVM&S (3 yrs.); ChM, DLat, DSc (5 yrs.); LLD (7 yrs.).

**HONORARY DEGREES.** MA, LL.D., DD, DMus, DLat, DSc.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Admin. law & practice, 1 yr.—open to grads. of a British univ. or other recog. univ. and to those who have reached a similar standard. African studies, 1 yr.—open to grads. whose previous studies and experience form a suitable pattern. Animal genetics, 1 yr.—open to hons. grads. in a biol. subg. or in maths. of this or another univ. Appl. dynamics, 1 yr.—open to hons. grads. in engin., maths. or phys. Appl. linguistics, 1 yr.—open to grads. with at least 3 yrs.' experience in the teaching of Engl. as a second lang., or in the teaching of other langs. Bot. (bot. physiol. and zool.), 1 yr.—open to hons. grads. in res. of this or another approved univ. Biophysics, 1 yr.—open to grads. with hons. in sci. or grade in med. Chem. pharmacol., 1 yr.—open to hons. grads. in chem. and ARI Co. Civic design, 1 yr. for archit. grads., 2 yrs. for other grads. Clin. psychol., 3 yrs.—open to grads. with hons. degree in psychol. or qualif. recognized as equivalent by the British Psychological Soc. Educ.—open to persons who have attended a course of professional trg. or have had at least 3 yrs' experience as a teacher, and have completed a graduation course in arts or sci., the dipl. is granted on completion of univ. courses (1 yr.) and passing exams. in psychol., theory & hist. of educn., and modern educn. systems & problems. Electronics and radio, 1 yr.—open to hons. grads. in electr. engin., maths. or phys. of this or another approved univ. Engl. studies, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. For., 1 yr.—open to grads. in for. of an approved univ. other than Edinburgh. General linguistics, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. Geog., 1 yr.—open to hons. grads. in geog. and to those

who have reached a similar standard. Landscape archit., 1 yr.—open to grads. or persons with qualifs. approved by fac. of arts. Management studies, 1 yr.—open to grads. or persons with qualifs. approved by fac. of arts (previous managerial experience most desirable). Medical services admin., 1 yr.—open to grads. Palaeog. & manuscript studies, 1 yr.—open to grads. or persons whose qualifs. are approved by the fac. of arts. Phonetics—open to grads. of the univ. and to those who have reached a similar standard. Islamic studies, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. Pub. health (1 acid yr.), radio-diag. (18 mos.), radiotherapy (2 yrs.), trop. med. & hyg. (6 mos.)—open to grads. in med. of the univ. and others holding corresp. degrees or registrable qualifs. Psychiatry—new regns. are under consideration. Regional planning, 1 yr.—open to grads. whose previous studies form a suitable prelim. try Rural sci., 1 yr.—open to hons. grads. in sci. or econ., or ordinary grads. in agric. of this or any other approved univ. Soc. anthropol., 1 yr.—open to grads. or persons possessing qualifs. approved by the fac. of arts. Soc. study, not less than 1 yr.—open to grads. of British or other approved univs. with certain restrictions as to subjects taken for degree. Trop. vet. med., 6 mos.—open to grads. in vet. med. & surg. Vet. state med., 1 yr.—open to grads. in vet. med. & surg.

**CERTIFICATES.** Educat. studies, 1 yr.—open to non-grads. holding a Scottish teacher's cert. or a teacher's cert. judged by the bd. of studies to be of equal standing. Med. soc. work, 1 yr.—open to persons over 21 yrs. of age who hold a soc. study degree, dipl. or cert. Nursing studies (advanced nursing educn. for nurse tutors), 2 yrs.; nursing studies (advanced nursing admin. for nurse administrators), 1 yr.—open to registered general nurses and to grads. of approved univs. who have the necessary nursing qualifs. Psychiatric soc. work, 2 yrs.—open to persons who hold a soc. study dipl. or cert. or degree in sociol. Pub. admin., 2 yrs.—open to persons whose educn. is equivalent to univ. entrance standard. Soc. study, 2 yrs.—open to persons whose educn. is equivalent to univ. entrance standard. Child care, 1 yr.—open to persons who hold soc. study degree, dipl. or cert.

**POSTGRADUATE TRAINING** for med. grads. is organized by the Edinburgh Postgrad. Bd. for Med. Particulars of courses, etc., may be obtained from the dir. of postgrad. studies in med., Surgeons' Hall, Nicolson St., Edinburgh, 8. The postgrad. sch. of theol. issues a detailed list of courses. Grads. contemplating res. should apply to the deans.

**FEES.** Composite fee: £5. Annual fees (incl. matric., tuition and exam. fees). Arts, div., law and musico, £60; archit., sci., £75; med. (incl. dent and vet. med.), £75. Dipl., soc. study, £65; civic design, landscape archit., clin. psychol., appl. linguistics, £75; African studies, Engl.

studies, geog., general linguistics, management studies, palaeog. & manuscript studies, phonetics, Islamic studies, soc. anthropol., educn., £60; admin. law & practice, £60; agric. sci., animal genetics, appl. dynamics, appl. linguistics, biol., biophys., electronics & radio, chem. pharmacol., for, DTVM, DVSM, trop. med. & hyg., £75; pub. health, radio-diag., radiotherapy, medical services admin., £90, psychiatry, £100. Certs. (annual fees): nursing studies, psychiatric soc. work, med. soc. work, educn. studies, pub. admin., £60; soc. studies, £65. Lab. deposits and fees for late enrolment payable in addn. Higher degree exam. fees (figures in brackets relate to any re-exam.): DSc, LL.D., DLitt, DMus, £45; ChM, DVM&S, £30 (£10 per section); MD, MDS, £30 (£10), MSc and PhD, £60 p.a. (£75 p.a. if lab. facilities used). Exam. fee is incl. in annual fee; re-exam. PhD, £15; MSc, £10.

**ACADEMIC YEAR.** Oct. to June. 3 terms of 10 wks. each (except for div., which ends 3rd wk. in May).

**UNIVERSITY EXTENSION, ETC.** There is an adult educn. cttee, which arranges courses of lectures in the south-east of Scotland. The univ. is now represented on the advisory cttee. for the management of the tutorial classes for adults instituted by the Edinburgh educn. authority, in co-operation with the Edinburgh W.E.A.

**VACATION COURSES.** Summer classes (4 wks.) for teachers are held during vacation, the lecturers being drawn mainly from the univ. staff. Certs. gained at the courses qualify for endorsement on teachers' certs. An annual 6 wks. residential summer sch. is held for American, Commonwealth and European students (grad. or sr. undergrad.) as part of a programme arranged jily with other univs. The jil. programme usually includes courses in hist., lit. and philos.

**EXTRA-MURAL WORK** (see also 'Teaching Staff', above). Classes conducted by the Edinburgh W.E.A. meet in the univ. bldgs. A univ. extra-mural cttee. organizes courses of lectures in the south-east area of Scotland.

**ENTRANCE BURSARIES AND SCHOLARSHIPS.** At annual entrance bursary competition, bursaries and scholps. valued up to £100 p.a. are available for award in the facs. of arts, sci., med. and law.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 910.

**APPOINTMENTS COMMITTEE.** Sec., A. G. Acaster, MA, 44 George Sq. (tel. Newington 6207). The cttee. includes reps. from the univ., industry, commerce and indust. liaison organizations. Between 600 and 700 students are assisted each yr. to find suitable employment.

**EDINBURGH UNIV. CLUB OF LONDON.** Sec.: Dr. B. Williamson, 40 Queen Anne St., W.1.

**HALLS OF RESIDENCE, ETC.** (For wardens, see 'Admns. and Other Staff', above) For men:

Cowan House, George Square (tel. Newington 5956), accomm. for about 100 students, £39 to £46.10s per term; Salisbury Green, Dalkeith Rd. (tel. Newington 1469), accomm. for 45 students, £27.10s to £42.10s per term; Holland House, Salisbury Green, Dalkeith Rd. (tel. Newington 6656), accomm. for 140 students, £135 to £160.7s for 3 terms; Univ. Residence for Midwifery Students, Chalmers St. (tel. Fountainbridge 1064), £3.12s.6d to £4 per week; University Settlement (tel. Newington 3762) has study-bedrooms for 5 male students at Cameron House, Prestonfield (tel. Newington 3762), £4.10s per week 6 months' notice generally necessary. Various 'student houses' (furnished accomm. with cooking facilities), 37s 6d to 42s 6d. per week. For women, 5 hostels at Craigmillar Park, East Suffolk Rd. (tel. Newington 1262), £144 for 3 terms; Mason Hall, 31 and 33 George Square and annexes (tel. Newington 1211), £144 for 3 terms; St. Leonard's Hall, Park Rd. (tel. Newington 1459), accomm. for about 45 students, £37.10s to £42.10s per term. Various 'student houses' (furnished accomm. with cooking facilities), 37s 6d to 42s 6d. per week.

**UNIVERSITY MILITARY AND AIR FORMATIONS**  
The Univ. trig. corps is organized in six sub-units of the following arms: artillery; engineers; elect. engineers; signalers; intelligence; and infantry. 'The primary object of the trig is to develop leadership qualities. Students are trained for direct commissions in the regular army as well as for commissioned rank in the territorial army and reserve. The contingent is fully equipped with arms and transport. There is also a thriving unit of the Women's Royal Army Corps with a similar object of enabling grads. to obtain commissions.

The Univ. air squadron is an R.A.F. unit which gives elementary flying trig. to students. Members are attached into R.A.F.V.R. as officer cadets. Membership normally lasts for 3 yrs. The syllabus covers ground lectures and about 150 hrs. of flying trig., which follows R.A.F. basic course. Adjutant: 16 Buccleuch Place, Edinburgh, 8.

**UNIVERSITY HEALTH SERVICE.** The Univ. provides facilities for routine med. exams for each 1st-yr. student, and radiol. exams. of chest for all students annually. It also provides a consultative and domiciliary med. service with sp. hosp. facilities for treatment of sick students. This dept. works in the closest liaison with the student accomm. and welfare office and the phys. educn. dept.

**UNIVERSITY ATHLETIC FACILITIES.** Facilities

for playing of most games. All sections of the athletic club, of which shinty is the oldest, are run by student cities. Separate athletic clubs for men and women. Up-to-date dept. of phys. educn.

**UNIVERSITY UNION.** Open to all male matriculated students, grads. of the Univ. members of senatus and court, and members of staff. Debating hall, dining-room, library, reading and writing room, etc. The Univ. Women's Union, 53 George Sq., provides a dining-hall, library, study rooms and temp. overnight accomm.

**UNIVERSITY COMMON ROOMS.** Univ. staff club provides club facilities for all teaching and sr. admin. staff. Students' refectory provides a full meal service incl. trg. meals. The jr. common rm., old coll., provides a convenient meeting place and snack-bar service for undergrads. The King's Bldg. common rm. provides club and recreation facilities, incl. gymnasium, badminton and squash courts.

**PUBLICATIONS.** *Calendar* (Sept.), 12s 6d; *Gazette* (4 issues per session), *Prætor*, & *Degree Exam. Papers* (May and July), 5d to 2s a set (James Thin, 55 South Bridge); *Facilities for Advanced Study and Res.*, free, on application; *Students' Handbook* issued by the students' representative council.

*Histories of the Univ.* (all o.p.): A. Bower, *History of the University*, chiefly compiled from original papers and records never before published, 3 vols., Edin., 1817-30; A. Dalziel (ed. by D. Laing), with a memoir of the author (by C. Innes), *History of the University of Edinburgh*, 3 vols., Edin., 1862; Sir Alex. Grant, *Story of the Univ. during its first 300 yrs.*, 2 vols., London, 1884; by various contributors, ed. by A. Logan Turner, *History of the Univ. of Edinburgh, 1883-1933*, Edin., 1933. *General Council Register, 1901* (Thin, 10s).

Unofficial publications: *The Student* (fortnightly), *Gambit* (termly), both issued by S.R.C.; *Synopsis* (termly).

**UNIVERSITY PRESS.** Instituted by the Univ. court in 1945 and administered by a combined cttee. of court and senatus which controls the general policy and selects MSS. for publication. The main object of the press, rendered possible by bequests applied for the purpose, is the publication in the best traditions of Scottish typography and book-production, of works of academic merit which cannot be produced on a comm. basis owing to their restricted appeal and may incur a loss, but the cttee. are prepared to publish works of wider appeal, though still of literary merit, which will help to offset any such loss. Sec.—A. R. Turnbull, MA.

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Nuffield Foundation, £200,000 for bldg. transplantation unit, £69,150 for fibroblast res., £11,000 for postgrad. med. teaching; Carnegie Trust, £85,500 recur-

rent grant, £72,000 capital grant for 1962-67; Wellcome Trust, £50,000 for bldg. for eugenetics res., D.S.I.R., £43,210 for selmol. res., £10,107 for res. in boundary layers; Fleming Memorial



Fund, £13,000 for res. in bacteriol., U.S. dept. of agric., £23,650 for res. in chem., late Prof. J. Cameron, £16,382 for sch. in med.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*. vet. field stn., med. extn (1st phase). *Approaching completion*: univ. union extn.

NEW CHAIRS. Chair of Italian (M. M. Rossi); chem. of vet. physiol. (A. Iggo).

RESIGNATURES. Prof. N. M. Dott (neurol. surg.).

RESIGNATIONS. Prof. Sir Derrick Dunlop (therapeutics), Prof. A. T. Peacock (econ. sci.), to York.

DEATHS. Prof. M. L. Anderson (forestry), Emer. Principal W. A. Curtis (div.); Emer. Prof. H. H. Macdonald (conveyancing); G. H. Wallaceton (lectr., mathl. phys.), J. L. Harrison (lectr., forestry), I. G. Andrew (lectr., Engl.), W. A. Liston (obstet. & gynaeol.).

HONORARY DEGREES. DD—R. D. MacLennan, formerly prof. of philos. and moral philos., McGill; J. F. McLuskey, minister at St. Columba's Church of Scotland, London; W. Stewart, principal of Serampore Coll. LLD—M. Ansel, sec. gen. of French compar. lit. centre; Sir Stanley Davidson, formerly prof. of med.; Sir John Greig Dunbar, lord provost of city of Edinburgh; the Earl of Home; J. K. Nyerere, formerly prime minister of Tanganyika; R. M. Titmuss, prof. of soc. admin., Lond.; Lord Todd of Trumpton. DLitt—E. R. Dodds, formerly prof. of Greek, Oxon.; V. H. Galbraith, formerly regius prof., med. hist., Oxon. MA—N. E. Condon, chief technician, dept. of pharm.; A. E. Truckell, curator of museum, Dumfries.

#### Statistics

##### STUDENT NUMBERS, 1961-62

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	4258	1041
Women . . .	2008	202
Total . . .	6266	1243

Distribution by Faculties. *Arts*, 2012; *div.*, 237; *med.* (incl. dent. and vet. med.), 2065; *law*, 250; *nurs.*, 43; *sci.* (incl. technol., agric. and forestry), 2002. Total: 7509.

*Included in the figures above are*—

Postgraduate students, 1494 (incl. 542 studying for higher degrees).

New admissions, 1615.

Students from other countries, 1357 (Countries from which largest numbers came: India, 275; U.S.A., 122; Nigeria, 75; Pakistan, 59; Egypt, 53; Germany, 46; Australia, 42).

DEGREES AWARDED (1960-61). *Arts*: MA, 276; MA hons., 188; BCom, 22; BEd, 2; BArch, 4; PhD, 22; DLitt, 2; Div., BD, 10; PhD, 11; Law: BL, 16; LLB, 27; Med.: BDS, 45; BVM&S, 43; MB ChB, 121; PhD, 12; DVM&S, 1; MD, 8; *Mus.*: BMus, 9; DMus, 1. *Sci.* (incl. agric., engin., mining, chem. technol., forestry): BSc, 159; BSc hons., 150; MSc, 19; PhD, 51.

DIPLOMAS AWARDED (1960-61). *Arts*: educn., 100; soc. study, 11; Engl. studies, 2; appl. linguistics, 10; Islamic studies, 3; gen. linguistics, 3; phonetics, 3; soc. anthropol., 1; palaeog., 1; clin. psychol., 4; management studies, 6; Law: admin. law, 1; Med.: trop. vet. med., 6; vet. state med., 6; pub. health, 17; trop. med. & hyg., 16; med. radiodiag., 5; psychiatry, 5; med. services admin., 9. *Sci.*: animal genetics, 10; biol., 2; biophys., 3; forestry, 1; appl. dynamics, 3; electronics & radio, 1.

CERTIFICATES AWARDED (1960-61). *Arts*: educn. studies, 2; soc. study, 20; psychiatric soc. work, 10; med. soc. work, 7; child care, 4; nursing studies, 11; pub. admin., 6; actuarial maths., 1.

# UNIVERSITY OF GLASGOW\*

Founded 1451

Postal Address: Glasgow, W 2, Scotland

Telephone: Glasgow, Western 8855

CHANCELLOR—The Rt. Hon. LORD ROYD OM of BIRCHIN, DSO, MC, Hon. LLD *St And*, DAGr *Uppala*, MA MD DSc, FRSE, FRCSI

VICE-CHANCELLOR AND PRINCIPAL—C H WILSON, MA *Oxon* & *Glas*, Hon. LLD *Law* & *Glas*.

RECTOR—Chief A. J. LUTELL

DEAN OF FACULTIES—Emeritus Professor J. D. MACKIE, CBE, MC, MA *Oxon*, Hon. LLD *St And* & *Glas*

SECRETARY OF THE UNIVERSITY COURT AND REGISTRAR—R. T. HUTCHINSON, OBE, JP, MA PhD

CLERK OF SENATE—Professor C. J. FORDYCE, Hon. LLD *St And*, MA *Oxon* & *Glas*.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—R. O. MACKENZIE, MA

CLERK OF THE GENERAL COUNCIL—T. R. MACNAUGHTAN, MA LLB, CA

## TEACHING STAFF

[† = Part-Time]

### Accountancy

Browning, R., MA LLB, CA  
Watson, F. M., MA, CA  
Smith, W., CA  
Stevenson, J. B., CA  
MacLennan, A. D., B.L., CA  
Cameron, W. D. B., CA  
Scully, R. M., CA

Prof.  
† Lectr.  
† Lectr.  
† Asst.  
† Asst.  
† Asst.  
† Asst.

Nagy, Mrs. Ildiko, BSc *Bud*.  
McIntosh, Avril M. C.

Res. Asst.  
Med. Artist

### Ancient History

Burn, A. R., MA *Oxon*

Sr. Lectr.

### Arabic and Islamic Studies

Tringham, Rev. J. S., MA *Oxon*,  
DLitt

Reader  
Asst.

Mirza, N. A., BA *Leid*

Lectr.

### Archaeology

Fairhurst, H., MA *Leid*, PhD

(Historical Geog.) Sr. Lectr.

Corcoran, J. X. W. F., MA PhD *Manc*,  
PSA

Lectr.

Robertson, Anne S., MA

Dalrymple Lectr.

### African Studies

Price, T., MA *EdB*

Lectr.

### Agriculture (see also p 138a)

Hendrie, D. S., BSc  
Wylie, D. H., BSc  
Smart, A. B., BSc

Prof.  
St. Lectr.  
St. Lectr.

### Anatomy

Wyburn, G. M., MB ChB DSc Regus Prof.  
Bensch, F., MD *Strass*, DSc (Embryol.) Reader  
Wetzel, J. G., MB *Leid*, PhD Sr. Lectr.  
Young, A., TD, MA *Cambr*, MB ChB Lectr.  
Hally, A. D., MD Lectr.  
Clarke, J. A., MB ChB Lectr.  
Hutchison, J., MB ChB † Hem. Lectr.  
Hayward, A. F., BSc MB BS *Leid*, Asst.  
Gillespie, G., MB ChB Asst.  
Scott, R., MB ChB Asst.  
Smellie, Florence, MB ChB Asst.  
Sample, J. C., MB ChB Asst.  
Ballin, A. H., MB ChB Asst.  
Cosgrove, M. D., MB ChB Asst.

Art, see Hist. of Fine Art

### Astronomy

Sweet, P. A., MA PhD *Cambr*.  
Ovenden, M. W., MA *Cambr*, BSc  
PhD *Leid*.  
Roy, A. E., BSc PhD  
Green, R. M., BA *Oxon*.  
Hunter, R. B., BSc

Regus Prof.  
Lectr.  
Lectr.  
Asst.  
Res. Asst.

### Biochemistry

Davidson, J. N., MD DSc *Edin*, FRSE

Gardiner Prof.

\* Member of the Association of Universities of the British Commonwealth

Munro, H. N., DSc MB	Reader	Reed, R. J., BSc PhD Lond	Sr. Lectr.
Paul, J., MB PhD	Reader	Kent, A., MA BSc PhD	Sr Lectr
Smellie, R. M. S., BSc St. And., PhD		Goodwin, T. H., PhD Birm., DSc	Lectr.
	Sr. Lectr., Grievae Lectr.	Storrie, F. R., BSc PhD	Lectr.
Dawes, E. A., DSc PhD Leeds	Sr. Lectr.	McAlpine, Irene M., BSc PhD	Lectr.
Leaf, G., MSc PhD Manc.	Lectr.	Thomson, G., BSc PhD	Lectr.
Crosbie, G. W., BSc PhD Nott.	Lectr.	Clar, E., Drlng Drensdw	Lectr.
Thomson, R. Y., BSc PhD	Lectr.	Nascolias, G. H., BSc PhD Wales	Lectr.
Kear, H. M., BSc PhD	Lectr.	Eglinton, G., BSc PhD	Lectr.
Fleck, A., BSc MB ChB	Lectr.	Overton, K. H., BPharm BSc Lond., PhD	Lectr
Smith, J. A. B., DSc Lond., PhD Birm.		Sneeden, R. P. A., DPhil Oxon., BSc	
	[Hon. Lectr (on leave) Lectr.		
Burdon, R. H., BSc St. And., PhD	Asst	Grassie, N., BSc PhD Aberd., DSc	Lectr.
Pitts, J. D., BSc St. And.	Asst.	Sim, G. A., BSc PhD	Lectr.
Ribbons, D. W., BSc PhD	Asst.	Harris, G. S., BSc PhD	Lectr.
Cameron, D. R. S.	Res. Technologist	Dunsmore, Helen S., BSc PhD	Lectr

## Botany

	Regius Prof		
Bond, G., PhD DSc (Plant Physiol.)	Reader		
Williams, S., DSc Manc., PhD	Sr Lectr.		
Hutchinson, S. A., TD, BSc PhD Birm.	Sr Lectr.		
Cass, Isabel M., MA BSc PhD	Lectr.		
Conway, Mrs. Elise, BSc PhD Loo.	Lectr		
Crundwell, A. C., BA Oxon.	Lectr		
Ribbons, B. W., BSc Lond., FLS	Lectr.		
Berrie, A. M. M., BSc PhD	Lectr.		
Scott, G. D., BSc PhD	Lectr.		
Elliott, C. G., MSc Trin., PhD Camb.	Lectr.		
Brett, D. W., BSc Lond.	Lectr.		
Reid, R. D., OBE	[Hon. Lectr		
Dick, M. W., BSc PhD, FLS	Asst.		

## Celtic

	Prof.		
Howells, D. G., BA Wales	Lectr.		
MacDonald, K. D., BA Camb., MA	Asst.		

## Chemistry, see also Biochem.

Raphael, R. A., PhD DSc Lond., FRS			
	Regius Prof.		
Robertson, J. M., CBE, MA PhD DSc, FRS	Gardiner Prof.		
Cruckshank, D. W. J., BSc(Eng) Lond., MA ScD Camb., PhD Leeds			
	Joseph Black Prof.		
Dawson, I. M., PhD DSc (Surface C & Electron Microscopy)			
	Reader		
Bell, J., PhD DSc, FRIC			
	Sr. Lectr., Asst. Dir. of Chem. Labs.		
Gibson, D. T., MSc Belf., PhD Lond., DSc (Med. Students)	Sr Lectr.		
Mitchell, S. T. R. S., DSc PhD (Phys. C.)	Sr. Lectr.		
Speckman, J. C., DSc PhD Sheff.	Sr Lectr.		
Loudon, J. D., PhD DSc	Sr Lectr.		
Rees, W. R., BSc Wales, MA PhD Camb.	Sr. Lectr		
Brand, J. C. D., DSc PhD Lond.	Sr. Lectr.		
Payne, D. S., BSc Lond., PhD Camb.	Sr. Lectr.		
Buchanan, G. L., BSc PhD	Sr. Lectr.		
Thomson, S. J., BSc PhD	Sr Lectr.		

## Classics, see Greek, and Latin

## Computing Laboratory

Gilles, D. C., BSc PhD Lond.	Dir.
Leach, J., MA Camb.	Lectr.
Mathkovits, G., BEng Leo	Asst.
Simpson, Maura L.	Res. Asst.
Coast, P., BSc	Res. Asst.
Allison, A. C., BSc Belf	Res. Asst
Ogden, J. A., BSc Wales	Res. Asst.

## Dentistry, see Medicine, below

## Divinity, see also Hebrew

Smith, Rev. R. G., MA BD Edin. Primarius Prof.	
Macgregor, Rev. G. H. C., MA DD Camb., Hon. DD Edin., DLitt (Bibl. Crit.)	Prof.
Poster, Rev. J., MA Birm., Hon. DD Aberd. (Eccles. Hist.)	Prof.
Henderson, Rev. I., MA Hon. DD Edin. (Systematic Theol.)	Prof.
Barclay, Rev. W., Hon. DD Edin., MA (N.T.)	Sr. Lectr.

Mechie, Rev. S., MA Hon. DD *Edin.*  
(Eccles. Hist.) Sr. Lectr.  
Squares, J. F. R., MA *Aberd.*, BD  
(Systematic Theol.) Asst

**Economics**, see Pol. Econ., and Soc. and  
Econ. Res.

### Education

Nisbet, S. D., MA BEd *Edin.* Prof.  
Richmond, W. K., MA Med *Durh.* Sr. Lectr.  
Clark, J., OBE, MA Lectr.  
Macintosh, Mrs. Mary, MA EdB †Lectr.

**Embryology**, see Anat.

**Engineering**, see below

### English Language and Literature

Alexander, P., MA, FBA Regius Prof.  
Samuels, M. L., MA *Oxon.* (Engl. Lang.) Prof.  
Purser, J. W. R., BA *Durh.* Sr. Lectr.  
Byrte, J. C., MA Sr. Lectr.  
Livingstone, T. C., MA Sr. Lectr.  
Arnott, J. F., TD, BLitt *Oxon.*, MA Sr. Lectr.  
Buchan, Hannah A., BLitt *Oxon.*, MA Lectr.  
Farish, J., MA Lectr.  
Salter, C. H., MA *Oxon.* Lectr.  
Morgan, E. G., MA Lectr.  
Rille, J. A. M., MA Lectr.  
Blakeley, L., MA PhD *Birm.* Lectr.  
Drew, K. P. A., MA *Oxon.* Lectr.  
Hornigman, E. A. J., BLitt *Oxon.*, MA Lectr.  
Gordon, Bridget M., BA BLitt *Oxon.* Lectr.  
Davies, Sarah H., MA *Wales*, PhD *Leid.* Asst.  
Crawford, Jane A., MA MLitt *Dub.* Asst.

**Fine Art**, see Hist. of Fine Art

### French

Boase, A. M., MA *Oxon.*, PhD *Cambr.*  
(on leave) Prof.  
Anderson, N. C., L&L Nancy, MA Sr. Lectr.  
Jones, S., MA *Waler*, PhD *Cambr.* Sr. Lectr.  
Class, A., L&L Paris, DLitt  
(Phonetics) St. Lectr.  
Heggie, D. R., BA PhD *Leid.* Sr. Lectr.  
Carr, J. L., BA *Leid.*, L&L Paris, PhD Lectr.  
Saunders, H. R., MA PhD Lectr.  
Barlow, C. F., BA *Leid.* Lectr.  
Lennox, F. W., BA PhD *Leid.* Lectr.  
Sutherland, G. M., DU Paris, MA Lectr.  
Taylor, E. G., MA *Leid.* Lectr.  
Zaddy, Zarn F., BA *Leid.* Lectr.  
McGowan, Margaret M., BA *R'g.*,  
PhD Lectr.  
Walker, I. H., MA *Leid.* Lectr.  
Falconer, A. G., MA *Leid.*,  
DU Aix-Marseille Lectr.  
Roy, D. H., MA *Waler* Lectr.  
Castor, G. B., MA PhD *Cambr.* Lectr.  
Hall, H. G., MA *Oxon.*, PhD *Yale* Lectr.  
Hodson, W. L. R., BA *Waler*, BLitt *Oxon.* Lectr.

Raphael, Mrs. Sylvia D., MA BLitt *Oxon.*  
Temp. Asst.  
Knowlson, J. R., BA *R'g.* Asst.  
Bell, W. M. L., BA *Oxon.* Asst.  
Knowlson, Mrs. Elizabeth S., BA  
PhD *R'g.* Temp. Asst.  
Moore, Gillian, BA Temp. Asst.  
Potter, J., L&L *Bordeaux* Asst.

### Genetics

Pontecurvo, G., DrAgr *Paris*, PhD *Edin.*,  
FRS Prof.  
Ranwick, J. H., MB ChB *St. And.*,  
PhD *Leid.*, MRCP St. Lectr.  
Cohen, B. L., BSc *Leid.* Lectr.  
Ferguson-Smith, M. A., MB ChB Lectr.  
Hopwood, D. A., MA PhD *Cambr.* Temp. Lectr.  
Aptiron, D., BSc *Jerusalem* Asst.  
Ellis, Patricia M., BSc Res. Asst.  
McNabb, Mrs. Joan, BSc Res. Asst.  
MacPherson, Sheila M. Res. Asst.

### Geography

Miller, R., MA PhD *Edin.* Prof.  
Fairhurst, H., MA *Leid.*, PhD Sr. Lectr.  
Halstead, C. A., BSc *Leid.* Lectr.  
Monley, H. A., MSc *Leid.* (on leave) Lectr.  
Tivy, Jey, BA BSc *Dub.*, PhD *Edin.* Lectr.  
Caird, J. B., MA *Edin.*, DU *Rennes* Lectr.  
Potter, G., MA *Aberd.* Lectr.  
Diamond, D. R., MA *Oxon.*, MSc *Chic.* Lectr.  
Keates, J. S., MA *Oxon.* Lectr.  
Marshall, Joan R., BSc PhD *Durh.* Asst.  
Rollinson, W., MA *Amer.* Asst.  
Forbes, Jenn., BA *Belf.*, MSc *Wisc.* Asst.  
Robertson, Mrs. Isabel, BSc Res. Asst.

### Geology

George, T. N., DSc *Waler*, PhD *Cambr.*  
D&S *Rennes*, FGS Prof.  
Bowes, D. R., MSc *Adel.*, PhD *Leid.*,  
FGS Sr. Lectr.  
Holgate, N., MSc PhD *Manch.*, FGS Lectr.  
Tremlett, W. E., BSc PhD *Leid.*, FGS Lectr.  
McLean, A. C., BSc PhD, FGS Lectr.  
Weedon, D. S., MA DPhil *Oxon.*, FGS Lectr.  
Powell, D. W., BSc PhD, FGS Lectr.  
Iardine, W. G., MSc *McG.*, PhD *Cambr.*,  
BSc, FGS Lectr.  
Lawson, J. D., BSc PhD *Manch.*, FGS Lectr.  
Whyte, F., BSc, FGS Asst.  
Wait, J. F., BSc *Edin.*, FGS Asst.  
Shields, K. A. G., BSc PhD *Durh.*, FGS Asst.  
Ingham, J. K., BSc PhD *Hull* Asst.

### German

Chambers, W. W., MBE, PhD *Munich*, L&L  
Paris & *Lille*, MA William Jacks Prof.  
Bettendorfe, H. T., MA *Birm.*, PhD *Leid.*  
Sr. Lectr.  
Guder, G., PhD *Edin.* Lectr.  
Rodger, Gillian, MA PhD Lectr.  
Gardner, W. R. W., MA PhD Lectr.

- McHaffie, Margaret A., MA PhD *Aberd.* Lectr.  
 Russ, C. A. H., MA *Leod.* Lectr.  
 Hayward-Jones, Sylvia, BA *Oxon.* Asst.  
 Tachipier, M. Asst.  
 Mertens, V. W. R. Asst.
- Greek**  
 Allan, D. J., MA *Oxon.*, FBA Prof.  
 Carnegie, J., MA *Aberd. & Camb.* Sr Lectr.  
 Chalk, H. H. O., MA *Oxon.* Lectr.  
 Garvie, A. F., MA *Edin.*, BA *Camb.* Lectr.  
 Richards, F. R., MA BMus *Oxon.*, Hon LLD †Temp Asst
- Hebrew and Semitic Languages**  
 Mullo Weir, Rev. C. J., MA BD Hon DD *Edin.*, DPhil *Oxon.* Prof.  
 Mauchline, Rev. J., Hon DD *Edin.*, MA BD (O. T. Lang & Lit.) Prof.  
 McKee, Rev. W., MA *St And.*, BD *Leod.*, PhD Lectr.
- Hispanic Studies**  
 Atkinson, W. C., MA *Belf.* Stevenson Prof.  
 McClelland, Ivy L., MA *Edin.* Sr Lectr.  
 Shaw, D. L., MA *Manc.*, PhD *Dub.* Lectr.  
 Jost, Beatrice, BA PhD *Leod.* Lectr.  
 Iglesias-Oleart, J., LicenD *Barcelona* Asst.
- History, see also Div. Hist. of Fine Art, Hist. of Scots Law**  
 Stones, E. L. G., MA *Oxon.* & *Glas.*, PhD, FSA (Mediev. H.) Prof.  
 Wright, E., MA *Durb.* & *Virginia* (Mod. H.) Prof.  
 Duncan, A. A. M., MA *Edin.*, BA *Oxon.* (Scottish H. & Lit.) Prof.  
 Cheekland, S. G., MA *Camb.*, MCom *Bur.*, PhD *Edin.* (Econ. H.) Prof.  
 Mowse, W. E., MA PhD *Camb.* Sr Lectr.  
 Corlett, J. F. R., BA *Lea.* Sr Lectr.  
 Tumelty, J. J., BA *Durb.*, PhD *Camb.* Lectr.  
 Brown, A. L., MA DPhil *Oxon.* Lectr.  
 Parsons, F. V., PhD BA *Leod.* Lectr.  
 Holmes, G. S., MA BLit *Oxon.* Lectr.  
 Webster, A. B., BA *Oxon.*, MA Lectr.  
 Parish, P. J., BA *Leod.* Lectr.  
 Gillard, D. R., PhD BA *Leod.* Lectr.  
 Scott, A. M., MC, MA *Aberd.* (Scottish Lit.) Lectr.  
 Gillilan, J. B. S., MA (Scottish H.) Lectr.  
 Bayers, J. A., MA (Econ. H.) Lectr.  
 Campbell, R. H., MA PhD (Econ. H.) Lectr.  
 Payne, P. L., BA PhD *Notr.* (Business H.) Colquhoun Lectr.  
 Kellert, J. R., MA *Camb.*, PhD *Leod.* (Econ. H.) Lectr.  
 Lerner, J. P., MA *Oxon.* Lectr.  
 Thomas, P. D. G., MA PhD *Wales* Lectr.  
 Larkin, M. J., MA PhD *Camb.* Lectr.  
 Thomson, J. A. F., MA *Edin.*, DPhil *Oxon.* Lectr.  
 Finlayson, G. B. A. M., BLit *Oxon.*, MA Lectr.
- Diets, B., BA PhD *Leod.* Lectr.  
 Cowan, I. B., MA PhD *Edin.* (Scottish H.) Lectr.  
 Steele, D., BA *Brist.* Asst.  
 Watts, M. R., BA *Oxon.* Asst.  
 Smith, A. G. R., MA Asst.  
 Davies, C. S. L., BA *Oxon.* (Econ. H.) Asst.  
 Allan, C. M., MA *Aberd.* (Econ. H.) Res. Asst.  
 Tyson, R. E., BA *Manc.* (Econ. H.) Res. Asst.
- History of Fine Art**  
 Young, A. M., Hon. MA Sr Lectr.  
 Miles, H. A. D., MA *Edin.* Lectr.  
 Irwin, D. G., MA *Oxon.*, PhD *Leod.* Asst.  
 Smith, M. Q., MA *Camb.* Asst.  
 Besse, Mrs. Gravel S., MA *Edin.* Res. Asst.  
 Irwin, Mrs. Francine, BA *Leod.* Temp. Res. Asst.
- Humanity, see Latin**
- Islamic Studies, see Arabic**
- Italian**  
 Meiklejohn, M. F. M., MA *Oxon.* Stevenson Prof.  
 MacKinnon, A. D., MA Lectr.  
 Key, G. R., MA PhD *Edin.* Lectr.  
 Devo, Giuliano Asst.
- Latin (Humanity)**  
 Farley, C. J., Hon. LLD *St And.*, MA *Oxon.* & *Glas.* (Humanity) Prof.  
 Malcolm, D. A., MA *Oxon.* & *Glas.* Sr Lectr.  
 Dilke, O. A. W., MA *Camb.* (on leave) Lectr.  
 Knott, Betty I., MA *Leod.* Lectr.  
 Kinsey, T. E., MA *Oxon.* Lectr.  
 Brown, P. M., BA *Oxon.* Lectr.  
 Christie, J. D., MA *Edin.* Lectr.  
 Cameron, A. D. E., BA *Oxon.* Asst.
- Law, see below**
- Linguistics, General**  
 Denison, N., MA PhD *Camb.* Lectr.
- Logic**  
 Hirst, R. J., MA *Oxon.* Prof.  
 Leclerc, I., BA *S.A.*, MA *Cape T.*, PhD *Leod.* Sr Lectr.  
 Russell, J. J., MA Lectr.  
 Toma, E., BSc *Leod.*, BA BPhil *Oxon.* Lectr.  
 Schaper, Eva, DrPhil *Mile.* (Aesthetic Philos.) Lectr.  
 Wallace, I. G., MA *Aberd.*, BPhil *Oxon.* Lectr.
- Mathematics**  
 Rankin, R. A., MA PhD ScD *Camb.* Prof.  
 Sneddon, I. N., MA *Camb.*, DSc Simson Prof.  
 Robb, R. A., MS *Mack.*, MA DSc Sr Lectr. (Stats) Mitchell Lectr.  
 Gillespie, R. P., PhD *Camb.*, MA BSc Sr Lectr.  
 Graham, T. S., PhD *Camb.*, MA Sr Lectr.  
 Martin, D., MA BSc PhD Sr Lectr.

Hunter, J., BA Camb., MA PhD	Sr. Lectr.
Robertson, A. P., BA PhD Camb., MA	Sr. Lectr.
McHarg, Elizabeth A., PhD Camb., MA	Lectr.
Geddes, A., BA Camb., BSc MA PhD	Lectr.
Munn, W. D., MA PhD	Lectr.
Britton, J. L., MSc Hall, PhD Manc.	Lectr.
Burke, J., MSc Cape T., PhD (on leave)	Lectr.
Moran, S., MSc PhD Lond.	(on leave) Lectr.
Summa, D. J., MA Dnb.	(on leave) Lectr.
Wallace, D. A. R., BSc St. And., PhD Manc.	Lectr.
Bradt, R. N., MA Kansas, PhD Stan.	Temp. Lectr.
Smith, C. P., MSc Lond.	Asst.
Robertson, Wendy J., BA PhD Camb.	Asst.
Dickie, R. M., MA DPhil Oxon.	Asst.
Howie, J. M., MA Aberd., DPhil Oxon.	Asst.
Wilson, R. M., BSc Belf.	Asst.
Brown, L. M., BSc	Asst.
Cross, R. W., MA St. And.	Asst.
Trichane, A. A., BA Leeds	Temp. Asst.

# Medicine and Surgery, see below

Metallurgy, etc., see Royal Coll. of Sci.  
and Technol., p. 1387

# Music

Orri, R., MA MusD Camb.	Gardner Prof.
Runner, F. W., BMus Durk., MA Camb.	Sr. Lectr., Cramb Lectr.
Elliott, K. J., MA St. And., MusB	PhD Camb.
Tilmouth, M., MA PhD Camb.	Lectr.

# Norwegian

Rossg, Miss Oddveig, CandPhil Oslo, MA	Lectr.
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# Philology, Romance

Zaddy, Zena P., BA Lond.	Asst. Lectr.
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# Philosophy, Moral, see also Logic, and Psychol.

MacLagan, W. G., MA Oxon., PhD Edin.	Prof.
Lemont, W. D., DPhil Oxon., MA	Sr. Lectr.
Dicks, J. S., MA BSc	Lectr.
Dawson, J. G., BA Oxon., PhL STB Rome	Lectr.
Dowrie, R. S., BPhil Oxon., MA	Lectr.
Horsburgh, H. J. N., BSc Lond., BLitt Oxon., MA	Lectr.

# Philosophy, Natural

Dee, P. I., CBE, MA Camb., FIP, FRS	Prof.
Gunn, J. C., MA Camb. & Glas	Cargill Prof.
McFauline, W., MA DSc, FIP	Sr. Lectr.
Rutherglen, J. G., BSc Lond., PhD	Sr. Lectr.
Lewis, G. M., MSc Lond., PhD	(on leave) Sr. Lectr.
Burton, W. K., MScTech Manc., PhD Brist.	Sr. Lectr.
Reid, J. M., MA	Sr. Lectr.
Wyllie, G. A. P., PhD Brist., BSc	Sr. Lectr.
McNeill, J., MA	Sr. Lectr.

Codroft, A. L., MA Camb.	Sr. Lectr.
Branden, B. H., BSc PhD Lond.	Sr. Lectr.
Giles, R., BSc	Lectr.
Guggenheimer, K. M., DrPhil Berl.	Lectr.
Dixon, D., BSc	Lectr.
Mykura, H., BSc Birm., PhD Lond.	Lectr.
Stewart, D. T., BSc PhD Belf.	Lectr.
Hughes, I. S., BSc PhD	Lectr.
Hogg, W. R., BSc PhD	Lectr.
Jack, W., BSc St. And., PhD	Lectr.
Drever, R. W. P., BSc PhD	Lectr.
Lang, E. W., MA PhD	Lectr.
Maiton, W. T., BSc PhD	Lectr.
Pursey, D. L., BSc PhD	Lectr.
Jennings, R., BSc	Lectr.
Hall, Daphne J., MSc Lond.	Lectr.
Gardner, R. B., MA BSc PhD Edin.	Lectr.
Turnbull, R. M., BSc St. And., PhD	Lectr.
Leahus, J. M. A., MSc Durk., PhD	Hon. Lectr.
Thomas, D. L., BSc Edin.	Asst.
Dougan, P. W., BSc	Asst.
Currie, W. M., BSc	Asst.
MacLeod, A. M., BSc	Asst.
Ledingham, K. W. D., BSc	Asst.
Lloyd, J. T., BSc	Res. Technologist

# Physics, see Philos., Nat.

# Physiology

Garry, R. C., MB ChB DSc, FRFSGlas	Regius Prof.
Garven, H. S. D., BSc MD, FRFSGlas	(Histol.) Reader
Weir, J. B. de V., MA BSc MB ChB	Sr. Lectr.
Roberts, T. D. M., BSc Lond., PhD Edin.	Sr. Lectr.
Lewis, J. J., MSc Manc.	(Exper. Pharmacol.) Sr. Lectr.
Boyd, I. A., BSc Lond., MB ChB PhD	Sr. Lectr.
Durbin, J. V. G. A., MA MB ChB Aberd., DSc	Sr. Lectr.
Gallispie, J. S., MB ChB PhD	Sr. Lectr.
McNaught, Ann B., MB ChB PhD	Lectr.
Holmes, M., MB ChB	Lectr.
MacKenna, B. R., MB ChB PhD	Lectr.
Lamb, J. F., BSc MB ChB PhD Edin.	Lectr.
Gaunt, F. W., BSc	Lectr.
Mun, T. C., BSc PhD	(Exper. Pharmacol.) Lectr.
Stewart, Ait Commodore W. K., CBE, AFC, BSc MB	(Aviation P.) Hon. Lectr.
Martin-Smith, M., MSc N.Z., PhD Roch.	(Chem. Pharmacol.) Hon. Lectr.
Munro, Mrs. Edith, MB ChB	Temp. Asst.
Forbes, W., MB ChB	Asst.
Mack, A. J., MB ChB	Asst.
Boyd, I. E., MB ChB	Asst.
Baird, J. R. C., BSc	(Exper. Pharmacol.) Asst.
Brown, I., BSc	(Exper. Pharmacol.) Asst.
McGuigan, J. A. S., BSc MB ChB	Asst.
Livingstone, S. D., MSc Zee.	(Exper. Pharmacol.) Asst.
Greig, J. R., BSc PhD	(Physiol. Electronics) Res. Asst.
Callender, R.	Medical Artist

**Political Economy**

- Wilson, T., OBE, MA Oxon., PhD Lond  
Adam Smith Prof.  
Gasman, M., DFC, BA Lev, MA Sr. Lectr.  
Meek, R. L., MA LLM NZ, PhD Camb  
Sr. Lectr.  
Orr, Mrs Sarah C., MA PhD  
Lectr.  
Siceman, J. F., MA St And & Mow  
Lectr.  
Houston, G. F. B., MA Edu, BLitt  
Lectr.  
Hunter, J. B. K., MA Edu  
Lectr.  
Gibb, E. B., MA  
Lectr.  
Garton, G. D., MA Law & Camb  
Lectr.  
MacBean, A. I., BPhil Oxon, MA  
(on leave) Lectr.  
Holmans, A. E., MA DPhil Oxon  
Lectr.  
Brent, R. W. L., BA Not  
Temp Lectr.  
Cameron, G. C., BA Durk  
Asst.  
Hall, B. T., MA Edu.  
Asst.  
Marshall, J. L., MA  
Temp. Asst.

**Politics (Political and Social Theory and Institutions)**

- Raphael, D. D., MA DPhil Oxon.  
Edward Caird Prof.  
Moodie, G. C., MA St And & Oxon  
(on leave) Sr. Lectr.  
Barbu, Z., PhD Chg  
Sr. Lectr.  
Lewis, I. M., BLitt DPhil Oxon, BSc  
(Soc. Anthropol.) Lectr.  
Lloyd-Jones, I. D., MA Camb.  
Lectr.  
Hoffman, J. D., MA Tar.  
Asst.  
Featheringham, P., MA  
Temp Asst

**Principles of Religion**

- Galloway, A. D., PhD Camb., MA BD  
Sr. Lectr.

**Psychology**

- Pickford, R. W., MA PhD Camb., DLitt Prof.  
Gardner, P. A. D., MA BSc EdB LLB  
Lectr.  
Weir, A. J., DPhil Oxon., MA  
Lectr.  
Scott, D. H., MA Camb., PhD Lond.  
Lectr.  
Green, M., MA  
Asst.

**Psychology, Industrial**

- Oakley, C. A., BSc EdB Lectr.

**Russian**

- Holtum, V. E. J., BA Lond. Sr. Lectr.  
Zekulin, G., IngComSci Prague, MA Lit Lectr.  
Forsyth, J., MA Edu Lectr.  
Birkeitt, Mrs Natalia Y. Asst.  
Caird, Shrena N. Asst.  
Pitcher, H. J., BA Oxon. Asst.

**Scottish History and Literature, see Hist****Slavonic and Eastern European Languages**

- Seukup, L., ThB Prague, PhD Edu.  
(Czechoslovakian) Lectr.  
Dabrowski, J., PhD Grawoy  
(Polish) Temp Lectr.

**Social and Economic Institutions, Soviet**

- Müller, J., MA Sheff. Lectr.  
Newth, J. A., BA Oxon Lectr.  
Schlesinger, R. A. J., DrRerPol Vienna,  
PhD Lond Lectr.

**Social and Economic Research**

- Robertson, D. J., MA (Appl. Econ.) Prof  
Parker, H. R., BA Lit  
(Urban Studies) Temp Sr Lectr  
Baird, R., MA LLB (Pub. Admin) Lectr.  
Needleman, L., MA Oxon  
(Urban Studies) Lectr.  
McCrone, R. G. L., MA Camb, MSc Wales  
(Appl. Econ.) Lectr  
Hunter, L. C., DPhil Oxon, MA  
(Appl. Econ.) Lectr  
Vereika, J., L&SEcon Grawoy, PhD Edu.  
(Econometrics) Lectr  
Reid, G. L., MA St And Asst.  
Swift, Beryl M., BSc(Soc) Lond. Asst.  
MacLennan, M. C., MA Asst.  
Clark, B. D., MA Lit Asst.  
Hughes, J. T., MA Temp Asst  
Ritchie, Margaret, MA Res Asst

**Social Psychology**

- Jahoda, G., MSc PhD Lond Sr Lectr  
Bowyer, Laura R., BSc Lond, MA EdB Lectr

**Social Study**

- Mack, J. A., MA Dur.  
Cleveland, Agnes R., BA Lond. Tutor

**Sociology**

- Hughes, J., DPhil Oxon, MA Lectr

**Spanish, see Hispanic Studies****Statistics**

- Robb, R. A., MS Mich, MA DSc  
Mitchell Lectr.

**Theology, see Div****Veterinary Medicine, see below****Zoology**

- Yonge, C. M., CBE, PhD DSc Edu.,  
Hon. DSc Brit, FRS Regius Prof.  
Robertson, J. D., PhD ScD Camb., BSc  
(Compar Physiol.) Reader  
Slack, H. D., BSc Lond, PhD Edu. Sr. Lectr  
Steedman, H. F., BSc PhD Brit Sr. Lectr.  
Barnett, S. A., MA Oxon. (Med.) Sr. Lectr.  
Hill, A. R., BSc PhD St And. (Agric) Sr. Lectr.  
Miller, Agnes E., MA PhD Lectr.  
Crawson, R. A., BSc Lond Lectr.  
Hopkins, C. A., BSc Lond, PhD Dub  
(on leave) (Vet.) Lectr.  
Hunter, W. D. R., PhD DSc, FLS Lectr.

Owen, G., DSc <i>Wales</i>	Lectr.	Orr, J., BSc PhD	Sr. Lectr.
Lawson, J. W. H., BSc <i>Land.</i>	PhD	Briggs, R. A., BSc PhD	Sr. Lectr.
Fraser, A., BSc PhD	(Entomol.) Lectr.	Morrison, D., BSc PhD	Sr. Lectr.
Covey, J. B., BA <i>Camb.</i>	(Agric.) Lectr.	Palmer, V. R., BSc	Sr. Lectr.
Dean, A. F. G., BSc <i>Land.</i> , DPhil <i>Oxon.</i>	Lectr.	Donaldson, R., MScTech <i>Mane.</i>	Sr. Lectr.
Dobson, R. M., MA <i>Camb.</i> , PhD <i>Land.</i>	Lectr.	Cameron, E. R., BSc	† Lectr.
	(Agric.) Lectr.	Curry, J. S., BSc <i>Land.</i>	Lectr.
Howden, J., MB BS <i>Durh.</i> , BSc <i>Oxon.</i> , PhD <i>Belf.</i>	Lectr.	Macdon, W. W., BSc	Lectr.
Lackey, K. H., DIC, BSc PhD <i>Land.</i>	Lectr.	Taylor, W. L., BSc	Lectr.
Scott, D. B. C., BSc <i>Aberd.</i> (on leave) Asst.		Ross, W., BSc	Lectr.
Usherwood, P. N. R., BSc <i>Wales</i> , PhD	Asst.	Nisbet, S. K., BSc <i>Birm.</i>	Lectr.
Charles, G. H., BSc PhD <i>Wales</i>	Asst.	MacKenzie, A. C., BSc <i>Land.</i> , MSc <i>M.I.T.</i>	Lectr.
Miller, P. J., BSc <i>Lev.</i>	Asst.	Hawcock, P., BSc <i>Mane.</i> , PhD <i>Camb.</i>	Lectr.
Walker, M., BSc <i>Durh.</i>	Asst.	Halcrow, R. M., BSc <i>Land.</i> , MSc <i>Birm.</i>	Lectr.
Elder, I. Y., BSc	Asst.	Burnside, B. M., BSc	Lectr.
Davies, P. S., BSc <i>Wales</i>	Asst.	Bogg, R. D., BSc	Lectr.
		Aynsley, P. W., BA <i>Camb.</i>	Lectr.
		MacCallum, N. R. L., BSc PhD	Lectr.
		Meikle, G., BSc	Temp. Lectr.
		Kerr, N. M., BSc	Asst.
		Fletcher, R., MSc <i>Mane.</i>	Asst.
		McNamee, D. F., BSc	Asst.
		Hill, R. C., BSc	Res. Asst.
		Le May, L., BSc	Res. Asst.
		Ray, A. K., BSc <i>Calc.</i> & <i>Glas.</i>	Res. Asst.
		Mervell, J. G., BSc	Res. Asst.
		Kerr, C. N., MS <i>Corn.</i> , BSc	Res. Asst.
		Hunter, I. M., BSc	Res. Asst.
		Peterson, A. N., BSc	Res. Asst.
		McIntyre, A. J.	Supt., Engin. Services

## ENGINEERING

## Aeronautics and Fluid Mechanics

Nonweiler, T. R. F., BSc <i>Mane.</i> , PhD <i>Belf.</i>	Mechan. Prof.		
Babister, A. W., MA <i>Oxon.</i> , PhD	Sr. Lectr.		
Thom, A. S., BSc PhD	Sr. Lectr.		
Cain, T. H., BSc <i>Land.</i>	Lectr.		
Tanner, P. H., BSc	Lectr.		
Wong, H. H. Y., BSc <i>Shanghai</i>	Lectr.		
Kellam, F. H., BSc <i>Edin.</i>	Lectr.		
Moore, A., BSc	Res. Asst.		
Price, D. A., MS <i>M.I.T.</i> , BSc	Res. Asst.		

## Engineering, Civil

Marshall, W. T., BSc PhD <i>Land.</i>	Regius Prof.		
Sutherland, H. B., SM <i>Harv.</i>	(Soil Mechanics) Reader		
Nelson, H. M., BSc <i>Land.</i>	Lectr.		
Arthur, P. D., BSc	Lectr.		
Lindsay, J. A., BSc	Lectr.		
McKenzie, R. D., BSc	Temp. Lectr.		
Smith, I. A., BSc	Lectr.		
Aitken, D. M., BSc	Asst.		
MacLeod, J. A., BSc	Asst.		

## Engineering, Electrical

Lamb, J., DSc PhD <i>Mane.</i>	James Watt Prof.		
Gordon, D. S., BSc <i>Edin.</i> , PhD	Sr. Lectr.		
Peard, T. R., BSc PhD <i>Land.</i>	Sr. Lectr.		
Shankland, J. H., BSc	Lectr.		
Collins, J. H., MSc <i>Land.</i>	Lectr.		
Gashua, O. K., BSc PhD	Lectr.		
Longlands, R. C., BSc <i>Land.</i>	Lectr.		
Barlow, A. J., BSc PhD <i>Land.</i>	Lectr.		
Harrison, G., BSc(Eng) <i>Land.</i>	Lectr.		
Hammons, T. J., BSc PhD <i>Land.</i>	Lectr.		
Lindon, P., BSc <i>Land.</i>	Asst.		
Cornell, A. W., BSc	Res. Asst.		
Hutchins, R.	Res. Technologist		

## Engineering, Mechanical

Snell, J., PhD DSc	James Watt Prof.		
MacLellan, G. D. S., MA PhD <i>Camb.</i>	Rankine Prof.		

## Engineering Production

Shankland, J. H., BSc	Louden Lectr.
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## Mining

Habberd, G., PhD	Dixon Prof.
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## Naval Architecture, including Marine

Engineering, see also Royal Coll. of Sci. and Technol., p. 1387

Coxon, J. F. C., DSc	John Elder Prof.
Livingstone, M.	Lectr.
Miller, N. S., BSc	Lectr.
Cameron, R. M., BSc	Lectr.
Buxton, I. L., BSc	Res. Asst.
Ferguson, A. M.	Supt., Testing Tank

## LAW

Walker, D. M., QC, PhD LL.D. <i>Edin.</i> , LL.B. <i>Land.</i> & <i>Glas.</i> , MA	Regius Prof.
Miller, I. P., LL.B. <i>Land.</i> , BL	Lectr.
Meston, M. C., JD <i>Cinc.</i> , MA LL.B. <i>Aberd.</i>	Lectr.
McRae, W., MA LL.B. (Mercantile Law)	Lectr.
Gow, A. M., MA LL.B. (Indust. Law)	Lectr.
Syme, A. C., MA LL.B. (Comm. Law)	Lectr.
Rodger, I. R., MBE, MA LL.B. (Comm. Law)	† Lectr.
Macintosh, J. T., MA LL.B.	† Asst.
Stewart, J. S., MA LL.B.	† Asst.
Malloy, D. B., MA LL.B.	† Asst.
Wright, T. A., MA LL.B.	† Asst.
Frisk, J., BL	† Asst.



**Administrative Law**

Miller, J. B. TD, MA LLB  
 Syre, A. C., MA LLB

†Lectr.  
 †Asst.

**Civil Law**

Thomas, J. A. C., MA LLB Camb. Douglas Prof.  
 Gordon, W. M., MA LLB *Aberd.* Lectr.  
 Lovat, L. S., BL †Asst.  
 Thomas, G. P., MA LLB †Asst.  
 Turpie, L. M., MA LLB †Asst.  
 Turpie, Mrs. Deirdre V., MA LLB †Asst.

**Constitutional Law**

Murdoch, J. D., TD, MA LLB †Lectr.  
 Davidson, F., MA LLB †Asst.  
 Murray, G. A., MA LLB †Asst.  
 Henderson, R. E., BL †Asst.

**Conveyancing**

Halliday, J. M., MA LLB Prof.  
 Donaldson, A. K., BL †Lectr.  
 Murray, S. M. †Asst.

**Evidence and Procedure**

Mellick, J., MA LLB †Lectr.  
 Coutts, T. G., MA LLB *Aberd.* †Asst.

**History of Scots Law**

Smith, J. I., MA LLB †Lectr.  
 McGhee, I. B., MA LLB †Asst.

**International Law, Public**

Neil, J. C., MA LLB †Lectr.  
 Macdonald, Mrs. Isabel L., MA BL †Asst.

**International Private Law**

Donaldson, A., MA LLB †Lectr.  
 Bain, N. B., BL †Asst.

**Jurisprudence**

Anton, E. A., MA LLB *Aberd.* Prof.  
 Young, J. N., MA Camb. Lectr.  
 Melver, M., MA LLB †Asst.  
 Weir, C. S., MA LLB †Asst.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.,  
 see above)

Fleming, C. M., MA MD, FRCPed, FRFPGlas  
 Dean of Fac. (Admin. Med.) Prof.

**Anaesthetics**

Porrater, A. C., MB ChB, FFARCS, FRFPGlas Reader  
 Nesbet, H. I. A., MB ChB *Edin.*, FFARCS Lectr.  
 Tandal, A., MB ChB, FFARCS †Hon. Lectr.  
 Pinkerton, H. H., MB ChB, FFARCS, FRFPGlas †Hon. Lectr.

**Bacteriology**

Howie, J. W., MD *Aberd.*, MRCP, FRFPGlas Gardiner Prof.  
 Lammiman, I. R. W., MD *Craigm.*, FRFPGlas Sr. Lectr.  
 Ives, J. C. J., MB ChB *Edin.*, FRFPGlas Sr. Lectr., Teaches Lectr.  
 Kyles, W. B., MB ChB Sr. Lectr.  
 Hutchison, J. G. P., MD *Leid.* Sr. Lectr.  
 Morrison, R. B., BSc PhD Sr. Lectr.  
 Gentles, J. C., BSc PhD (Med. Mycol.) Sr. Lectr.

Harper, Elizabeth M., BSc PhD Lectr.  
 Smith, D. D., MD Lectr.  
 Norris, J. R., BSc PhD *Leid.* Lectr.  
 McGeechie, J., MB ChB Lectr.  
 Scott, A. C., MB ChB Lectr.  
 Stark, J. M., MB ChB Lectr.  
 Gordon, J., BA Camb., MB ChB *Edin.* Lectr.  
 Bruce, L. G., DTM&H *Edin.*, MB ChB

DPH †Hon. Lectr.  
 Tinnis, J. E., BSc MB ChB DPH *Edin.* †Hon. Lectr.

Sommerville, R. G., MD †Hon. Lectr.  
 Fallon, R. J., BSc MD *Liv.* †Hon. Lectr.  
 Arthurhoost, J. P., BSc Asst.  
 Lund, Barbara M., BSc *Manch.*, MPharm *Not.*, PhD *Leid.* Asst.  
 Dawson, Christine O., BSc Res. Asst.

**Dentistry**

Atchison, J., BSc, FDSRCSEd (D. Surg.) Prof., Dir.  
 Gibson, W. M., MB ChB *St. And.*, FDSRCSEd (D. Prosthetics) Prof.  
 White, T. C., BSc, FDSRCSEd (Orthodontics) Prof.

Noble, H. W., PhD Sr. Lectr.  
 Ireland, J. Lectr.  
 McNeil, C. K., PhD, FDSRCSEd Lectr.  
 Thomson, J. C. Lectr.  
 McDougall, J. C. Lectr.  
 MacGivray, D. Lectr.  
 Carmichael, A. F., FDSRCSEd Lectr.  
 Nixon, G. S., PhD, FDSRCSEd Lectr.  
 Lunt, Dorothy A., MDS Lectr.  
 Kennedy, G. D. C., BDS Lectr.  
 McLundie, A. C., BDS Lectr.  
 Clyde, J. S., BDS, FDSRCSEd Lectr.  
 Hammond, J., BSc BDS Lectr.  
 Gilles, A. B., BDS Lectr.  
 Campbell, J., PhD, FDSRCSEd †Hon. Lectr.  
 Orr, J. A. †Hon. Lectr.  
 Gale, J. A. †Hon. Lectr.  
 Clark, H. A., PhD †Hon. Lectr.  
 Edwards, A. G. †Hon. Lectr.

**Dermatology**

Milne, J. A., MB ChB, MRCP Reader, McCall Anderson Lectr.  
 Harvey, G., MB ChB †Hon. Lectr.  
 Smith, Mary S., MD †Hon. Lectr.  
 Fergusson, A. G., MD, FRCPed, FRFPGlas †Hon. Lectr.

**Ear, Nose and Throat, Diseases of**

Christie, J. F., MB ChB, FRFPGlas	
Connell, E. A. M., MB ChB	†Hon. Lectr.
Watson, R. J., MC, TD, MB ChB	†Hon. Lectr.
Howie, T. O., MB ChB, FRFPGlas	†Hon. Lectr.
Land, F. T., MB ChB, FRFPGlas	†Hon. Lectr.
Dixon, J., MB BS Lond., FRCS	†Hon. Lectr.

**Eye, Diseases of the**

Ruddell, W. J. B., MD, FRFPGlas	
Steel, Janet F., MB ChB	Tennent Prof.
Tennent, J. N., BSc Lond., MB ChB, FRFPGlas	†Hon. Lectr.
Thomson, A. M. W., TD, MD, FRFPGlas	†Hon. Lectr.
Leshman, R., MD	†Hon. Lectr.
Peterson, M. W., MA MB ChB, FRCSed	†Hon. Lectr.
Smith, R. J. S., MB ChB Edin., FRCSed	†Hon. Lectr.
McWilliams, R. J., MB ChB, FRFPGlas	†Hon. Lectr.
Wood, R. H., MB ChB	Temp. Asst.
Donald, G.	Medical Artist

**Forensic Medicine and Medical Jurisprudence**

Imrie, J. A., MD, FRCSed, FRFPGlas	Regius Prof. Lectr.
Rentoul, E., MBE, MB ChB MA LLB	Lectr.
Weir, W. F., MB ChB	†Hon. Lectr.

**Infancy and Childhood, Diseases of**

Hutchison, J. H., OBE, MD, FRFPGlas	
FRCP	Samson Gammell Prof.
Dennison, W. M., MD, FRFPGlas	
Blockley, N. J., MChOrth Lond.	Bardley Lectr.
Arnell, G. C., MD, FRFPGlas	Bardley Lectr.
Macdonald, J. C., MB ChB, MRCPed	Leonard Goss Lectr.
Hemington, W., MB ChB DPH DCH, MRCPed, FRFPGlas	Lectr.
Wattie, Nora I., MB ChB Aberd., DPH	
Riley, I. D., BSc MD, FRFPGlas	†Hon. Lectr.
Leird, A. P., MB ChB	†Hon. Lectr.
Ferguson, C. A., MB ChB, FRCSed	†Hon. Lectr.
Shanks, R. A., MD, MRCP, FRFPGlas	†Hon. Lectr.
Giles, Margaret D., MD	Asst.

**Infectious Diseases**

Anderson, T., MD, FRCPed, FRFPGlas	Prof.
Landsman, Joan B., MB ChB, FRFPGlas	Lectr.
Stevenson, J., MB ChB, MRCPed, FRFPGlas	Lectr.

Lawson, J. H., MD DPH	†Hon. Lectr.
Rankin, A. L. K., MD DPH, FRFPGlas	†Hon. Lectr.

**Materia Medica, see also Med., Chm.**

Alstead, S., CBE, MD Lib., FRCP	Regius Prof.
Macanthur, J. G., MC, MB ChB Aberd., FRFPGlas	Sr Lectr., Pollak Lectr.
Fulton, W. F. M., BSc MD, MRCP	Sr Lectr.
Boyd, D. H. A., MB ChB Edin., MRCPed	Lectr.
Lewis, G. P., BSc MB ChB Wales, MRCPed	Lectr.
Thomson, T. J., MB ChB, MRCP, FRFPGlas	†Hon. Lectr.
Finlayson, Janet P., BSc MB ChB	Asst.

**Medical Radiology**

Walker, J. Z., MB ChB, FFR	†Hon. Lectr.
Pink, S. D. S., MD, FRFPGlas	†Hon. Lectr.

**Medicine**

McGurr, E. M., BSc MD, FRFPGlas	Muirhead Prof.
Douglas, A. S., BSc MD, FRCPed, FRFPGlas	Sr Lectr.
Kennedy, A. C., MD, FRCPed, FRFPGlas	Sr Lectr.
Watson, W. C., MD, MRCP, FRFPGlas	Lectr.
Rentoul, S., BSc MB ChB, MRCP	
McEwan, T., MD, FRFPGlas	†Hon. Lectr.

**Medicine, Clinical****Honorary Lecturers**

Imus, A. H., MD, FRFPGlas, FRCP	
Ossler, E. G., TD, MA Oxon., MB ChB, FRFPGlas, FRCP, FRCPed	
Wright, J. H., CBE, JP, MD, FRFPGlas, FRCPed	
McChesney, J. A. W., MB ChB, FRFPGlas	
Rennie, J. B., MD, FRFPGlas, FRCP	
Scott, L. D. W., JP, MD, FRFPGlas, FRCP	
Murray, I. M., MD, FRFPGlas, FRCPed	
Keri, J. D. O., MB ChB, MRCP, FRFPGlas	
Brown, A., MD, FRFPGlas, FRCPed	
Lazarus, S., MD, FRCP, FRFPGlas	
Procter, T. N., MD, FRFPGlas, FRCP	
Peel, A. A. F., DM BCh Oxon., FRCP, FRFPGlas	
Richards, R. L., MD Aberd., FRCPed	
Anderson, W. F., OBE, MD, FRFPGlas, MRCP	

**Medicine, Practice of**

Wayne, E. J., MSc MD PhD Lond., FRCP, FRFPGlas	Regius Prof.
Goldberg, A., MD Edin., MRCP, FRFPGlas	Sr Lectr.
Nordyn, B. E. C., MD Lond., MRCP	Sr Lectr.
Harrison, M. T., MD Belf., MRCP	Lectr.
Kourim, D. A., MD Athol	Temp. Lectr.

Gaylor, J. B., MA BSc MB ChB,  
FRFPGlas  
Cameron, A. J. V., MA MD  
FRCOG  
Fraser, K. H., DMSA *Edin*, MB ChB  
Hon. Lectr.

#### Obstetrics and Gynaecology

Anderson, D. F., MD, FRFPGlas,  
FRCOG  
Donald, I., MBE, BA Cape T,  
MD *Leid*, FRFPGlas, FRCOG  
(Midwifery) Regius Prof  
Macaskill, Sarah, MB ChB  
MacVicar, J., MD  
Armstrong, W. C., MB ChB, FRFPGlas,  
FRCOG  
Honorary Lecturers

McLennan, H. R., MD, FRFPGlas, FRCOG  
Sutherland, A. M., MD, FRFPGlas, FRCOG  
Hast, D. McK., MB ChB, FRFPGlas, FRCOG  
Murdoch, R., TD, MD, FRFPGlas, FRCOG

#### Orthopaedics

Barnes, R., BSc MB ChB *Manc*, FRCS,  
FRCSEd, FRFPGlas  
Stevens, J., MA MB BChir *Canb.*,  
FRCSEd, FRCS  
Petrick, J., MB ChB, FRCS  
Sillar, W., MC, BSc MB ChB, FRCSEd,  
FRFPGlas

#### Pediatrics, see Infancy and Childhood, Dis. ed

#### Pathological Biochemistry

Eaton, J. C., BSc MB ChB, FRIC  
Wilson, H. E. C., DSc MB, FRFPGlas  
Chambers, J. W., BSc MB ChB, FRIC,  
FRFPGlas  
Hendry, E. B., BSc PhD MB ChB *Edin.*,  
FRFPGlas  
Grant, J. K., BSc PhD *Edin.*, FRIC  
Anderson, I. A., MBE, BSc MD *Aberd.*  
Pitts, Mrs Janet A.

#### Pathology

Cappell, D. F., CBE, MD, FRFPGlas  
Symington, T., BSc MD, FRIC,  
FRFPGlas  
Hutchinson, H. E., MD, FRFPGlas  
Dick, J. C., MD, FRFPGlas  
Lennox, B., MD *Durb.*, PhD *Leid.*,  
MRCP, FRFPGlas  
Anderson, J. R., BSc MD *St. And.*  
Cruckshank, B., MD PhD *Edin.*,  
FRFPGlas  
Sandison, A. T., BSc MD *St. And.*  
Boyd, J. F., MD, MRCP  
Patrick, R. S., MB ChB DPH  
Goudie, R. B., MB ChB, MRCP  
Kennedy, S., MA MB ChB  
Duguid, W. P., MB ChB  
Adams, J. H., PhD *Leid.*, MB ChB

Beck, J. S., BSc MB ChB, FRFPGlas,  
MRCP  
Catto, Mary E., MB ChB  
McCallum, H. Morag, MB ChB  
Charles, D., MB BS *Leid.*  
Gibson, A. A. M., MB ChB *Edin.*,  
MRCP  
Lee, P. D., MB ChB *St. And.*  
Simpson, H. W., MD *Edin.*  
Walker, F., MB ChB  
Murray, D., BSc MB ChB  
Webb, J. L., MSc PhD *Manc*  
Cameron, J. M., MD  
Davis, W. B., BSc MD DPH  
Govan, A. D. T., MB ChB PhD,  
FRCPEd, FRCOG  
Pearce, P. R., MB BS *Leid.*,  
FRFPGlas  
Roberts, G. B. S., BSc MD  
Gray, Kathleen G., BSc  
Boyd, Elizabeth, BSc

#### Pathology of Diseases of Infancy and Childhood

MacDonald, A. M., MD *Edin.*, FRCPEd  
Gardner, Lectr., Sr. Lectr.

#### Psychological Medicine

Rodger, T. F., DPM *Leid.*, BSc MB ChB,  
FRCPEd, FRFPGlas  
Mowbray, R. M., MA PhD  
St. Clair, Mrs. Margaret B., BCom *Edin.*  
Ingram, I. M., MD *Edin.*, DPM  
Timbury, G. C., DPM *Leid.*, MB ChB,  
FRFPGlas, MRCP  
Selars, A. B., MB ChB, FRCPEd,  
FRFPGlas  
Malne, J., DPM *Leid.*, BSc MB ChB  
Gillies, H., MD DPM, FRCPEd  
Stone, F. H., MB ChB, FRFPGlas,  
MRCP  
MacGillivray, R. C., MB ChB *Edin.*,  
DPM *Leid.*, FRFPGlas  
Swinney, G. E., MA MB ChB *Aberd.*  
Freeman, T., MD *Belf.*, DPM *Leid.*  
McClatchey, W. T., MD *Belf.*, DPM *Leid.*  
Wardrop, K. R. H., MB ChB *Edin.*,  
DPM  
Raven, J. C., MSc *Leid.*

#### Public Health

Ferguson, T., CBE, DPH *Edin.*, MD DSc,  
FRCPEd, FRFPGlas  
Meiklogh, A., MD DPH, FRFPGlas,  
MRCP  
Mearns, A. G., MBE, BSc MD DPH  
Curran, A. P., BSc MD DPH

Horne, W. A., MD DPH  
 Miller, A. R., MD DPH  
 McIlwain, Christina C., MB ChB DPH

Lectr.  
 Lectr.  
 Lectr.

### Surgery

Illingworth, Sir Charles, CBE, MD ChM  
*Edin., Hon. DSc Shgl., FRCSed,*  
 FRCS  
 Mackay, W. A., TD, MB ChB, FRCSed,  
 FRFPGS, FACS St. Mungo Prof  
 Short, D. W., BSc MB ChM, FRCSed,  
 FRFPGS, Lectr.  
 Bass, W. H., MB ChB, FRCSed  
 Miller, C., MB ChB *Aberd., FRCS,*  
 FRCSed Lectr.  
 Shields, R., MB ChB, FRCSed Lectr.  
 Clark, R. G., MB ChB *Aberd.,*  
 Goodall, A. L., MD DPH, FRCSed, Lectr.  
 FRFPGS, Lectr.  
 Burnett, W., MB ChM *Aberd., FRCS,*  
 FRFPGS, Lectr.

### Surgery, Clinical

#### †Honorary Lecturers

Geissenberg, E. G., TD, MB ChB, FRCSed,  
 FRFPGS  
 Kerr, A. B., OBE, TD, BSc MB ChB,  
 FRCSed, FRFPGS  
 Patrick, W., TD, MB ChB, FRCSed,  
 FRFPGS  
 Wright, R. B., DSO, OBE, BSc MB ChM,  
 FRCSed, FRFPGS  
 Longhead, C. J., MVO, MB MS *Leid., FRCS*  
 Beattie, W., MB ChB, FRFPGS  
 Bonte, A. A., MB ChM, FRCSed, FRFPGS  
 Macpherson, L. J., MB ChB, FRCSed,  
 FRFPGS  
 Galloway, J. P., BSc MB ChB, FRCSed  
 Fraser, K., MD ChM, FRCSed, FRFPGS  
 Hutchison, J., MB ChM, FRFPGS  
 Gordon, W. L., MB ChB, FRCSed, FRFPGS  
 Brown, D. B., MB ChB, FRCS, FRFPGS

### Surgery, Specialist

#### †Honorary Lecturers

Dick, B. M., MB ChB *Edin., FRCSed,*  
 FRFPGS (Thoracic S)  
 Tough, J. S., MB ChB *Edin., FRCSed*  
 (Plastic S)  
 Robertson, J. S. M., BSc MB ChB,  
 FRCS (Neuro-S.)  
 Wallace, J., BSc MD *Edin. (Blood Transfusion)*  
 Gibson, T., MB ChB, FRCSed, FRFPGS  
 (Tissue Transplantation)

### Tuberculosis, Clinical

Barclay, R. S., MD DPH, FRCSed,  
 FRFPGS, Lectr.  
 Baxter, H., TD, MD, Lectr.  
 Borthwick, W. M., MD ChM, FRFPGS, Lectr.  
 Dale, A., MB ChB, Lectr.  
 McIntyre, J. F., MD, Lectr.

### Urology

Chapman, T. L., MB ChM, FRCS,  
 FRFPGS, Lectr.  
 Jacobs, A. H., FRCSed, FRFPGS, Lectr.  
 Mack, W. S., MB ChB, FRFPGS, Lectr.  
 FRCSed, Lectr.

### Virology

Stokes, M. G. P., MA MD Camb, Prof.  
 Grist, N. R., BSc MB ChB, FRCPed, Reader  
 Fraser, K. B., MC, MD *Aberd.,* Sr Lectr.  
 Wildy, N. P. L., MA MB ChM Camb, Lectr.  
 Mallick, Sue A., BSc N. Y., Hon. Lectr.  
 Temp. Asst.

## VETERINARY SCHOOL AND HOSPITAL

### Animal Husbandry and Preventive Medicine

Ingle, J. S. S., BSc *Edin.,* Prof.  
 Hemmingsway, R. G., MSc *Leeds, PhD* Sr. Lectr.  
 Abbot, S. G., MBE, Lectr.  
 Nicolson, N., Lectr.  
 Pearce, P. J., MSc *Leid.,* Lectr.  
 Campbell, A. J. D., BSc *Edin., BVSc Brit.*  
 Lectr.  
 McCance, C., Lectr.  
 Ritchie, N. S., BSc, Asst.  
 Wepers, Mary, MA, Vet. Supervisor at Field Sta.

### Veterinary Anatomy

Smith, Helen J., Sr. Lectr.  
 McCallum, F. J., Lectr.  
 Lindsay, Miss Flora E. F., Lectr.

### Veterinary Biochemistry

Mulligan, W., MSc *Belf., PhD Leid.,* Sr. Lectr.  
 Jennings, F. W., BSc *Magr. Belf., PhD* Lectr.  
 Douglas, T. A., BSc *PhD* Lectr.

### Veterinary Histology and Embryology

Aiken, R. N. C., Sr. Lectr.  
 Morgan, Elizabeth, BVMS, Asst.

### Veterinary Materia Medica

Thomson, A., (also Animal Management) Lectr.

### Veterinary Medicine

McIntyre, W. L. M., PhD, Prof.  
 Greig, W. A., BSc *PhD Edin.,* Sr. Lectr.  
 Lauder, I. M., Lectr.  
 Fisher, E. W., BSc *Edin., PhD* Lectr.  
 Dalton, R. G., BVMS, Asst.  
 Anderson, N., BVSc *Syd.* Asst.  
 McIlwain, A. D., BVMS, Asst.  
 Craghton, Mrs. Mary, Houseman  
 Neilson, J. T. McL., BSc, Res. Asst.

**Veterinary Pathology**

Enslin, J. W., BSc <i>Aberd</i>	Prof
O'Sullivan, J. G.	Sr. Lectr.
Campbell, R. S. F.	Sr. Lectr.
Mitchin, S. W., VS <i>Leam</i>	Sr. Lectr.
Dunn, A. M., PhD <i>Edin</i>	St. Lectr.
Grindlay, M.	Lectr.
McCusker, H. B.	Lectr.
Hamilton, J. M., BVMS	Lectr.
Connell, H. J. C., BVMS	Res. Asst.

Jennings, S.	Sr. Lectr.
Lawson, D. D.	Sr. Lectr.
Haguet, P. G.	Sr. Lectr.
Campbell, J. R., BVMS	Lectr.
Weaver, A. D., BSc <i>Edin</i>	
DrMedVet <i>Tier.H. Hannover</i>	Lectr.
Nagy, L., BSc	Lectr.
Wyburn, R. S., BVMS	Asst.
Renton, Jean F.	Wellcome Lab. Houseman
Longstrech, J. R., BVMS	Houseman
Clark, J. C., BVMS	Houseman

**Veterinary Pathology, Clinical**

Jarrett, W. F. H., PhD	Sr. Lectr.
Sharp, N. C. C., BVMS	Lectr.
Pirie, H. M., BVMS	Asst.

**STEVENSON LECTURER (Citizenship)**1958-63—J. A. Mack, MA *Oxon* & *Glas***Veterinary Pharmacology**

Sanford, J., BVSc <i>Law</i>	Lectr.
Jones, R. S., BVSc <i>Law</i>	Asst.
Carey, Fiona M., BSc <i>Law</i>	Asst.

**Veterinary Physiology**

Munro, A. F., BSc PhD <i>Aberd.</i>	Sr. Lectr.
Pickering, E. C., BSc BVMS	Lectr.
Anderson, R. S., BVMS	Lectr.

**Veterinary Surgery**

Weipers, W. L., BSc, FRCVS	[Vet. Educn. Prof., Dir. of
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Dees, N., BA <i>Manc.</i>	Dir.
Lloyd, W. E., BA <i>Wales</i>	Tutor
Shearer, J. G. S., MA	Tutor
Gillanders, F., MA	Tutor
Williams, R. A., MA <i>Wales</i>	Tutor
Baillie, M.	Tutor
Crookson, E. R., MA <i>Cambr</i>	(on leave) Tutor
Wilson, T. B., MA <i>Bnus</i>	Tutor
Gomme, A. H., MA <i>Cambr</i>	Tutor
Smith, H. J., MA <i>BLatt Oxon.</i>	Tutor
Titmus, C. J., BA PhD <i>Leam.</i>	Tutor
Hutchison, W. C., BSc PhD <i>Edin.</i>	Tutor
MacLeod, I. F., MA <i>Aberd.</i>	Tutor

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar & Asst. Sec. of Court: G. P. Richardson, MA. Finance Officer & Asst. Sec. of Court: R. D. McKean, CA. Asst. Secs. of Court: J. W. C. Wimpole, DPA; J. B. Neilson, MC, MA *Oxon* & *Glas*; J. McCargow, MA; G. Bradley, Hon. MA; W. J. Fairweather, BSc. Dep. Librarian: T. M. Walker, PhD *Belf.*, MA, FLA. Clerk of the Fac. of Med.: P. W. Price, MA *Oxon*. Clerk of Senate's Asst. & Clerk of Facs. of Arts, Div. and Law: C. S. Rankine, Hon. MA. Clerk of Senate's Asst. & Clerk of Facs. of Sci. and Engin.: D. A. Nicol, MA. General Adviser to Women Students: Barbara L. Napier, JP.

MA. Appts. Officers: J. Collins, MA, T. E. Carruthers, MA EdB, Barbara Webb, MA. Wardens: .... (MacLay Hall), K. H. Lockey, DIC, BSc PhD *Leam* (MacBryne Hall), A. Newax, MB ChB (Kelvin Lodge), G. R. Sharp, MB ChB (Horseshall House), Miss Elsie Conway, BSc PhD *Law* (Queen Margaret Hall). Chaplain: D. Gourlay, MA BD. Student Health Service: Sr. Med. Officer, A. S. Henderson, MB ChB; Med. Officer, H. A. N. Richmond, MB ChB. Dir. of Phys. Educn.: G. Niven. Radiation Protection Officer: W. McFadden, MA DSc, FIP.

**COLLEGE AFFILIATED TO UNIVERSITY**

ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY, see p. 1385

**COLLEGE** providing a qualifying course in agriculture for students reading for BSc in agric. of UNIV.

WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Sq., Glasgow, CA (tel. City 5211-3). Principal, D. S. Hendrie, BSc. Adviser of Studies, A. B. Smart, BSc. Hds. of Depts.: AGRIC, D. S. Hendrie, BSc; AGRIC. ECON., J. A. Gishrie, BSc; AGRIC. ENGIN. & SURVIVING, C. J. Swan, BSc; AGRIC. ZOOL., D. S. MacLagan, BSc (Agr.) PhD DSc *Edin*; ANIMAL HUSB., J. Walker-Love, MS *Edin*, BSc; BACTERIOL., S. Ilames, BSc *Leam*, PhD *Birm*; BEB-KEEPING, J. H. Savage; BOT.,

W. W. Fletcher, BSc PhD, FLS; CHEM., F. E. Moon, MSc PhD; CROST. HUSB., H. A. Wilson, MSc *Wales*; DAIRYING, J. McClelland, BSc; FARM BLDG., R. J. Forsyth, GRASSLAND HUSB., I. V. Hunt, MSc *Wales*, FLS; HORTIC., H. F. Dovaston, BSc DipEd *Law*, PhD, FLS; PLANT PATHOL., J. Grange, BSc PhD *Leam*; POULTRY HUSB., T. E. Whittle, Vet. Med., A. L. Wilson. STUDENTS (1960-61), 276; of whom 48 were reading for univ. quals.

## GENERAL INFORMATION

The univ. was founded in 1451 by a Bull of Pope Nicholas V, on the applicn. of William Turnbull, bishop of Glasgow. It was established as a *studium generale*, with the privileges of Bologna, and its charter provided for studies in theol., canon and civil law, arts and any other lawful fac.

The business of the univ. was carried on with varying fortunes till the Reformation, when its revenues were thrown into confusion. It was given new life by Andrew Melville, who became principal in 1574. In 1577 it was reconstituted by the 'nova erectio', a charter of King James VI which was the foundation of the statutes by which the univ. was governed until the Universities (Scotland) Act, 1858.

The 'old college' was situated in the High St for more than 4 centuries; the univ. moved to its present site on Gilmorehill in 1870. Since the transference was made, a whole range of new bldgs. has come into being (see 'Univ. Precinct', below).

**CONSTITUTION.** By the Universities (Scotland) Act of 1858, as modified by the act of 1880, the univ. court, upon which senate and general council have representation, controls the finances, properties and general admin. of the univ. The senate superintends teaching and discipline; it consists of the principal (who presides) and the profs. (*ex officio*) and readers and lectrs. apptd. by the senate to a max. of one-fourth of the *ex-officio* members. The general council consists of the chancellor, the members of the univ. court and the profs. of the univ., all *ex officio*; grads of the univ. who have paid the registration fee; and (during their term of office) readers and lectrs. of more than 1 yr.'s standing. The chancellor is elected for life by the general council. The rector is elected by the matriculated students, is pres. of the univ. court, and holds office for 3 yrs. The office of principal is apptd. by the chancellor to discharge in his absence his function of conferring degrees. The office has usually been and now is held by the principal.

**INCOME (1960-61).** Total income, £3,412,628 (govt. grants, 78 per cent.; fees, 10 per cent.; endowments, 5 per cent.; other sources, 7 per cent.).

**FACULTIES AND DEANS (1961-62)** Arts, Prof. W. W. Chambers (German); *lit.*, Rev. Prof. R. G. Smith; *engin.*, Prof. W. T. Marshall (civil *engin.*); *litt.*, Prof. J. A. C. Thomas (civil law); *med.*, Prof. C. M. Fleming; *sci.*, Prof. C. M. Yonge (sool.).

**UNIVERSITY PRECINCT.** Depts. accomm. within the univ. precincts at Gilmorehill incl. arts, div., law, med., sci. and engin., together with the library, museum, Butts hall, chapel, officers' trg. corps headquarters and the admin. offices.

The vet. sch. is accomm. outwith the precincts, at the vet. hosp., Garscube estate, and in the vet.

sch. bldg., Buccleuch St., with addnl. res. and teaching facilities at the field sta., Cochno. Teaching for the degree in agric. is provided partly in the univ. and partly in the W. of Scotland Agric. Coll. in Blythwood Sq. (see p. 1380). Med. teaching and res. facilities are provided at the Western and Royal Infirmarys, Southern General, Stobhill, Yorkhill and Dental Hospes. The engin. dept. also has res. and teaching labs in an annexe at Spencer St., Anniesland.

The original univ. precinct, extending to about 24 acres, is bounded by Univ. Avenue on the north, by Kelvingrove Park on the east and south and on the west by the Western Infirmary, and contains little possibility of further bldg. devel.

The adjacent devel. area, extending to about 26 acres, is bounded by Univ. Avenue on the south, by Bank St. on the east, by Gt. George St. on the north and generally by the Lilybank Gdn. area on the west. This area also contains few unoccupied sites immediately available for new bldgs. The univ. owns about 8 acres and is acquiring individual houses as these come on the market. An amended plan has been approved for future univ. devel. in the adjoining Hillhead area in which sites have been allocated for a number of important new bldgs. including a refectory and library.

For bldgs. recently completed or approaching completion, see p. 1384.

The **LIBRARY**, founded in the 15th century, contains over 400,000 vols., including 500 incunabula. Among its many important collections are the Bann, distinguished for the value and variety of its bibles; the Hamilton (philos. works); the Ferguson (rare bks. on the hist. of chem.); and the Pallock collection of emblem lit. bequeathed to the library in 1958. There are sep. branch libraries for chem. and vet. med. A large Reading Room serves the needs of undergrads, while there are some 70 class and dept. libraries, among the largest of which are those associated with modern langs. (opened 1960), soc. & econ. res., and the dept. of Soviet studies. The **HUNTERIAN MUSEUM**, founded in 1783, contains the Hunterian lib., the most valuable of the univ.'s collections of bks. and MSS., as well as important collections of coins, nat. preparations, zool. and mineral specimens, etc.

**LABORATORIES.** Anal., biochem., bot., chem., engin., forensic med., geog., geol., med. med., nat. philos., pathol., physiol., pub. health, virol., and zool. As Glasgow stands at the centre of the shipbldg., engin., mining and indust. area of Scotland, it offers unique opportunities for technical trg. There is a well-equipped heat engines res. establ. (Spencer St.). The nat. philos. dept. has a 340 MeV synchrotron. A computing lab. was established in 1958, having as its main equipment an English Electric computer.

There are bot. gdns., a freshwater biol. field sta. (Loch Lomond) and an **OBSERVATORY**.

**TEACHING HOSPITALS.** 5 large general hospitals (the Western, Royal and Victoria Infirmaries and the Southern General and Stobhill hosp.) are available for clinics, besides ap. instns. The dent sch. is assoc. with the Dent Hosp (Renfrew St.) The vet sch. has animal hosp. and field str.

**ADMISSION.** See Appendix III

**FIRST DEGREES.** MA ord 3 yrs., hons 4 yrs. Hons. courses are separate to the extent that each subg. of the hons. group must be studied at hons. level during a session. The principal groups for hons. are classics, philos., maths. and nat. philos. or astron., Engl. lit. & lang., hist., econ., pol., mod. European lang., Semitic lang., Celtic (incl. Irish and Scottish Gaelic, Manx, Welsh and Breton), music with a lang. or hist. or psychol. or maths. or philos. or Engl. lit., geog. with econ. or econ. hist. or archaeol., psychol.; BMus, 3 yrs., LLB ord 3 yrs., hons., 4 yrs.; BSc in appl. chem., BSc in archit., BSc in pharm., hons., 4 yrs. These are essentially hons. courses; the exemptions may, however, award an ord or pass degree. BSc in pure sci.: ord 3 yrs., hons 4 yrs., separate hons. courses after the 1st yr.; hons. subgs.: maths., nat. philos., astron., chem., the natural sci., geog., anat., physiol., pathol. with bacteriol., biochem., pharmacol., genetics (with another subg.) BSc in agric.: ord 3 yrs., hons. 4 yrs. BSc in engin. (aero, chem., civil, electr., mach., mining, naval archit.). 4 yrs., separate ord. and hons. courses after 2nd yr. BScTech., ord. 3 yrs., hons. 4 yrs., separate hons. courses after 1st yr.; hons. subgs.: food sci., appl. bacteriol., textile sci. MB ChB, 6 yrs., BDS, 5 yrs., BVMS, 5 yrs.

**HONORS DEGREES.** BLitt, EdB, MSc (sci. and engin.), 2 yrs.; BD, 3 yrs MD (thesis and examn., the latter may be waived, open only to grads. MB ChB of Glas.); ChM, MVS, DVM, MDS (as for MD); DLitt, DSc (pub. health), grads. of other univs., 2 yrs (no period stipulated for Glas. grads.); DMus, grads. of other univs., 3 yrs. (no period stipulated for Glas. grads.); LL.D., open only to grads., 7 yrs. after 1st graduation. PhD (in all fcs.), 3 yrs.

**HONORARY DEGREES.** MA, BSc, MSc, DLitt, DD, LL.D.

The univ. does not award **EXTERNAL DEGREES**

**DIPLOMAS.** Educn., 1 yr. postgrad. (1st yr. of EdB course); pub. admin., 3 yrs., dramatic studies, 2 yrs., for arts grade; DPH, 1 yr.; English lang., appl. linguistics, phonetics, numerical analysis, cartography, photogrammetry, 1 yr. postgrad.; Roman law, 1 yr., for grads. in arts or law; clin. psychol., 2 yrs., for hons. grads. in psychol.; educn. psychol., 1 yr., for EdB grads. or hons. grads. in psychol.

Dipls. for subgs. of sp. study (min 1 yr.): Islamic hist., Greek hist. & archaeol., Roman hist. & archaeol., compari. philol., romance philol.; psychol.; agric. econ.; social geog.; sociol.

**CERTIFICATES.** Indust. admin., postgrad. study in thermodynamics, 1 yr. each, soc. study, 2 yrs (1 yr. for grads.), dramatic studies, 3 yrs.

**COSTS** for sp. study (min 1 yr.): seminar philol.; Greek hist., Roman hist.; psychol.; Islamic hist., sociol.

**RESEARCH.** For detailed information regarding postgrad. study and res. in any fac., applicn. should be made to the deans. There is public annually *Symposium of Theses* for which the degree of PhD has been awarded in the fac. of sci.

**ALLIANCES.** Exchange arrangements exist with Cornell and McGill for free travel, fees, and maintenance for 1 yr. to a student who has graduated or is about to graduate in any fac.

**FEES.** Annual fees (incl. matric., tuition, exam. and lab. fees). Arts (incl. div., educn., law and music), £60, sci., engin., med. (incl. dent. and vet. med.), £75. Lab. deposits payable in addition. Dipls. and certificates: Engl. lang., appl. linguistics, linguistics and phonetics, educn. psychol., soc. study (2-yr. course), licentiate in theol., £60; DPA, Roman law, £20, numerical analysis, DPH, indust. admin., thermodynamics, cartography, photogrammetry, £75, clin. psychol., £80 (clin. yr., £10). Accompany students (full-time yr.), £60. MSc, PhD, £60, with lab. facilities, £75. BLitt, £40.

Higher degrees (payable on submission of thesis), MD, ChM, DVM, MVS, MDS, £30 DLitt, DSc, DMus, LL.D., £35.

**ACADEMIC YEAR.** Oct. to June: 3 terms of 10 wks. each, but teaching in 3rd term ends after 5 wks. for arts, 7 wks. for engin. and 8 wks. for div.

**UNIVERSITY EXTENSION** (see also 'Teaching Staff', above). An extra-mural educn. ctee., equally representative of the univ. and working-class organizations, provides classes, short courses and single lectures to groups of students in Glasgow and the west of Scotland, so far as its resources will permit: a compendium of classes and lectures for the session is obtainable from the dir. of extra-mural studies, 91 Oakfield Ave., Glasgow, W.2. Public lectures by profs. and others during the winter session. The dept. of appl. econ. conducts a 3-yr. course in management studies and a 2-term course in indust. acety, 1-term courses in indust. hist., indust. law and indust. relcs. designed for business executives. There is also a 1-yr. full-time cert. course in indust. admin.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS.** All entrance bursaries in the gift of the univ. are awarded after competitive exam. held, for bursaries in div., in Sept., and for others, in June. There are in addn. bursaries in the gift of patrons, applicants for some of which are required to sit the general bursary exam. in June. A pamphlet giving full information is obtainable from the registrar.

**POSTGRADUATE AWARDS** open to grads. of other univs. See p. 910.

APPOINTMENTS COMMITTEE. Sec. for men's appts.—J. Collins, MA. Sec. for women's appts.—Barbara Webb, MA. *Postal address*: 3 Univ. Gdns., Glasgow, W.2 (tel.: Western 1855).

GRADUATES' ASSOCIATIONS. Graduates' assocn.: hon. sec.—J. C. M. Jardine, BL, 77 St. Vincent St., Glasgow, C.2. Early Twentieth Club: hon. sec.—G. Donaldson, LLB, 160 W. George St., Glasgow, C.2. Glasgow U. Club, Aberdeen hon. sec.—A. K. Pingle, BSc, 10 St. Swinton St., Aberdeen. Glasgow U. Club, London: hon. sec.—H. L. P. Myles, LLB, 53 Parliament St., Westminster, London, S.W.1, and J. F. Haggie, BSc MB, N. Middlesex Hospital, Edmonton, London, N.18. Glasgow U. Women's Club, London: hon. treasurer—K. M. MacLean, 8/140 Wignore Rd., Bromley, Kent. Yorkshire Assoc. of Grads. of the U. of Glasgow: hon. sec.—J. Wishart, MB, FRCS, 33 Manor Row, Bradford. Glasgow U. Club, Manchester: hon. sec.—... Glasgow U. Grads. Club of New South Wales: hon. sec.—D. S. Macmillan, MA, Aberyst. Univ. of Sydney, New South Wales. Glasgow U. Assoc. of Sheffield & District: hon. sec.—Dr. A. S. Browne, British Railways, E.R., Wharf St., Sheffield, 2. Hull & District Glasgow U. Grads. Assoc.: hon. sec.—W. D. Cnig, BL, The Univ., Hull, Yorks. Glasgow U. Grads. Assoc., Birmingham: information from Prof. E. C. MacLennan, Dept. of Chemistry, Queen Elizabeth Hosp., Birmingham, 15. Glasgow U. Grads. Club, S. Rhodesia: ... Glasgow U. Club of New York: pres.—Dr. G. Goodkin, 112 Lee Rd., Garden City, L.I., N.Y., U.S.A. Glasgow U. Assoc. of British Columbia: pres.—J. Duck, MB, 5838 Adena St., Vancouver, 13, B.C.

RESIDENCE. (For wardens, see 'Admin. and Other Staff', above). For women: Queen Margaret Hall, Bute Gdns., Glasgow, W.2 (tel.: Western 1622), 90 students. For men: Machy Hall and Strain Hall, 16-18 Park Terrace, Glasgow, C.3 (tel.: Douglas 5056), 114 students; MacLennan Hall, 9-13 Park Circus Place, Glasgow, C.3 (tel.: Douglas 6266), 60 students; Kelvin Lodge, 7-8 Park Circus, Glasgow, C.3 (tel.: Douglas 3366), 50 students; Hoeckel Hall House, 7 Hoeckel Hill Rd., Glasgow, W.2 (tel.: Kelvin 2732), 45 students. Fees: £150 for the academic yr. of three 10-wk. terms.

LODGINGS. Lists of lodgings for men and women students are kept by the lodgings officer, 4 University Gdns., Glasgow, W.2 (tel.: Western 8855).

UNIVERSITY MILITARY AND AIR FORMATIONS. Officers' Training Corps (Territorial Army). Formed 1909 as ar. div. O.T.C.; reorganized 1948 and 1955. C.O.: Lt.-Col. D. A. T. Cason, MBE, W.R.A.C. Commander: Capt. M. D. Fraser, TD. Units: artillery, engineers, infantry, W.R.A.C. *Postal address*: University Ave., Glasgow, W.2 (tel.: Western 6611).

University Air Squadron: syllabus—full elem.

flying tig., both ground and air, being 120 hrs. flying and 90 hrs. lectures, spread over 3 yrs. H.Q.: 11 Bute Gdns., Glasgow, W.2 (tel.: Western 6460).

(There is no naval unit attached to Univ., but there are excellent facilities for undergrads, and grads. seeking naval tig. with the Clyde Div., Royal Naval Reserve).

UNIVERSITY ATHLETIC CLUB. Facilities exist for most indoor and outdoor games and sports for men and women. There are well-equipped gymnasia and swimming-pool in Stevenson Bldg. Grounds: Westerlands and Garscadden (tel.: Western 8205, Scotstoun 2755). Hon. pres.: R. O. MacKenna, MA; hon. treasurer: G. Rendley, MA; ds. of phys. trig.: G. Niven.

STUDENT HEALTH SERVICE. No domiciliary service, but full-time med. officers available for routine med. exams, and consultations; compulsory annual chest X-ray for all matriculated students.

STUDENTS' REPRESENTATIVE COUNCIL. The council consists of 40-official members apptd. by certain student clubs and soci., and of elected reps. of the several facs. The constitution and functions of the S.R.C. incl. the right to petition the senate on any matter affecting teaching or discipline, and to petition the court direct in any other matter affecting the students. The council works through cities: games, chapel, hospitality, fairs, book sales, vacation employment, freshmen's camps and pubhous.

STUDENTS' UNIONS. Glasgow Univ. union, establd 1885, present bldgs. opened 1931. Membership open to matriculated men students and former men students of the Univ., to members of the Univ. court, the senatus academicus and the teaching staff. Annual sub.: £3: 3s. *Postal address*: University Ave., Glasgow, W.2 (tel.: Western 8697). Queen Margaret union, founded 1890. Membership open to matriculated women students and women grads. Annual sub., £2: 6s. *Postal address*: University Ave., Glasgow, W.2 (tel.: Kelvin 1023). Hetherington House, 13 Univ. Gdns., Glasgow, W.2 (tel.: Western 3765), a club for res. and other postgrad. students.

PUBLICATIONS. *Calendar* (12s. 6d.); *Glasgow Univ. Gazette*, each term; *College Covenant* (journal of graduates' assocn.), bi-annually; *Glasgow Univ. Magazine* (students), monthly during winter season; *Glasgow Univ. Guardian* (students), fortnightly; *Exam. Papers*, prelim. and degree; *Student's Handbook* for matriculated students; *Archivum Linguisticum* (journal of comparative philol. & general linguistics); *Societ. Studies* (quarterly); *Memoranda* (1451-1727) (Maitland Club, 1844); *Roll of Grads* (1727-1897) (Addison); *Moirs. Album* (1728-1858) (Addison); *History of the Univ. of Glasgow*, by J. Coutts (MacLennan, 1901); *Memoirs of the Old College of Glasgow*, by D. Murray (Jackson Wylie, 1927); *The Univ. of Glasgow 1451 to 1951*, by Prof. J. D. MacInnes (Jackson, 1954).



## THE YEAR 1961

**PRINCIPAL BENEFICIARIES** U.S. Public Health Service, \$37,000 (instalment) for 148 in biochem and pathol.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs completed: inst. of virol, genetics extension. Approaching completion: biochem, exam halls, naval archit. test tank, telephone exchange.

**NEW DEPARTMENTS AND CHAIRS** Chairs: orthodontics; vet. med.

**RETIREMENTS** Dr. C. Buchanan (org. chem.), Prof. C. A. Campbell (logic); Prof. L. J. Davis (med.), Prof. S. G. Graham (child health), Christina Lewis (chem.), Dr. J. A. Mear (chem.), Dr. J. Wen (geol.).

**RESIGNATIONS.** Dr. R. E. Azuma (nat. philos.), apptd. asst. prof. of phys., Tex.; Dr. J. A. Bates (soc. & econ. res.), apptd. lectr., Balt.; Dr. D. Campbell (anaesthetics), apptd. consultant anaesthetist, Glasgow Royal Infirmary; Dr. H. S. Caplan (nat. philos.), apptd. to post in Tex.; Dr. I. A. Carr (pathol., Royal Infirmary), apptd. sr. lectr. in pathol., N.S.W.; Dr. E. N. Coleman (child health), apptd. consultant paediatrician with West. Reg. Hosp. Bd.; Dr. W. A. Crawford (psychol. med.); Dr. R. H. Cummings (geol.), apptd. dir. of Robertson Res. Corp.; A. C. Day (chem.), Dr. H. L. Duthie (surg.), apptd. asst. dir. of dept. of surg., Leeds; Dr. R. J. Fallon (bacteriol.), apptd. consultant in lab. med., Rushall Hosp.; C. G. Harlow (Engl. lang.), apptd. lectr. at Westfield Coll., Lond.; P. E. Hart (soc. & econ. res.), apptd. lectr. in econ. stats., Bristol; Dr. R. Hodges (chem.); Dr. E. V. Kancilopoulos (fluid mech.), Dr. Joanna Katchin (French), apptd. lectr., Edin.; Dr. N. R. MacCallum (mech. engin.), apptd. to post in industry; Dr. P. V. March (nat. philos.), apptd. lectr. in Westfield Coll., Lond.; Dr. M. Martin-Smith (exper. pharmacol.), apptd. sr. lectr. in med. chem., R.C.S.T., Glasgow; Dr. K. Maywald (soc. & econ. res.), apptd. sr. statistician, Central Statistical Office of Rhodesia & Nyasaland; Dr. R. G. Moorhouse (nat. philos.), apptd. to post with Nat. Inst. for Res. in Nuclear Sci.; Dr. J. M. Ritchie (German), apptd. sr. lectr. in German, N.S.W.; Dr. S. D. Silvey (maths.), apptd. sr. lectr., Munc.; Dr. T. J. Thomson (materna medica), apptd. consultant physician based on Stobhill Gen. Hosp.; H. J. Trump (extra-nasal studies), apptd. dir. of adult educ., S'ron.; Dr. J. T. Vantels (vet. pathol.), apptd. to post with Animal Diseases Res. Assocn., Edin.; Dr. W. S. Williams (nat. philos.), apptd. sr. res. officer, Clarendon Lab., Oxford.

**DECEASED** Emer. Prof. J. M. Clark (prof. of German, 1931-54), P. A. B. Drummond (lectr. in dent. prosthetics), Emer. Prof. E. Taylor Jones (prof. of nat. philos., 1926-43); Emer.

Prof. R. A. Lennie (regius prof. of midwifery, 1946-54), Prof. G. S. Pryde (prof. of Scottish hist. & lit.); Dr. J. Reid (lectr. in chemo-therapy).

**HONORARY DEGREES** DD—Rev. J. McIntyre, prof. of div., Edin.; Rev. W. Neil, warden of Hugh Stewart Hall, Nott.; Rt. Rev. S. C. Neill, formerly bishop of Tinnervall and Travemunde. LL.D.—Sir David Anderson, formerly dir., R.C.S.T., Glasgow, Sir Myer Galpern, formerly lord provost of Glasgow, Sir Charles Hague, chairman, Babcock & Wilcox Ltd.; L. Julliot de la Morandière, formerly prof. of civil law, Paris; J. W. McLeod, formerly prof. of bacteriol., Leeds; T. F. Macrae, 1st dn., Glaxo Lab., G. Ugo Papi, prof. of pol. econ., Rome, E. Schmidt, prof. of tech. thermodynamics, T.H., Munich, Hon. Lord Strachan, one of Senators of Coll. of Justice in Scotland; R. H. Tawney, formerly prof. of econ. hist., Lond.

## Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4267	68
Women	1518	55
Total	5785	123

Distribution by Faculties. Arts, 1826, div. 119, engin., 601; law, 403; med., 1496 (med., 1020, dent., 234; vet. med., 242); sci., 1463. Total 5908.

Included in the figures above are —

Postgraduate students, 489.

New admissions, 1705.

Students from other countries, 439. (Countries from which largest numbers came: Nigeria, 77; India, 42; U.S.A., 39; Norway, 33; Germany, 28).

**DEGREES AWARDED (1960-61)** Agric.: BSc (agric.) ord., 6; BSc (agric.) hon., 7. Arts: MA ord., 224; MA hon., 115; BMus ord., 1; BMus hon., 3; EdB, 3; BLitt, 3. BD, 13, LLB, 30; BL, 10; DLitt, 1; Dent: BDS, 36. Med.: MB ChB, 155; MD, 17; ChM, 1. *Post soc.* BSc ord., 112; BSc hon., 141; BSc (appl. chem.) ord., 5; BSc (appl. chem.) hon., 11; BSc (engin.) ord., 97; BSc (engin.) hon., 44; BSc (pharm.) ord., 17; BSc (pharm.) hon., 5. Vet. med.: BVMS, 32. PhD (all facs.): 43.

**DIPLOMAS AWARDED (1960-61).** DPA, 6; DipEd, 47; DPH, 12.

**CERTIFICATES AWARDED (1960-61)** Dramatic studies, 6; soc. study, 16; indust. admin., 12.

# ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY, GLASGOW\*

Founded 1796; affiliated to the University of Glasgow, 1913

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## TEACHING STAFF

### Applied Microbiology and Biology

Scott, E. O., BSc PhD Birm.  
Kearney, J., D.TechSc Zür.  
(Microbiol.) Sr. Lectr.  
Fletcher, W. W., BSc PhD Glas, FLS  
(Biol.) Sr. Lectr.  
Acland, A. P., BSc Glas.  
Trenn, Margaret S., BSc Glas.  
Fitchison, W. M., BSc PhD Glas.  
Dunn, J. A., BSc PhD Glas.  
Smith, J. E., BSc Glas, PhD Mans.  
Watson, J. D. E., BSc Birm., PhD St. And.  
Lectr.

Allen, M. C., BSc Glas.  
Junehue, J. F., BSc Glas.  
InLeod, D. G., BSc Glas.  
YNell, G. J., BSc Glas.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Architecture and Building

Holden, F., MA Durh, FRIBA  
Prof., Dir. of Archit. Studies  
MacLenn, A., BA Manc.  
Watson, D. S.  
Jyon, T. P.  
Curry, J. E.  
Krode, Margaret B., BSc Glas  
Kelby, F., DiplIngArch Berl.  
Corrison, R. S.  
Form, E. N.  
Viochrie, A. J., BSc Glas.  
Wilson, J.  
Linton, H. W., BA Durh.  
Soubane, J. M., DipArch Durh.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Chemical Technology

Rochat, P. D., BSc PhD St. And., FRIC  
Young Prof.  
Mitchell, T. J., PhD Glas, FRIC  
St. Lectr.  
Gibb, W., BSc PhD Glas.  
Sr. Lectr.  
Bengough, W. I., BSc Wales, PhD Camb.  
Sr. Lectr.  
Gardner, R. G., BSc PhD Glas.  
Lectr.  
Stesser, C. G. M., BSc PhD Edin.  
Lectr.  
MacDonald, B. B., BSc PhD Glas.  
Lectr.  
Cox, L. R., BSc Lond.  
Lectr.  
Smith, D.  
Asst. Lectr.

### Chemistry

Peacock, P. L., BSc Glas, PhD Sheff.,  
FRIC  
McLenn, J., BSc PhD Glas, FRIC  
Reader  
Good, W., DSc Zür.  
Sr. Lectr.  
Sharp, D. W. A., MA PhD Camb.  
Sr. Lectr.  
Wood, H. C. S., BSc PhD St. And.  
Sr. Lectr.  
Anderson, H. G. A., BSc Glas, FRIC  
Lectr.  
Alexander, W. A., BSc Lond., FRIC  
Lectr.  
Synde, A. C., BSc PhD Glas.  
Lectr.  
Sharp, W., BSc PhD Glas, FRIC  
Lectr.  
Bladen, P., PhD Lond.  
Lectr.  
Brown, D. H., BSc PhD Glas.  
Lectr.  
Proctor, O. R., BSc PhD Abard  
Lectr.  
Jeffreys, J. A. D., MA DPhil Oxon.  
Lectr.  
Knox, G. R., BSc PhD Sheff.  
Lectr.  
Nonkel, D. R., BSc Lond., DPhil Oxon.  
Lectr.  
Lawrie, W., BSc PhD Glas.  
Lectr.  
Hyde, A. J., BSc PhD Sheff.  
Lectr.  
Swanton, P. L., BSc PhD St. And.  
Lectr.  
Rosh, R. A., BSc PhD Glas.  
Lectr.

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# ROYAL COLL. OF SCIENCE AND TECHNOLOGY, GLASGOW 1387

Gry, W. A., BSc Glas	Reader	MacNedl, A. C. M., MA BSc Glas.	Lectr.
Loudon, J.	Sr Lectr.	Bagnell, L., MA Glas.	Lectr.
Constant, G. D., BCom Lev	Sr Lectr.	McLaren, A. S., BSc Glas.	Lectr.
Clarke, I. F., MA Lev. (Gen. Studies)	Sr Lectr.	Wyke, T. S.	Lectr.
Glas, E.	Lectr.	Weaver, C., BSc Lond., FIP	Lectr.
Canneton, D.	Lectr.	McKenzie, A. S. V., BSc Glas	Lectr.
Shaw, R. K.	Lectr.	Luffman, D., MA Camb., BSc Wales	Lectr.
Monaghan, W., BSc Glas	Lectr.	Cole, J. F. T., MSc Belf.	Lectr.
Allan, W. G.	Lectr.	Griffiths, L. J., BSc Phd Waler	Lectr.
Burt, J., BA Lond	(Gen. Studies) Lectr.	Little, J., BSc Glas.	Lectr.
Loenax, R. S.	Lectr.	Stann, F., BSc Phd Edin	Lectr.
Robertson, T.	Lectr.	Boag, T. R., BSc Glas.	Lectr.
Gordon, D. R., MA Oxon	(Gen. Studies) Lectr.	Jones, D. A., BSc Phd Waler	Lectr.
Eels, F. R., MA St And	Lectr.	Henderson, G., BSc Glas	Asst Lectr.
Jack, A. B., MA Glas.	Lectr.	Murray, I.	Lectr.
Pickett, J., BSc Lond.	Lectr.		
Green, P., MA Leeds	(Gen. Studies) Lectr.		
Gregory, M. J., BA Oxon.	(Gen. Studies) Lectr.		
Foster, R.	Lectr.		

## Mathematics

Pack, D. C., MA Oxon., DSc St. And.	Prof		Supt.
Loed, R. D., MSc Lond	Sr Lectr.	Coise, Capt. J. R.	Sr Lectr.
Helliwell, J. R., BSc Phd Leeds	Sr Lectr.	Hunter, Capt. A.	Sr Lectr.
Eason, G., MSc Phd Burn.	Sr Lectr.	Hill, Capt. R. T. W.	Lectr.
Naylor, D., BSc Phd Lond	Sr Lectr.	Baldwin, Capt. G. D.	Lectr.
Builer, D. S., MA Camb.	Sr Lectr.	Brown, Capt. H. H., DSC	Lectr.
Wilkinson, W. D., BSc Waler	Lectr.	Bizzard, Capt. W. C.	Lectr.
Eaton, J. C., MA Glas.	Lectr.	Kennedy, Capt. D. M.	Lectr.
Martyn, W., MSc Lond	Lectr.	Ward, Capt. A.	Lectr.
Bartlett, C. C., MSc Durb., Phd Glas.	Lectr.	Callender, Capt. A.	Lectr.
Smyth, J. L., MA Phd Belf.	Lectr.	Watkinson, Capt. D.	Lectr.
Muir, W. W., BSc St And., Phd Edin.	Lectr.	Douglas, Capt. J. A.	Lectr.
Howie, A. J., MA Glas., Phd Edin.	Lectr.	Forrester, R. J., BSc Glas.	Lectr.
Fraser, J. G., BSc Glas.	Lectr.	Watters, Capt. D.	Lectr.
Sweet, Mrs Myrtle V., BA Camb.	Lectr.	Wallace, Capt. K. M.	Lectr.
McGregor, D. D., MA Edin.	Lectr.		
Warner, F. J., MSc Lond.	Lectr.		
Weir, D. G., MA Phd St And.	Lectr.		
Backland, P. R., MA Camb.	Asst Lectr.		
Welsh, R. L., BSc St. And.	Asst Lectr.		
Blair, J. M., BSc Glas	Asst Lectr.		
Reid, D. H., BA Camb.	Asst Lectr.		

## Metallurgy

Ellwood, E. C., BSc Phd Lond., FIM	Prof.		
Taylor, J., MSc Phd Durb., FIM	Reader		
McLeod, J. M., BSc Phd Glas., FIM	Lectr.		
Bell, H. B., BSc Phd Glas., FIM	Lectr.		
Cooper, A. H., BSc Phd Glas.	Lectr.		
Kennedy, R., BSc Phd Glas.	Lectr.		
Dowling, D. B., BSc Glas.	Lectr.		
Fraser, D. J., BSc Phd Lond.	Lectr.		
McLean, A., BSc Glas.	Asst Lectr.		

## Natural Philosophy

Irving, J., MA Glas., Phd Burn.	Freeland Prof.		
Shupe, J. W., MA Glas., FIP	Sr Lectr.		
Jacob, L., Phd DSc Liv., FIP	Sr Lectr.		
Ward, A., BSc Phd Glas.	(Health Phys.) Sr Lectr.		
Symon, F. J., BSc Phd Glas.	Lectr.		

## Naval Architecture

Bridge, I. C., BSc Glas.	Hd of Dept.
Hughes, J. H.	Lectr.
Hunter, J.	Lectr.

## Navigation, School of

Coise, Capt. J. R.	Supt.
Hunter, Capt. A.	Sr Lectr.
Hill, Capt. R. T. W.	Sr Lectr.
Baldwin, Capt. G. D.	Lectr.
Brown, Capt. H. H., DSC	Lectr.
Bizzard, Capt. W. C.	Lectr.
Kennedy, Capt. D. M.	Lectr.
Ward, Capt. A.	Lectr.
Callender, Capt. A.	Lectr.
Watkinson, Capt. D.	Lectr.
Douglas, Capt. J. A.	Lectr.
Forrester, R. J., BSc Glas.	Lectr.
Watters, Capt. D.	Lectr.
Wallace, Capt. K. M.	Lectr.

## Pharmacy

Stanlake, J. B., DSc Phd Lond., FRIC	Prof
Gemmell, D. H. O., BL Glas	Sr Lectr.
Fish, F., BPharm Lond., Phd Glas	Sr Lectr.
Maitland-Smith, M., MSc Well., Phd Roch.	Sr Lectr.
Anderson, W., BSc Phd Glas	Sr Lectr.
Comrie, A. M., BSc Phd Glas.	Lectr.
Chilton, J., MPharm Lond., Phd Glas.	Lectr.
Pattinson, J. L., BSc Glas.	Lectr.
Williams, W. D., BPharm Lond., Phd Glas.	Lectr.
Dawson, Mary, Phd Glas.	Lectr.
Nelson, P. F., BSc Glas	Lectr.
Bell, N. D. S., BSc Glas	Lectr.
Ellworthy, P. H., BPharm Phd Lond.	Lectr.
Wood, G. C., BSc Phd Lond.	Lectr.
Duncan, Jesse G. C., BSc Glas.	Asst Lectr.
Newcombe, F., BSc Glas.	Asst Lectr.
Smith, G. A., BSc Glas.	Asst Lectr.
Macfarlane, C. B., BSc Glas.	Asst Lectr.

## Physics, see Nat. Philos.

## Textile Technology

Meredith, R., DSc Maur., FIP, FTI	Prof.
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Taylor, E. G., BScTech Manc	Principal Lectr.	Gronski, Z	Lectr.
Marvin, A. W.	Lectr.	Pencock, N., MA Camb., MSc PhD Leeds	Lectr.
Elder, H. M.	Lectr.	Cochrane, A.	Inst.

### ADMINISTRATIVE AND OTHER STAFF

Bldgs Officer	L. McGougan.	Student Welfare & Appts. Officer	N. W. Mount, BSc Glas	Radiation Protection Officer	A. Ward,	BSc PhD Glas.	Medical Officer	W. G. Mauderson, MB ChB Glas., FRFPGlas, MRCP	Physical Trg Instr.	D. Matheson.
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### GENERAL INFORMATION

Founded in 1796 under the will of Prof. John Anderson, Anderson's Coll. was, in 1886, joined with the Coll. of Science and Arts (1823), the first 'mechanics' instn., itself an offshoot of the original Anderson's Coll., and with the Atkinson Instn. (1861) is the Glasgow and West of Scotland Technical Coll. From 1912 the coll. was known as the Royal Technical Coll. and in 1956 H.M. the Queen approved the title of the Royal Coll. of Science and Technol., Glasgow. The coll. was affiliated with the Univ. of Glasgow in March 1913 and was recognized by the University Grants Committee and placed on the list of univ. instns. receiving grant from the Treasury in 1919.

**CONSTITUTION** The coll. operates under the City of Glasgow Royal Coll. of Science and Technology Glasgow Scheme 1962 in terms of section 123 of the Education (Scotland) Act 1946, with a coll. council of 11 members elected by public bodies and the academic bd., 8 members co-opted by the council and the principal of the coll. The council is responsible to the Scottish Educn. Dept. for the management of all coll. affairs, academic matters are under the control of the academic bd. composed of hds. of depts. with 100s of the non-professional staff.

**INCOME (1960-61).** £985,620 (fees, 9.9 per cent.; donations, etc., 0.4 per cent.; endowments, 1.2 per cent.; parliamentary grants, 87.8 per cent.; other income, 0.7 per cent.).

**BUILDINGS** The main coll. bldg., which is situated in the centre of Glasgow, was completed in 1910. Built on a very liberal scale, it proved adequate for the expanding work of the coll. until just before 1939 when a small extension was added. Since then a major extension for mech., civil, chem., and mining engin., and a large students' union have been added and bldgs. acquired for a dept. of food sci. and the sch. of navigation. The gift of a mansion house and grounds near Glasgow in 1953 provided the nucleus of what is now a residential centre for management studies. Site work began on further extns. to occupy total island area and to house chem., chem. engin., chem. technol. and mech. engin. These should total 153,000 sq. ft. and the rehousing will give an opportunity to other depts. for much-needed expansion.

**LIBRARIES** The Andersonian libr., commemorating the founder of the coll., houses an extensive range of technical and scientific publications (over 55,000), incl. many of historical

interest, the founder's libr. and the James Young collection of early alchemical, metall. and chem. books. There are also dept. librs.

**LABORATORIES** Ample facilities for undergrad and postgrad. work of the highest standard.

**ADMISSION** Admission to courses leading to degrees of the Univ. of Glasgow is conditional upon obtaining an attestation of fitness from the Scottish Univ. Entrance Bd. (see Appendix III). The conditions for admission to associateship courses are broadly similar, except that a pass in a foreign lang. is not essential. Students wishing to read for external degrees of the Univ. of London must satisfy the admission requirements of that univ. (see Appendix III).

**Courses** Under the affiliation ordinances, the coll. provides full qualifying courses for hon. degrees of the Univ. of Glasgow in civil, mech., chem., electr., and mining engin., appl. chem., appl. chem. (metall.), appl. chem. (ceramics), pharm., archit., appl. bacteriol., food sci., textile sci., and in maths, appl. phys. for the Univ. of Glasgow and degree BSc(Tech.). For the associateship of the coll. (ARCS), courses of 4 yrs. are provided in civil, mech., electr., chem., and mining engin., naval archit., appl. chem., metall., ceramics, maths, appl. phys., pharm., food sci., microbiol., bldg. and textile technol. Entrance qualifs. for the associateship courses are given in the *Prospectus of Full-time Courses*.

**Courses (1 yr.) for coll. postgrad. dipl. in advanced studies (DRC)** are available in maths; appl. phys.; chem. process devel., polymer sci.; extractives metall.; phys. metall., mech. engin., power engin. (incl. nuclear power); predn. engin.; civil engin.; struct. engin.; environmental control engin. & resource utilization, electr. engin.; mining engin.; mining geol., appl. geophys.; pharmaceutical chem.; appl. biochem.; naval archit., food sci.; microbiol.; textile technol., town planning.

The Glasgow Sch. of Archt. is constituted by the depts. of archt. in the coll. and the Glasgow Sch. of Art under a jt. cttee. of governors, and issues dipls. in archt. (5 yrs.) and postgrad. dipls. in town planning (3 terms).

The dept. of indust. admin. in the coll., together with the dept. of business admin. in the Scottish Coll. of Commerce, form the Glasgow Sch. of Management Studies under a jt. cttee. of governors and make jt. provision of courses in personnel management (1 yr.), indust. manage-

ment (1 yr) and dipl. in management studies (4 yrs. pt-time). The coll. residential centre for management studies at 'Chesters', Bentsden, nr. Glasgow, has accomm. for 34 students. A sp. feature of the work of the centre is a series of about full-time courses for persons nominated by firms. In pt-time classes the coll. offers a very wide range of technol. courses at advanced and postgrad. level. Under the scheme of the W. of Scotland centre for technical educn., the coll. classes form the apex of an educn. pyramid, and pt-time students from all parts of the W. of Scotland can complete these courses at the R.C.S.T.

**RESEARCH.** Students can pursue res. for higher degrees of the Univ. of Glasgow and for coll. postgrad. dipl. In addn. to fundamental res., the coll. works in close co-operation with res. assocns. and industry. This is a sp. feature of coll. policy, which adds greatly to its res. resources and makes possible work on problems of current interest, sometimes on pilot plant and even larger scale. *Report on Research* publ. annually by coll.

**TUITION FEES.** Degree courses—engin., appl. chem., pharmacy and archit., associateship courses, and other non-degree courses, postgrad. courses, £75 p.a. Fees for courses in indust. admin. and for pt-time classes as shown in the relevant prospectuses.

**ACADEMIC YEAR.** Oct. to June: 3 terms of 10 wks each.

**GRADUATES AND FORMER STUDENTS' ASSOCIATION.** Formed in 1936. Copies of *Annual Report* of coll. circulated to all members and social functions arranged regularly. *Leave registers* of members kept by hon. sec. at the coll. Branches active in Glasgow, London, Newcastle upon Tyne, Birmingham, S. Africa, Canada and Norway.

**RESIDENCE.** Lochview Hall, 1083 Gr. Western Rd., Glasgow (tel. Kelvin 3262), accomm. 50 male students. Fees £3.13s.6d. per week.

**STUDENT ASSOCIATIONS.** The student body acts through the students' representative council and joins with others in the Scottish Union of Students. Sports ground at Cambuslang and usual facilities for indoor games. Mod. gymnasium, phys. trg. instn.

**PUBLICATIONS.** *Prospectus of Full-time Courses; Prospectus of Special & Advanced Classes, Bursaries, Scholarships & Prizes; Prospectus for the following: sch. of archit., sch. of navigation, 'Chesters' residential centre for management studies, Courses of Postgrad. Study, Environmental Control Engin. & Resources Utilization; Annual Report, Report on Research.*

## THE YEAR 1961

**RETIREMENTS.** A. B. Crawford (chem.), Prof. J. P. Todd (pharm.).

**RESIGNATIONS.** W. R. Angel (nat. philol.), apptd. lect., Heriot-Watt Coll., L. J. Crane (maths), apptd. lectr., Dub., F. de P. Hamka (indust. admin.), to Churchill Coll., Camb., R. W. Jackson (mech. engin.), apptd. to post in indust.; P. L. V. Pomella (electr. engin.), apptd. to post in indust. in Italy; R. A. M. Thomson (chem. technol.), apptd. to post in indust.; S. B. L. Wilson (maths.), apptd. lectr., Carnegie Tech.

**DEPARTS.** G. Ratley (pharm.)

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	1852	2505
Women	120	41
Total	1972	2546

**Distribution by Courses.** (a) Full-time—civil engin., 276; mech. engin., 453; chem. engin., 73; prodn. engin., 9; electr. engin., 243; environ. engin., 7; mining engin., 31; naval archit., 41; appl. chem., 114; chem., 90; metall., 109; ceram., 2; appl. phys., 62; appl. math., 34; bldg. technol., 25; textile technol., 26; food sci.,

39; appl. microbiol., 16; pharm., 160; archit., 134; town planning, 7; navigation (extra master's), 10; indust. admin., 34. (b) Part-time—civil engin., 150; mech. engin., 102; chem. engin., 19; electr. engin., 111; mining engin., 34; municipal engin., 6; naval archit., 25; prodn. engin., 25; struct. engin., 46; appl. chem., 39; metall., 2; ceram., 4; gas technol., 8; appl. phys., 11; maths, 141; bldg. technol. & quant. surv., 141; text. technol., 79; food sci., 34; microbiol., 30; pharm., 5; archit., 87; town planning, 4; navigation, 366; indust. admin., 787.

**DROPS OUT AWARDED** (by Univ. of Glasgow) (1960-61). BSc in engin.—civil, 9; mech., 29; electr., 20; chem., 12; mining, 2; appl. chem., 9; appl. chem. (metall.), 7; pharm., 22 PhD (all fees), 14. *Total number of first degrees, 100.*

**DIPLOMAS, FIC, AWARDED (1960-61).** (a) Associateships—civil engin., 37; mech. engin., 83; electr. engin., 21; chem. engin., 11; naval archit., 8; bldg. technol., 8; appl. chem., 11; chem., 15; metall., 14; appl. phys., 14; appl. maths., 3; pharm., 7; food sci., 4; appl. microbiol., 1; textile technol., 1. (b) Postgrad. dipls.—environmental control engin., 2; civil engin., 4; prodn. engin., 4; power engin. incl. nucl. power, 1; electr. engin., 4; mining engin., 4; chem. technol., 2; pharmaceut. chem., 1.

## SCOTTISH RESEARCH REACTOR CENTRE, East Kilbride.

Dir.—H. W. Wilson, BSc PhD.

# UNIVERSITY OF ST. ANDREWS§

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CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—His Grace THE DUKE OF HAMILTON, KT, GCVO, AFC, LLD

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Sir CHARLES SNOW, CBE, PhD Camb, Hon LLD *Law. & Lit.*, FRSL

PRINCIPAL AND VICE-CHANCELLOR—Sir MALCOLM KNOX, MA Oxon., LLD Edin & Paris

MASTER OF ST SALVATOR'S COLLEGE—Professor J. N. WRIGHT, MA Durh.

MASTER OF QUEEN'S COLLEGE—Professor A. A. MATHISON, QC, MA LLB Edin.

PRINCIPAL OF ST. MARY'S COLLEGE—Rev. Professor M. BLACK, MA DD DLitt Glas., DrPhil Bonn, DrTheol Mün., FBA

SECRETARY AND REGISTRAR—A. N. MITCHELL, OBE, MA Oxon.

QUESTOR AND FACTOR—J. DUNCAN, CA

JOINT LIBRARIANS—D. MACARTHUR, MA BSc Glas., FLA, J. R. BARKER, MA Camb., FLA

## TEACHING STAFF

[\* = at Queen's College; † = Part-Time]

### Anatomy

Wainman, R., MD Edin, FRCSEd Bute Prof.  
Smith, J. W., MD (Regional A) Sr Lectr.  
Frame, J., MB ChB Glas Lectr  
Mair, W. F., TD, MD Edin., MRCPed (Radiographic A) Asst  
McAdam, W. A. F., MB ChB Demr.  
Douglas, W. H. G., MB ChB Demr.  
Coupland, R. E., MD PhD Leeds Cox Prof.\*  
MacDougall, J. D. B., MD Sr. Lectr.\*  
Smart, I. H. M., MB ChB Edin Lectr.\*  
Hopwood, D., BSc MB ChB Leeds Lectr.\*  
Carruthers, R. K., MB ChB Demr.\*  
Cowley, D. J., MB ChB Demr.\*  
Stewart, E. A. C., MB ChB Demr.\*

### Astronomy

Stibbs, D. W. N., MSc Syd, DPhil Oxon Naper Prof.  
Carson, T. R., BSc PhD Belf. Sr. Lectr.  
Slebarski, T. B., MA Lectr.  
Meadows, A. J., MA DPhil Oxon. Lectr.

Biochemistry, see Physiol.

### Botany

Macdonald, J. A., BSc PhD Edin, DSc Prof  
Blackler, Margaret C. H., BSc PhD Lev, FLS Sr. Lectr.  
Weeks, D. C., BSc Melf., MA PhD Camb Lectr  
Spence, D. H. N., BSc Edin., PhD Glas. (on leave) Lectr.  
Davidson, D., BSc Durh, DPhil Oxon. Lectr.  
Crawford, R. M. M., BSc Glas., DSc Liège Lectr.  
Duncan, E. G., BSc Lectr.  
Nicolson, T. H., BSc Aberd., PhD Nott. Lectr.\*  
Hastie, A. C., BSc Glas., PhD Lond Lectr.\*  
Duff, M. F. J., BSc PhD Exe. Asst.\*

### Chemistry

... Purdie Prof., Dir. of Chem. Res. Lab.  
Horrevorts, C., MSc PhD Maastricht Sr. Lectr.  
Gunstone, F. D., BSc PhD Lev, DSc Sr. Lectr.  
Lloyd, D. M. G., BSc Brist. Sr. Lectr.  
Reid, D. H., BSc PhD Edin Lectr.  
Calvert, D., BSc PhD Lectr.  
Cameron, G. G., BSc PhD Glas Lectr.

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Wormald, I. J., BSc PhD <i>Nat</i>	Lectr.
Moyes, R. J., BSc	Asst.
Sugden, Mrs. Penelope A., BSc	St. Demr.
Walsh, A. D., MA PhD <i>Camb.</i> , FRIC	Bavins Prof.*
	[Sr. Lectr.*
Roger, R., BSc PhD, FRIC	St. Lectr.*
Copp, J. L., MA BSc <i>Oxon.</i> , PhD	St. Lectr.*
Watson, Mrs. Kathleen M., BSc PhD <i>Edu.</i>	St. Lectr.*
	Lectr.*
Hoare, D. E., MA <i>Camb.</i> , PhD <i>Leeds</i>	Lectr.*
Nechvatal, A., MSc PhD <i>Leeds</i>	Lectr.*
Bethell, D. E., MA PhD <i>Camb.</i>	Lectr.*
Foster, R., MA DPhil <i>Oxon.</i>	Lectr.*
Foster, R. P., BSc PhD <i>Leeds</i>	Lectr.*
Jamieson, J., PhD DSc <i>Wales</i> , FIP	† Lectr.*
Stewart, E. T., MSc PhD <i>Cnpr T.</i>	
	DPhil <i>Oxon.</i> , FRIC (Theoret. C.) Lectr.*
Neilson, D. G., BSc PhD	† Lectr.*
McGavin, A. S., BSc PhD	† Lectr.*
Holbrook, K. A., BSc PhD <i>Brist.</i>	Asst.*
Wright, P. G., MA PhD <i>Camb.</i>	Asst.*
Allen, C. R., BSc PhD <i>Leeds</i>	

## Classics, see Greek, and Latin

## Dentistry, see below

## Divinity

Black, Rev. M., MA DD DLitt <i>Glas.</i>	
DrPhil <i>Bow.</i> , DLitt <i>Edin.</i> , FBA	
(Bibl. Crit.) Prof.	
Bevler, J. H., MA DD <i>Glas.</i> , BD <i>Aberd.</i>	
DULowman, DLitt (Eccles. Hist.) Prof.	
Duckie, E. P., MC, BA <i>Oxon.</i> , MA	Prof.
DD <i>Edin.</i>	
Whyte, J. A., MA <i>Edin.</i>	
(Practical Theol. & Christian Ethics)	Prof.
Robinson, N. H. G., BA <i>Oxon.</i> , MA	
DLitt <i>Glas.</i> , BD <i>Edu.</i>	
(Systematic Theol.) Prof.	
Wilson, R. M., MA BD <i>Edin.</i> , PhD <i>Camb.</i>	
(N.T. Lang. & Lit.) Lectr.	
Cameron, J. K., PhD <i>Hartford</i> , MA BD	
(Eccles. Hist.) Lectr.	
Davidson, R., MA BD	
(O.T. Lang. & Lit.) Lectr.	

## Economics

Nisbet, J. W., MA LLB <i>Glas.</i>	Prof.
Cole, A. V., MA	Lectr.
Bain, C., MA	Lectr.
McDowall, S., MA	Lectr.
McLachlan, D. L., BA PhD <i>Leeds</i>	Lectr.

## Economics, Applied\*

Campbell, A. D., MA <i>Glas.</i>	Bonar Prof.
Jackson, J. M., BA <i>Wales</i> , PhD <i>Manc.</i>	Lectr.
Livesey, F., BA <i>Manc.</i>	Lectr.
Henderson, P., MA <i>Aberd.</i>	Asst.

## Education\*

Adams, J. W. L., BA <i>Oxon.</i> , MA	Bell Prof.
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McFarland, H. S. N., MA <i>Aberd.</i>	Lectr.
BEd <i>Edu.</i>	
Sturrock, G. W., BEd <i>Edu.</i> , MA	† Lectr.

## Engineering, Civil and Mechanical\*

Dick, J., BSc <i>Glas.</i> , MA <i>Oxon.</i> , PhD <i>Sheff.</i> Prof.	
McNicol, W., BSc	Sr. Lectr.
Hall, A. P., BSc PhD	
(Mech. E. & Machine Des.)	Lectr.
Gibb, A., BSc	Lectr.
Williamson, R. L., BSc <i>Leeds</i>	Lectr.
Davidson, I., BSc <i>Aberd.</i>	Lectr.
Jackson, N., BSc PhD <i>Leeds</i>	Lectr.
Craig, R. F., BSc	(Civil E. & Struct. Des.) Lectr.
Watt, D., BSc	Lectr.

## Engineering, Electrical\*

Cuthwell, E. G., OBE, MA <i>Camb.</i> , DSc	
	Watson Watt Prof.
Cruckshank, A. J. O., PhD <i>Glas.</i> , DSc	Reader
Ballantine, J. R., BSc	Lectr.
Bennet, J. A., BSc <i>Edin.</i> , PhD <i>Aberd.</i>	Lectr.
Baylis, P. E., BSc	Lectr.
McLaren, P. G., BSc	Lectr.

## English Language and Literature

Falconer, A. F., MA <i>Glas.</i> & <i>Oxon.</i>	
BLitt <i>Oxon.</i>	Berry Prof.
Oakden, J. P., MA PhD <i>Manc.</i> , DLitt	Sr. Lectr.
Logan, R. M., MA <i>Edin.</i>	Lectr.
Alexander, R. N., MA	Lectr.

## French Language and Literature

McFarlane, I. D., MBE, DUParis,	
MA <i>Camb.</i> & <i>St. And.</i>	Prof.
Brumfiel, J. H., MA DPhil <i>Oxon.</i>	Sr. Lectr.
Wilson, R. A., MA PhD	Lectr.
Owen, D. D. R., MA PhD <i>Camb.</i>	Lectr.
Ouston, P. A., MA <i>Leeds</i>	Lectr.
Priea, G., MA <i>Wales</i> , DUParis	Lectr.
Jeffery, B. K., BA <i>Oxon.</i>	Asst.
Cove, T. C., BA <i>Camb.</i>	Asst.
O'Shaughnessy, Eithne M., MA PhD <i>N.U.J.</i>	Lectr.*
3 Lecteurs	

## Geography

MacIver, Kathleen M., MA <i>Oxon.</i> ,	
PhD <i>Bain.</i>	Sr. Lectr.
Paterson, J. H., MA <i>Camb.</i> & <i>Writ.</i>	Lectr.
Whittington, G. W., BA PhD <i>Rdg.</i>	Lectr.
Jones, S. J., MA <i>Wales</i>	Sr. Lectr.*
Turner, W. H. K., MA <i>Wales</i>	Lectr.*
Jones, H. R., BA <i>Wales</i>	Asst.*

## Geology

Davidson, C. F., OBE, DSc	Prof.
Drever, H. I., BSc <i>Edin.</i> , PhD <i>Camb.</i>	Sr. Lectr.
Harvey, W. T., BSc <i>Leeds</i>	Lectr.
MacGregor, A. R., BSc <i>Glas.</i> , MSc <i>McG.</i>	
PhD <i>Camb.</i>	Lectr.
Went, J. A., BSc PhD <i>Glas.</i>	Lectr.



- Williamson, T. F., BSc  
(Topographical Surveying) †Lectr.  
Hopgood, A. M., MSc N Z Lectr.  
Walker, F., MA Camb, PhD DSc Edin Sr. Lectr.\*  
Richey, J. E., BA ScD Dub, FRS Lectr.\*  
Ramsey, D. M., BSc PhD Glas. Lectr.\*
- German**  
Carr, C. T., MA Manc, DLitt Prof.  
Brill, E. V. K., TD, MA Sr. Lectr.  
Lindsay, J. M., MA PhD Aberd. Lectr.  
Strochan, T., MA Lectr.  
Tanner, J., MA PhD Lectr.  
Branscombe, P. J., MA Oxon. Lectr.  
Robertson, A. G., MA Lectr.\*  
: Lektor
- Greek**  
Down, K. J., MA Oxon. Prof.  
Young, D. C. C., MA Oxon. & St. And. Sr. Lectr.  
Kidd, I. G., BA Oxon, MA Lectr.
- Hebrew and Oriental Languages**  
Honeyman, A. M., BD Edin, PhD Chic, MA Blitt Prof.  
Bosworth, C. E., MA Oxon & Edin, PhD Edin. (Arabic Lang. & Lit) Lectr.  
Ghul, M. A., L&L Cairo (Semitic Langs.) Lectr.  
Swain, G. G., MA BD PhD Failer (Oriental Langs.) Lectr.
- History, American and Colonial**  
Seed, G., MA Dub, AM Mich., PhD Sr. Lectr.  
King, P. J., MA Camb, AM PhD Ill. Lectr.
- History, Ancient**  
Rickman, G. E., MA Oxon. Lectr.
- History, Economic**  
Carstairs, A. M., MA BPhil Sr. Lectr.
- History, Medieval**  
Butler, L. H., MA DPhil Oxon., FRHistS Prof.  
Adams, R. J., MA Oxon. Sr. Lectr.  
West, D. E. R., MA Aberd, DPhil Oxon Lectr.  
Dobson, R. B., BA Oxon. Lectr.  
Forey, A. J., BA Oxon. Lectr.  
Walker, Lorna E. M., MA Lectr.
- History, Modern**  
Gash, N., MA BLitt Oxon, FRHistS Prof.  
Upton, A. F., MA Oxon., AM Duke Lectr.  
Collyer, C., MA Oxon Lectr.  
Dreyer, F. A., BA Oxon. & Tor. Lectr.  
Zeman, Z. A. B., BA Lond., DPhil Oxon Lectr.  
Macdonald, D. F., MA Aberd, DPhil Oxon Lectr.  
Lythe, S. G. E., MA Camb Broom Prof.\*  
Sr. Lectr.\*
- Ward, J. T., MA PhD Camb Lectr.\*  
Southgate, D. G., BA Lond., DPhil Oxon (Pol & Const. H) Lectr.\*  
Watson, D. R., MA BPhil Oxon Lectr.\*
- History, Scottish**  
Cant, R. G., MA Oxon. & St. And. Reader
- Latin (Humanity)**  
Williams, G. W., MA Dub. & Oxon. Prof.  
Mitford, T. B., MA Oxon., FSA (also Class Archæol.) Reader  
Simon, J. H., MA Oxon St. Lectr.  
Dunbar, Nan V., MA Glas. & Camb Lectr.  
Smith, M. S., MA Glas. & Oxon. Lectr.  
Marshall, M. H. B., MA Asst.
- Law, Accountancy\***  
Lowden, G. S., MA Camb., LLB, CA †Lectr.  
Smy, R. L., CA †Asst
- Law, Administrative\***  
Moore, R., BL Glas. Lectr.
- Law, Civil\***  
Hird, T. L., MA Edin, LLB Edin & Lond †Lectr.
- Law, Comparative\***  
Cowie, G. S., MA LLB Aberd. Lectr.
- Law, Conveyancing\***  
McDonald, A. J., BA Camb, LLB Edin. Prof.  
Collins, D. F., MA LLB †Tutor
- Law, Evidence and Procedure\***  
Tudhope, Mrs. Christian J., JP, LLB Edin, MA †Lectr.
- Law, Forensic Medicine\***  
Dorward, W. F., BSc MB ChB †Lectr.
- Law, Jurisprudence\***  
Bowman, B. C., LLB Edin., MA †Lectr.
- Law, Mercantile\***  
Robertson, I. M. S., BL †Lectr.
- Law, Private International\***  
Cowie, G. S., MA LLB Aberd. Lectr.
- Law, Public International\***  
Cowie, G. S., MA LLB Aberd. Lectr.
- Law, Scots\***  
Matheson, A. A., QC, MA LLB Edin. Prof.  
Parkes Smith, J. P., MA LLB †Lectr.  
Collins, D. F., MA LLB †Lectr.
- Logic and Metaphysics, see Philos.**

**Mathematics, Pure and Applied**

Copson, E. T., MA <i>Oxon</i> , DSc <i>Edin</i>	Regius Prof
Rutherford, D. E., DrMath <i>Aunt</i> , MA DSc (M. & Appl. M.)	Reader
Mitchell, A. R., PhD DSc	Sr. Lectr.
Borwein, D., BSc <i>Rand</i> , PhD DSc <i>Lond</i>	Lectr.
Fantham, P. H. H., BA DPhil <i>Oxon</i>	Lectr.
Lambert, J. D., BSc	Lectr.
Forster, Dorothy M. E., BA PhD <i>Lond</i>	Lectr.
Parahby, T. W., BSc PhD <i>Edin</i>	Lectr.
Twehell, J. B., BA PhD <i>Lond</i>	Lectr.
Jackson, J. M., BSc <i>Lond</i> , PhD <i>Cambr</i>	Baxter Prof *

Jack, H., MA <i>Edin</i> , BA <i>Cambr</i>	Sr Lectr *
Anderson, H. G., MA PhD <i>Edin</i>	Lectr *
Pearce, R. P., BSc PhD <i>Lond</i> , FRMetS	Lectr *
Rushforth, J. M., BSc PhD <i>Birm</i>	Lectr *
Sands, A. D., MSc <i>Belf</i> , PhD <i>Glas</i>	Lectr *
Adams, I. T. A. C., AM PhD <i>Prin.</i> , BSc	Lectr *
Green, C. D., BSc PhD	Lectr *
Dwyer, C., BSc	Lectr *

**Medicine and Surgery, see below****Music**

Davis, C. T., OBE, FRAM	Master of Music, Reader
Hill, C., FRCO	Deamr

**Philosophy**

Wright, J. N., MA <i>Durh.</i>	(Logic & Metaphysics) Prof.
Smith, R. N. W., MA <i>Oxon</i> & <i>Glas.</i>	Lectr.
Grieg, G. M., MA <i>Edin</i> , BA <i>Cambr</i>	Lectr.
Hakku, V., BA <i>Oxon</i>	(also Moral P.) Asst
Henderson, G. P., MA <i>Oxon</i> & <i>St. And</i>	Prof *
Cooper, N. L., MA BPhil <i>Oxon</i>	Lectr *
Hall, R., MA BPhil <i>Oxon</i>	Lectr *
Phillips, D. Z., MA <i>Wales</i>	Lectr *

**Philosophy, Moral**

Woolley, A. D., MA <i>Oxon</i>	Prof.
Kemp, J., MA <i>Oxon</i>	Sr. Lectr.
McNeill, F. S., MA <i>Glas.</i>	Lectr.
Hill, J. C., MA <i>Oxon</i>	Lectr.
Liddell, A. T. W., MA <i>Glas</i> , BPhil <i>Oxon</i>	Lectr.
Messraos, I., DPhil <i>Bnd</i>	Lectr.

**Physics**

Allen, J. F., BA <i>Manit.</i> , MA <i>Tar. &amp; Camb.</i> , PhD <i>Tar.</i> , FRS	Prof
Jack, D., MA BSc <i>Edin.</i> , PhD, FIP	Reader
Bjrl, D., MA <i>Oxon.</i> , PhD <i>Ley</i>	Reader
Osborne, D. V., MA PhD <i>Cambr</i>	Sr Lectr.
Barkla, H. M., MA <i>Cambr</i> , BSc <i>Edin</i>	Lectr.
Adams, J., MSc <i>Manit.</i>	Lectr.
McCall, D. M., BSc	Lectr.
Rushworth, F. A., BSc <i>Lond.</i> , PhD	Lectr.

Gribben, P. W. F., MSc PhD <i>Belf.</i>	Lectr.
Freston, G. D., MA ScD <i>Cambr.</i> , FIP	Harris Prof. *
Macdonald, S. G. G., MA <i>Edin</i> , PhD	Sr. Lectr. *
Burns, D. M., BSc PhD	St. Lectr. *
Barrowman, D., BSc <i>Paris</i> , Ingden/McIntyre <i>St. Bismar</i>	Lectr *
McKee, J., BSc <i>Durh.</i>	(Med. P.) Lectr *
Wilson, H. R., BSc PhD <i>Wales</i>	Lectr *
Ferner, W. G., BSc PhD	Lectr *
Young, D. W., BSc PhD	Lectr *
Killean, R. C., G. BSc	Lectr *
Braun, E. A., MSc DrRmNat <i>Prague</i> , PhD <i>Bnd.</i>	Lectr *
Tollin, P., BSc <i>Glas.</i>	Asst *

**Physics, Theoretical**

Dingle, R. B., BA PhD <i>Cambr</i>	Prof.
Kupes, C. G., BSc <i>Rand</i> , MA PhD <i>Cambr</i>	Lectr.
Jorna, S., BSc <i>W. Aust.</i>	Res Asst

**Physiology**

Ritchie, A. E., MA BSc <i>Aberd.</i> , MD <i>Edin.</i>	Chandos Prof.
Taylor, J. H., MB ChB DPhil <i>Edin</i>	Sr. Lectr.
Inglis, C. G., MB ChB <i>Aberd</i>	Lectr.
Stephens, W. G. S., BSc	(Biophys.) Lectr.
Bayne, S., BSc MB ChB	(Biochem.) Sr. Lectr.
Tustman, G. R., BSc PhD <i>Lus.</i>	(Biochem.) St. Lectr.
Goodlad, G. A. J., BSc PhD <i>Glas.</i>	(Biochem.) Lectr.
Thakell, D., BSc PhD	(Biochem.) Asst.
Wortall, Mrs. Jenn, DSc PhD <i>Nort.</i>	(Biochem.) Asst.
Moyes, Mrs. Isabel C. A., MA BM	Asst.
Bell, G. H., BSc MD <i>Glas</i> , FRFSGlas	Symers Prof. *
Cook, R. P., DSc <i>Med</i> , PhD MB	(Biochem.) Sr. Lectr. *
Andrew, B. L., DSc <i>Lond</i>	Sr. Lectr. *
Dutton, G. J. F., BSc PhD <i>Edin</i>	(Biochem.) Sr. Lectr. *
Macqueen, A. T., MB ChB <i>Edin.</i>	Lectr. *
Mitchell, F. L., BSc <i>Lus.</i> , PhD <i>Sheff</i>	Lectr. *
Hemingway, J. T., MA PhD <i>Cambr</i>	Lectr. *
Tilba, J., BSc PhD <i>Lond</i>	(Biochem.) Lectr. *
Alexander, E. R., MB ChB <i>Aberd</i>	Asst *
Cargill, D. I., BSc	Asst *

**Polish**

Selign, S. R., LL.M. <i>Poland</i> , PhD <i>Warsaw</i>	Lectr.
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**Political Science\***

Elder, N. C. M., MA BLitt <i>Oxon</i>	Lectr.
Loxley, D. M., BA PhD <i>Cambr</i>	Lectr.

**Psychology**

Ferguson, H. H., MA	Lectr.
Flood, A. J. M., BA <i>Lond.</i>	Sr. Lectr. *
Lee, T. R., MA PhD <i>Cambr</i>	Lectr. *
Loveless, N. E., MA <i>Edin.</i> , PhD <i>Durh.</i>	Lectr. *
Hobbs, A., MA <i>Aberd.</i>	Asst *

**Radiation Biology and Physics\***

Orr, J. C., MSc Belf., DIC, PhD Lond Lectr.  
 McGavin, A. S., BSc PhD Lectr.

**Scottish Language**

Marison, D. D., MA *Aberd.*, BA *Conn.* †Lectr.

**Social Administration\***

Morrison, Rhona, MA *Glas.* Lectr.  
 MacKnight, Mrs. Catherine O., MA *Edin.* †Lectr.

**Spanish**

Woodward, L. J., MA *Conn.* Sr. Lectr.  
 Gifford, D. J., MA *Blatt Oron.* Sr. Lectr.  
 Pacheco, A. R., DPhil *Barcelona*, PhD *Glas.* Lectr.  
 Cummins, J. G., BA *Manc.* Asst.

**Statistics**

Gray, J. R., BSc *Edin.*, FFA Sr. Lectr.  
 Makinson, G. J., PhD *Lond.*, BSc Lectr.  
 Faulkner, T. B., MA PhD *Conn.* Sr. Lectr.\*  
 Hutchings, K. R., BSc *Lond.* (Econ. and Soc. S.) Lectr.\*

**Theology, see Div.****Zoology**

Callan, H. G., MA *Oxon.*, DSc *Edin.* Kennedy Prof.  
 Horridge, G. A., MA PhD *Conn.* Reader  
 Burt, D. R. R., BSc, FLS Sr. Lectr.  
 Muir, C., BSc PhD *Aberd.* Lectr.  
 Laverack, M. S., BSc PhD *St'ion.* Lectr.  
 Macgregor, H. C., BSc PhD Asst.  
 Waterhouse, F. L., MSc *Manc.*, PhD Boyd Baxter Prof.\*  
 Sanderson, Ann R., BSc PhD Sr. Lectr.\*  
 Newswander-Sleppowron, R. A. J., BSc PhD Lectr.\*

**DENTISTRY\*****Dental Anaesthetics, Clinical\***

Lawson, J. I. M., MB ChB *Edin.* Lectr.  
 Nelson, N., MB ChB †Lectr.  
 Ferguson, J. G., MB ChB †Lectr.

**Dental Anatomy and Histology\***

Symons, N. B. B., BDS MSc Belf. Sr. Lectr.

**Dental Diseases of Children and Orthodontics\***

McEwen, J. D., LDS (also Lectr. in Clin. D. Surg.) Sr. Lectr.

**Dental Histopathology\***

Hall, D. C., MB ChB BChD *Leeds*, FDSRCSEd Lectr.

**Dental Jurisprudence\***

Titterton, W. R., LDS, FDSRCSEd (also Lectr. in Clin. D. Surg.) †Lectr.

**Dental Materials\***

Whyte, R., PhD LDS DPD, FDSRCSEd (also Lectr. in Clin. D. Surg.) †Lectr.

**Dental Mechanics and Prosthetics\***

Anderson, J. N., MDS *St'ion.* (also Lectr. in Clin. D. Surg.) Sr. Lectr.  
 McCrone, J. W., LDS Lectr.

**Dental Surgery\***

Hitchin, A. D., MDS DDSc *Durh.*, FDSRCSEd Boyd Prof.

**Dental Surgery, Clinical\***

Hitchin, Prof. A. D., MDS DDSc *Durh.*, FDSRCSEd Lectr.  
 Black, E. N., LDS †Lectr.  
 Conacher, F., LDS †Lectr.  
 Crighton, J. T., LDS †Lectr.  
 Milne, J. L., BDS †Lectr.  
 Davis, A. S., MB ChB LDS †Lectr.  
 Summersill, G. B., BChD LDS *Leeds*, FDSRCSEd †Lectr.  
 Muir, A., FDSRCSEd †Lectr.  
 Martin, D. A. S. †Lectr.  
 Main, D. M. G., LDS Lectr.  
 Craig, J. W., LDS DPD †Lectr.  
 Campbell, H. D., BDS *Glas.*, FDSRCSEd †Tutor

**Operative Dental Surgery and Dental Therapeutics\***

Furley, J. M., BDS (also Lectr. in Clin. D. Surg.) Sr. Lectr.  
 Jeffrey, I. W. M., LDS Lectr.

**Oral Hygiene and Preventive Dentistry\***

McHugh, W. D., BDS LDS DDSc (also Asst. Lectr. in Clin. D. Surg.) Lectr.

**Public Dentistry\***

Finlayson, D. A., LDS †Lectr.

**MEDICINE\***

(for pre-clinical subjects—Anat., etc., see above)

**Anaesthetics\***

Shearer, W. M., BSc MD, FFARCS †Lectr.  
 Souter, Mrs. Margaret E., MB ChB †Lectr.  
 Lawson, J. I. M., MB ChB *Edin.*, FFARCS †Lectr.  
 Franks, E. H., MB BS *Lond.*, FFARCS †Lectr.  
 Dangerfield, D., FFARCS †Lectr.  
 Lawrie, R., LDS †Lectr.  
 Buchanan, W. E. A., MB ChB †Tutor  
 Muir, Margaret C., MB ChB †Tutor

**Bacteriology\***

Duguid, J. P., BSc MD Edin.	Prof.
Southern, T., MD Edin.	St. Lectr.
Green, D. M., MD	Sr. Lectr.
Shepherd, W., MD	Lectr.
Dunbar, J. M., BSc MD	(on leave) Lectr.
Simmons, D. A. R., MD	Lectr.
Christison, Mrs. Jonette N., BSc	Lectr.
McMillan, Miss. Beryl Y., MB ChB	Asst.

**Child Health\***

Henderson, J. L., MD Edin., FRCPed	James Mackenzie Prof.
Forayth, Constance C., MD Edin.	Sr. Lectr.
Foe, W. M., MB ChB Edin., DFH	†Lectr.
Borst, N. R. M., MB ChB	Lectr.

**Child Health, Clinical\***

Henderson, Prof. J. L., MD Edin., FRCPed	Lectr.
Thomson, J., MB ChB Edin., FRCPed	†Lectr.
Mitchell, R. G., MD Edin.	†Lectr.

**Dietetics\***

Guy, Sheila J.	†Asst.
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**Diseases, Ear, Nose and Throat\***

Gibb, A. G., MB ChB Aberd., FRCPed	†Lectr.
Mowat, J., MB ChB Aberd., FRCPed	†Lectr.
Mitchell, J. F. O., MD Edin., FRCPed	†Lectr.
Gregson, A. E. W., MB ChB Lectr.	FRFPSSGlas

**Diseases, Infectious\***

Jameson, W. M., MD DPH	†Lectr.
Proudfoot, Mary E., MB ChB	†Clin. Asst.
Kerr, Mary R., MB ChB	Tutor

**Diseases, Mental\***

...	†Lectr.
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**Diseases, Skin\***

Buchanan, T. K., MB ChB	†Lectr.
Rogers, J., BSc MB ChB Glas.	†Lectr.
Fram-Bell, W., MD, MRCPed	†Lectr.
Main, R. A., MB ChB, MRCPed	Tutor

**Forensic Medicine\***

Dorward, W. F., BSc MB ChB	†Lectr.
Turnbull, Patricia E., MB ChB Edin.	†Asst.
Dorward, W. F. M., MA MB ChB Edin.	†Asst.

**Geriatrics\***

Brown, O. T., MB ChB Glas., FRFPSSGlas	†Lectr.
Simpson, R. G., MD Aberd., MRCP	Lectr.
Ritchie, R. T., MB ChB Edin., MRCPed	†Lectr.
Cohen, C., MB ChB Glas., MRCPed, FRFPSSGlas	†Lectr.

**Gynaecology and Midwifery\***

Walker, J., BSc MD Glas., FRCOG	Prof.
Macnaughton, M. C., MB ChB Glas.	Sr. Lectr.
Coyne, Mary G., MD Glas.	Lectr.
Blackledge, G. D., MA MB BChir Camb	Lectr.

**Gynaecology and Midwifery, Clinical\***

Walker, Prof. J., BSc MD Glas., FRCOG	Lectr.
Hatting, Jean, BSc MB ChB, FRCPed, FRCOG	†Lectr.
Fraser, I. T., MB ChB Edin., FRCPed	†Lectr.
Reid, S. M., MA MB ChB Aberd.	Lectr.
Buchan, A., MB ChB Aberd., FRCPed	†Lectr.
Macnaughton, M. C., MB ChB Glas.	Lectr.
Coyne, Mary G., MD Glas.	Lectr.
Giffen, W. D., MB ChB Edin., FRCPed	†Lectr.
Blackledge, G. D., MA MB BChir Camb.	Lectr.
Miller, W. G., MB ChB Glas., FRCPed, FRFPSSGlas	Lectr.
Miller, Marion C., MB ChB	Tutor

**Materia Medica, see Pharmacol****Medicine\***

Hill, I. G. W., CBE, TD, MB ChB Edin., FRCPed, FRCP	Prof.
Lennox, J. A. R., MB ChB Edin., MRCPed (Neurol)	Sr. Lectr.
Stewart, W. K., MB ChB, MRCP	Lectr.
Emshie-Smith, D., MD Aberd., MRCPed	Lectr.

**Medicine, Clinical\***

Hunter, Prof. R. B., MBE, MB ChB Edin., FRCPed, MRCP	Lectr.
Hill, Prof. I. G. W., CBE, TD, MB ChB Edin., FRCPed, FRCP	Lectr.
Clark, J. G., MD	†Lectr.
Easton, I. D., OBE, MB ChB Edin., FRCPed	†Lectr.
Adamson, D. G., MD, MRCP	†Lectr.
Walker, W., MA MB ChB, MRCP	Lectr.
Lowe, K. G., MD, FRCPed, MRCP	Lectr.
Temple, R., MD Aberd., MRCP	†Lectr.
Frew, J. S., BSc MB ChB Glas., MRCP	†Lectr.
Wilson, W. M., MB ChB Edin., FRCPed	†Lectr.
Macleod, G. D., MB ChB Edin., FRCPed	†Lectr.
Armstrong, J. R., MA MD Camb.	†Lectr.
Stevens, W. T., MD Hamburg, FRFPSSGlas	†Lectr.
McNeill, R. S., MB ChB Edin., MRCPed	†Lectr.
Stalker, A. M., MB ChB	†Asst.
Lawson, J. A. R., MB ChB	†Asst.
Brookbridge, A. M., BSc MB ChB	†Asst.
Watson, H., MB ChB Edin., MRCPed	†Tutor

**Medicine, History of\***

Patrik, Emer Prof. A., MA MD Glas., LL.D Glas. & St. And., FRFPSSGlas	†Lectr.
FRCT, FRCPed	

## Midwifery, see Gynaecol.

## Ophthalmology, Clinical\*

Douglas, A. A., BSc MD ChM DPH, FRCSEd	†Lectr
Mathew, R. M., MB ChB	†Lectr
Tulloch, A. K., MB ChB	†Lectr.
Wyse, C. T., MB ChB	†Clin. Asst.
Wise, R., BA MD Hons	†Clin. Asst

## Orthopaedics\*

Smilne, I. S., OBE, MB ChM Edin., FRCSEd, FRFPSSGlas	†Lectr
Hutchison, J., MB ChB Glas., FRCSEd	†Lectr.
Sutherland, I. D., MD Edin., MChOrth	
Liv., FRCSEd	†Lectr
Murdoch, G., MB ChB, FRCSEd	†Lectr.
Clith, G. L., MB ChB Glas., FRCSEd, FRFPSSGlas	†Tutor
Campbell, C. S., MB ChB Edin., FRCSEd	†Tutor
Robertson, A. A., MB ChB Glas., FRCSEd	†Tutor

## Pathology\*

Londrum, A. C., MA BSc MD Glas.	Prof
Paik, W. W., MD Edin.	Sr. Lectr.
Goodall, H. B., MD	Sr. Lectr
Morgan, H. G., BSc MB ChB, MRCPEd	St. Lectr
Smith, G. H., TD, MD	†Lectr.
Prans, J. H., MD	†Lectr.
Rhazay, K., MB ChB Edin., MRCPEd	†Lectr.
Cameron, C., MB ChB Glas.	†Lectr
Guthrie, W., MB ChB	Lectr.
Barclay, G. P. T., MB ChB Edin.	Lectr.
Todd, A. S., MB BS Durk.	Lectr.
Kirkland, J. A., MB ChB	Lectr.
Duguid, Helen I. D., MD Aberd	†Asst.
Briggs, Elizabeth M. G., MB ChB	Asst.
Napier, T. G., MB ChB	Asst
O'Donnell, J. J. G., MB BCh BA O N U I.	Asst.
Doug, R. L., MB ChB	Asst.
Duncan, Anne, BSc	Asst.
Fittos, Annabelle, BSc	Asst
Boswell, J., MB ChB	[Dent.

## Pathology, Clinical\*

Goodall, H. B., MD	Lectr.
Morgan, H. G., BSc MB ChB, MRCPEd	Lectr.

## Pharmacology and Therapeutics\*

Hunter, R. B., MBE, MB ChB Edin., FRCPEd, MRCP	(Materia Medica) Prof
Walker, W., MA MB ChB, MRCP	(Therapeutics) Sr. Lectr.
Marshall, P. B., BPharm BSc PhD Lond.	(Pharmacol.) Sr Lectr.
Shepherd, D. M., BSc PhD	(Pharmacol.) St. Lectr.
McNeill, R. S., MB ChB Edin., MRCPEd	(Therapeutics) †Lectr.
Matty, A. J., BSc Lond., PhD Natl.	(Compar. Pharmacol.) Lectr.

Sprunt, J. G., BSc MB ChB

Brownie, A. C., BSc PhD Edin.	(Therapeutics) Lectr.
Boullan, D. J., BSc Lond	(Pharmacol.) Lectr
Grayson, M. F., BSc MB ChB Burn.	(Therapeutics) Asst.

## Psychiatry\*

Batchelor, I. R. C., MB ChB Edin., DPM Lond., FRCPEd	Prof.
Uytman, J. D., MB ChB Glas., DPM Lond.	Sr. Lectr.

## Psychiatry, Clinical\*

Uytman, J. D., MB ChB Glas., DPM Lond	Lectr
Macrae, M. M., MD Edin., DPM Manc.	(Mental Deficiency) Lectr
Aungie, P. G., MB ChB Edin., DPM Lond., MRCPEd	[Lectr.
Powles, H. C., MB ChB	Lectr.
McHarg, J. F., MB ChB DPM Lond., FRCPEd	Lectr.
Baker, P. A., MB BS Lond., MRCPEd	(Child Psychiatry) Lectr
Reese, R. A. B., MD	[Clin Asst.

## Psychology, Clinical\*

McGhie, A., MA PhD Glas.	Lectr.
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## Public Health and Social Medicine\*

Mast, A., MD DPH Aberd., DIH	James Mackenzie Prof
Simpson, J., MD Glas., DPH	Sr. Lectr.
Graham, H. A., BSc MD, FRCSEd	(Soc. Med.) [Lectr.
Wen, I. B. L., BSc MB ChB DPH Glas.	(Pub Health) †Lectr.
Riddell, G. S., MD Aberd., DPH	[Lectr.
Taylor, W., BSc PhD MB ChB Edin.	(Indust. Med.) [Lectr.
Thomas, R. G., MB ChB Le., DPH	(Admin. Med.) [Lectr.
Johnston, J. K., BL Edin	(Admin. Med.) [Lectr.

Darward, W. F., BSc MB ChB	(Community Immunization (Vaccination)) [Asst.
Quakley, J. A.	(Phys. Educn.) [Asst.
Gouldie, W. S.	(Town Planning) [Asst.
Rankine, D. B. L., MB ChB	(Occupat. Health) [Asst.
Small, R. G., MB ChB DPH	[Asst.

## Radiology and Radiotherapy\*

Riley, J. F., MD DMR Edin., PhD, FRCSEd	(Expos. Med.) [Reader
Swanson, W. C., MB ChB Glas., DMR Edin.	†Lectr.
Pickard, C., BSc MD Leeds	†Lectr.

Dewar, D. A. E., DMR *Edin.*, MB ChB, FFR  
 Howie, G. F. A., MB ChB DMRD *Edin.*, MRCPed, FFR

†Lectr.  
 †Lectr.

## Surgery\*

Douglas, D. M., MBE, MS *Minn.*, MB ChM, FRCSed, FRCS  
 Grievie, J., BSc MD ChM, FRCSed, Sr Lectr.  
 Walker, W. F., MB ChM, FRCSed, FRCS  
 Ogilvie, R. R., BSc (Biochem) Lectr.

## Surgery, Clinical\*

Douglas, Prof. D. M., MBE, MS *Min.*, MB ChM, FRCSed, FRCS Lectr.  
 Campbell, W. G., MB ChM LDS, FRCS †Lectr.  
 Sturrock, G. M., MB ChB *Edin.*, FRCSed †Lectr.  
 Grievie, J., BSc MD ChM, FRCSed Lectr.  
 Souter, S. F., MB ChB, FRCSed †Lectr.  
 Charleston, C., BA BM BCh *Oxon.*, FRCSed †Lectr.  
 Kirkpatrick, E. R. G., MB ChM *Syd.*, FRCSed †Lectr.  
 Kinnear, J. S., MB ChB, FRCSed †Lectr.  
 Walker, W. F., MB ChM, FRCSed, FRCS Lectr.

Anderson, C. J. B., MB ChB *Aberd.*, FRCSed †Lectr.  
 Clark, J. A. L., MB ChM *Edin.*, FRCSed †Lectr.

Kirk, J., MB BS *Leid.*, FRCS (Plastic S.) †Lectr.  
 Blum, J. S. G., BA *Leid.*, MB ChB, FRCSed †Tutor  
 Kerr, G., DFC, MB ChB, FRCSed †Tutor

## Tuberculosis\*

Smith, D. H., MD †Lectr.  
 Johnston, R. N., MD *Aberd.*, MRCP †Lectr.  
 Lockhart, W., MB ChB *Glas.* †Tutor

## Venereal Diseases\*

Keay, D. M., MB ChB DPH †Lectr.  
 Finnigan, Miss Jeannie P., MB ChB DPH †Tutor

## GIFFORD LECTURER IN NATURAL THEOLOGY

1962-63, 1963-64—Rev. Prof. H. Chadwick, MA  
*Oxon.*, Hon. DD *Glas.*, DD *Camb.* & *Oxon.*,  
 MusB *Camb.*, FBA

## ADMINISTRATIVE AND OTHER STAFF

[\*—at Queen's College]

UNIVERSITY OFFICES. Secretarial Staff: P. Cumming, MA LLB *Aberd.*\*, D. M. Devine, MA *Glas.*, LLB *Leid.*; W. W. Tweedie, B.L. *Glas.*; D. Douglas, DSO\*; D. P. Deaward, MA LLB; D. Connolly, BA *Oxon.*\*, A. J. G. Brown\*; J. G. N. Fraser, MA LLB *Aberd.*.  
 Quonsetorial Staff: G. C. Taylor, CA; G. N. Fraser, CA\*. Univ. Solicitor: W. B. Northwick, LLB *Glas.*, MA.

LIBRARY. St. Andrews: Sub-Librarian, D. W. Doughty, MA *Camb.*. Dundee: Sub-Librarian, A. N. Cass, MA *Camb.*

RESIDENT ARCHITECT. J. M. Miller. Asst. Architect: G. A. D. Hammond.

APPOINTMENTS BOARD. Sec.: A. Smith, MA.

MEDICAL OFFICERS, STUDENT HEALTH SERVICE. St. Andrews: W. F. Muir, TD, MD *Edin.*, MRCPed. Queen's Coll., Dundee: . . .

ISOTOPE LAB. Radiation Protection Officer and Physicist-in-Charge: J. C. Orr, MSc *Belf.*, DIC, PhD *Leid.*

PHYSICAL TRAINING INSTRUCTORS. St. Andrews: Edna Haydock; A. S. Strachan, BSc *EdB Glas.*. Dundee: Audrey W. Brown; J. A. Quikley.

ADVISERS OF STUDENTS. St. Salvator's Coll.: in Arts, G. Seed, assttd. by L. J. Woodward, A. M.

Croxtairs, R. M. Logan, J. Kemp, in Sci., Dr. F. D. Gunstone, D. R. R. Butt, Dr. F. A. Rushworth; in Med., Prof. A. E. Ritchie. Queen's Coll., Dundee: in Arts, S. G. E. Lythe; in Sci., Dr. J. M. Jackson, Dr. J. L. Copp, H. Jack; in Med., Prof. G. H. Bell; in Appl. Sci., Prof. J. Dick; in Dent., Prof. A. D. Hitchin; in Law, B. C. Bowman; in Soc. Sci., S. G. E. Lythe.

WARDENS OF RESIDENCES. St. Andrews: St. Salvator's Hall, J. H. Taylor, MB ChB *Edin.*, DPH, Hamilton Hall, G. J. Makinson, PhD *Leid.*, BSc; St. Regulus Hall, A. M. Hoggood, MSc *N.Z.*, Hepburn Hall, M. Smith, MA *Glas.* & *Oxon.*, Deans Court, . . . , Kinnessburn, T. B. Mitford, MA *Oxon.*, FSA; University Hall, Lewis E. M. Walker, MA; Macintosh Hall, Mrs. Christine J. Tudhope, JP, LLB *Edin.*, MA; Abbotford House, Kathleen M. Macleiver, MA *Oxon.*, PhD *Edin.*. Dundee: Arrie Hall, H. S. N. McFauland, MA *Aberd.*, BED *Edin.*, West Park Hall, Rhona Morrison, MA *Glas.*

LODGINGS OFFICERS. St. Andrews: Mrs. Mary Y. Cumming, MA (also warden to non-resident students). Dundee: Mrs. Wilhelmina Taylor.

CHAPELAINS. St. Salvator's & St. Mary's Coll.: Rev. E. G. Sangster, MA BD *Aberd.*, MTh U.T.S. (Va.). Queen's Coll., Dundee: Rev. G. M. Bruce, MA BD *Aberd.*

## GENERAL INFORMATION

The univ. founded in 1410, is the oldest in Scotland. St. Salvator's Coll. was founded in 1450 and St. Leonard's Coll. in 1512. The 3rd St. Andrews coll., St. Mary's, founded in 1537, has, since 1579, been restricted to the teaching of theol. In 1747 the colls. of St. Salvator and St. Leonard were amalgamated to form the United Coll. of St. Salvator and St. Leonard, now generally known as St. Salvator's Coll. University Coll., Dundee, founded in 1881, was in 1897 affiliated to the Univ. of St. Andrews, and at the same time the conjoint medical sch. was established in Dundee. Under the Univ. of St. Andrews Act, 1953, Univ. Coll., Dundee, and the conjoint med. sch. were merged into a new coll. of the univ. subsequently named Queen's Coll.

St. Andrews (pop. 9000) is a university town and holiday centre on the coast of Fife, 30 miles N.E. of Edinburgh.

**CONSTITUTION.** Under the Univ. of St. Andrews Act, 1953, the univ. comprises 3 colls., being unincorporated societies of teachers and students. The univ. court is a body corporate with perpetual succession and a common seal, and all the property belonging to the univ. is vested in the univ. court. The above coll. also set up the council of the United Coll. of St. Salvator and St. Leonard and St. Mary's Coll., and the council of Queen's Coll., and empowers the univ. court to delegate various functions to these councils.

The *senatus academicus* is responsible for the general supervision of teaching and discipline. The chancellor, who is elected by the general council and holds office for life, is empowered to appoint a vice-chancellor who may in his absence discharge his office in so far as regards conferring degrees but in no other respect. By a convention uniformly observed since 1858 the principal of the univ. is apptd. vice-chancellor. The rector, who is elected by the matriculated students of the univ. and holds office for 3 yrs. is the ordinary president of the univ. court; he also presides over the general council in the absence of the chancellor.

**INCOME (1960-61).** Total income, £1,289,503 (endowments, 2.2 per cent.; donations, 0.2 per cent.; govt. grants, 81.1 per cent.; fees, 10.5 per cent.; salaries, 2.6 per cent.; sundries, 3.4 per cent.).

**FACULTIES AND DEANS.** *Appl. sci.*, Prof. J. Dick (civil & mech. engin.); *arts*, Prof. K. J. Dover (Greek); *div.*, Prof. N. H. G. Robinson; *law*, Prof. A. J. McDonald (conveyancing); *med.*, Prof. R. B. Hunter (pharmacol. & therapeutics); *sci.*, Prof. A. E. Ritchie (physiol.), *see. sci.*, Prof. A. D. Campbell (appl. econ.).

**LIBRARIES** at St. Andrews and Dundee. Approx. 600,000 printed vols. (some of 15th and 16th cents.). MSS. incl. fine Persian specimens and large folio autophanotum.

**MUSEUMS** at St. Andrews—*nat.*, *anthropol.*,

*ethnol.*, *geol.*, *mineral.*, *nat. hist.*; at Dundee—*geol.*, *med.*, *nat. hist.* **LABORATORIES** at St. Andrews—in all above depts. except *med.*, also *chem.* (with *sp. res. lab.*), *marine*, *phys.*, *astron.* (observatory), *physiol.*, *bot. garden*, at Dundee—*anat.*, *bacteriol.*, *chem.*, *embryol.*, *engin.* (electr., hydraulic, mech.), *nat. med.*, *maths.*, *nat. hist.*, *pathol.*, *phys.*, *physiol.*

**TEACHING HOSPITALS.** Dundee—Royal Infirmary, Maryfield H., King's Cross Infectious Diseases H., Royal Mental H., Ashfield H.; Perth—Royal Infirmary, Budge of Barn H.; Brechin—Serrantho H.

**ADMISSION.** *See* Appendix III.

**FIRST DEGREE.** MA ord., MA ord. in soc. sci., BSc ord., BSc ord. in engin., LLB, 3 yrs., MA hon., MA hon. in soc. sci., BSc hon., BSc hon. in engin., 4 yrs., BDS, 5 yrs.; MB ChB, 6 yrs.

Courses for graduation in arts and sci. are given both in St. Salvator's Coll., St. Andrews, and in Queen's Coll., Dundee, some being given in both places, some (Greek, Hebrew, Latin, Spanish, music) only in St. Andrews, some (engineering) only in Dundee; *med.*, after the first 2 yrs. and 2 terms, and *dent.*, solely in Dundee, whose facilities for clin. instruction are available. In Dundee also are provided courses for graduation in law and in soc. sci.

The MA ord. degree course (3 yrs.) includes a gen. and a sp. exam. The former comprises 5 subjs. which must incl. (a) logic or moral philos. (b) Latin or Greek or Hebrew or maths. and a lang. other than Engl. or a mod. foreign lang. In the sp. exam a cognate subjs. must be taken, the whole exam. being passed at one time. The curriculum for the MA hon. degree extends over 4 yrs. and involves first passing the gen. exam. as a whole (candidates for hon. normally include in the general exam. the 2 subjs. which they propose to take to hon. standard), except that candidates offering an hon. group in langs. or hist. or maths. and sci. are not required to pass more than 4 subjs. in the gen. exam. The final hon. exam. is taken at the end of the 4th yr. Hon. may be taken in any of the following groups: Engl. lang. & lit.; French lang. & lit.; German lang. & lit.; *mediæv.* & mod. hist.; mod. hist.; econ. & appl. econ.; Engl. with French or German or Greek or logic & metaphysics or *mediæv.* hist. or mod. hist. or moral philos. or Spanish, French with Arabic or German or Spanish, German with Spanish; Spanish with Arabic; Romance langs. with Arabic or Hebrew; Latin with Greek, Greek with Hebrew or logic & metaphysics or moral philos., Hebrew with Arabic; logic & metaphysics with maths. or moral philos. or nat. philos. or pol. econ. or econ. or psychol. or mod. soc. & econ. hist. or pol. sci.; *mediæv.* hist. with geog. or moral philos. or pol. econ., mod. hist. with geog. or moral philos. or pol. econ., psychol. with moral philos. or econ.; geog. with pol. econ. or econ. or pol. sci., pol. econ. with moral philos., *maths.*

with appl. maths. or astron. or chem. or nat. philos. or pol. econ. or econ.; nat. philos. with appl. maths. or econ. or mod. soc. & econ. hist. or moral philos. or pol. sci.; pol. sci. with moral philos. or mod. soc. & econ. hist. with moral philos. or pol. sci. or geog.

The MA (soc. sci.) ord. degree course (3 yrs.) includes an exam. divided into 3 pts. Pt. I is based on an inter-dept. course, taking the whole of the 1st yr. and incl. hist., pol. sci., econ., geog., philos., psychol. Pt. II comprises 3 subjs.: (i) econ., (ii) philos., (iii) one from a list incl. law and ling. as well as soc. sci. subjs. In pt. III of the exam., a soc. sci. subjs. are taken at an advanced level, the whole exam. being passed at one time. The curriculum for the MA (soc. sci.) honours degree (4 yrs.) involves passing pt. I of the exam. for the ord. degree. The honours exam. is taken at the end of the 4th yr. Hons. may be taken in (a) econ., (b) geog., or (c) any of the following groups: econ. & maths.; psychol. & maths.; any 2 of econ., geog., mod. soc. & econ. hist., philos., pol. sci., psychol.

The BSc ord. degree in pure sci. is a 3-yr. course embracing 7 subjs. with a 1st exam. (at least 4 subjs.) and a 2nd (at least 2 subjs.). The honours degree in pure sci. is a 4-yr. course. After the 1st yr. there is a 1st exam. in 3 subjs. and after the 2nd yr. a 2nd exam. in 2 subjs. The last 2 yrs. are devoted to advanced study in a single honours subjs. or approved group of a honours subjs., followed by an honours exam. Hons. may be taken in any 1 of anat., appl. maths., astron., biochem., bot., chem., geol., maths., pathol., pharmac., phys., physiol., zool., or in 1 of the following groups: phys. with theoret. phys., maths or appl. maths. with astron. Hons. candidates may make application for exemption from 3 subjs. and for permission to take the 1st exam. in these subjs. before 1st matric.

The BSc ord. degree in appl. sci. is a 3-yr. course and the honours degree a 4-yr. course. Both degrees can be taken in civil, elect., mech. or gen. engin. or in electronic phys. Hons. candidates may make application for permission to take the 1st exam. before 1st matric., and if they then pass in all 4 subjs. or in all subjs. less engin. drawing they may then obtain the honours degree in 3 yrs.

**HONOURS DEGREES.** EdB, 2 yrs. after 1st degree; BD, 3 yrs. after 1st degree or other recog. degree or dipl.

DLitt, 5 yrs. after MA honours, BPhil, BLitt, BSc honours, or EdB; BPhil, by dissertation, 1 yr. after previous degree in arts or div.; BLitt by exam., either concurrently with or after MA honours degree; MSc, by thesis at least 4 terms after 1st degree; DSc, 7 yrs. (3 yrs. in appl. sci.) after 1st degree; MD or ChM, 1 yr. after MB ChB, candidate must be at least 24; MDS, a yrs. after 1st dent. degree by exam. and thesis; DDS, 5 yrs. after 1st dent. qualif., which may be LDS if candidate also holds degree in fac. of med. or sci. of a British or approved overseas univ. and is a

member of teaching staff, PhD, normally 3 yrs. after 1st degree which, in exceptional cases, may be reduced to 2 yrs.; LL.D., 7 yrs. after graduation. The LL.D. may also be awarded as an honorary degree. The DD is honorary only.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS.** Educn., for grads who complete 1st yr. of the EdB course; soc. admin., for grads., at least 1 yr.; DPH and DIndustH, and DPD, 1-yr. courses which cannot be taken until a yrs (DPD, 1 yr.) after attaining professional qualif.

**CERTIFICATES.** Soc. admin. (for non-grads.), a yrs.; LitTheol (for non-grads.), 3 yrs.

**FEES.** Annual fees (incl. tuition, matric. and exam. fees and use of labs.), arts, soc. sci., div., educn. and law, £60, sci., appl. sci., med. and dent., £75. Lab. deposits and fees for field courses payable in addn. Fees for higher degrees: DLitt, LL.D., DSc, each £25, MD, ChM, MDS, DDS, each £30, BPhil, BLitt, each £60, PhD, MSc, each £75 (£60 without lab. facilities). Annual students' union sub. (not compulsory), £2 10s (Queen's Coll., £3).

**ACADEMIC YEAR.** Oct. to June: a term of 10 wks. and 1 term of 9 wks.

**EXTRA-MURAL CLASSES.** No extra-mural classes conducted directly by the univ., but the univ. is represented on a citie which organizes such classes in counties of Fife, Perth, Kinross, Clackmannan and Angus and in city of Dundee.

**ENTRANCE SCHOLARSHIPS.** Scholarships of £100 p. a. and bursaries of up to £60 p. a. available for award on results of competition held annually in March.

**APPOINTMENTS BOARD.** The appts. bd. exists for the dual purpose of helping grads. to find suitable employment and advising students on careers open to them and the most suitable courses to follow with a view to ensuring particular employment. The bd. has offices at 81 North St., St. Andrews (tel.: 750), and 10 Park Pl., Dundee (tel.: 23181).

An **ALUMNUS ASSOCIATION** was founded in 1946. Alumnus clubs exist in Aberdeen, Edinburgh, Glasgow, the Borders, Yorkshire, Manchester, Birmingham, London, Newcastle upon Tyne, Toronto, Rhodesia, Johannesburg, Malaya, Victoria and New York. Information may be obtained from the sec., alumnus assocn., the University, St. Andrews.

**RESIDENCES.** (For wardens, see 'Admin. and Other Staff', above). For women: St. Andrews (fcs.: from £141 per session)—University Hall (tel.: 720) (comprising Lumsden Wing, 150 students; Old Wing, 80 students; Wardlaw Wing, 40 students); Macintosh Hall, 138 students (tel.: 824); Abbotsford House, 41 students (tel.: 1481). Dundee (fcs.: from £141 per session)—West Park Hall, 84 students (tel.: 67169). For men: St. Andrews (fcs.: £150 per session, except Deans Court for which rates are slightly higher)—St. Salvator's Hall, 132 students (tel.: 649); Deans Court, 25 reg. students (tel.: 649).



1185); St. Regulus Hall, 100 students (tel. 136); Hepburn Hall, 25 students (tel. 137); Hamilton Hall, 103 students (tel. 1086); Kinnessburn, 25 students (tel. 727) *Dawfee*—Aulse Hall, 167 students (tel. 24496) (fee from £154 per session). In each case the charge for residence is exclusive of tuition fees.

**UNIVERSITY TRAINING (T.A.) Corps** Establd. 1908 as O.T.C.; reorganized 1948. Units: infantry, signals, med., intelligence, W.R.A.C. H.Q.: 16 Park Wynd, Dundee (tel. 23577); St. Andrews—Units: Wyvern, St. Andrews (tel. 1262) **UNIV. AIR SQUADRON** Full course of 112, both flying and ground, conducted by fully qualified R.A.F. pilots. H.Q.: 83 North St., St. Andrews (tel. 939). **ROYAL NAVAL RESERVE**, Tay division (H.M.S. *Cherry*, Dundee) (tel. 22263). Students carry out 3 wks. trg. at sea during vacation. Women students may enrol in the W.R.N.S., Tay division, R.N.R.

**STUDENT HEALTH SERVICE** Med. officer provides gen. practitioner service at St. Andrews. At Dundee a student health officer provides an advisory and consultative service and gives minor

and first-aid treatment. The service can be used without charge by all matriculated students. Compulsory chest X-ray for all entrant students. Consulting rooms: Kennedy Hall, St. Andrews, and 5 Airline Tee, Dundee.

**ATHLETIC UNION** The athletic union is a federal body for co-ordination of all student athletic activities. In both St. Andrews and Dundee there are extensive playing-fields laid out for all the major field sports, and also well-equipped gymnasiums. There are dirs. of phys. trg. for men and women students both in St. Andrews and Dundee.

**STUDENTS' UNIONS** In St. Andrews and Dundee, unions for both men and women students adjoin the coll. bldgs. In addition to usual club facilities, the unions provide lunches at low cost.

**PUBLICATIONS** *Calendar* (Oct.), £1; *alumni association's Chronicle* (yrlly.), students' representative council's *College Echoes: Histories: A Short History of the Univ. of St. Andrews*, by R. G. Cant (Oliver & Boyd, 1946); *The Coll. of St. Salvator*, by R. G. Cant (Oliver & Boyd, 1950).

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: tower and front bldg., Queen's Coll. (library, class-rooms, ref. rooms and admin.). *Approaching completion*: women's hall of residence, St. Salvator's Coll. (to accomm. 150); O.T.C. bldg., Queen's Coll.

**RETIRED** G. H. Bushnell (librarian), Dr. W. M. Dackie (librarian, Queen's Coll.), \*Dr. Dora W. Gerrard (child health); \*M. J. Gibson (ear, nose & throat); Dr. K. C. Hayens (Geriatrics); W. M. Mackay (elect. engin.), D. J. B. Ritchie (sec. & registrar), Dr. Isobel A. Smith (chem.).

**REGISTRARS** Dr. P. G. Blake (chem.), Dr. D. M. Carr (orthop.), J. Erickson (mod. hist.), Prof. R. C. Johnston (French), apptd. to chair of French, Westfield Coll., Lond.; Dr. D. M. C. MacEwan (phys.); Rev. S. R. MacKintosh (chaplain, Queen's Coll.); P. J. O'Leary (pol. econ.), Dr. J. R. Ramsay (anat.); Dr. E. A. Smith (pub. health); J. N. Smith (Engl. lit.); B. R. Singer (psychol.), Rev. R. D. Speirs (chaplain, St. Andrews colls.); Dr. J. M. Stowess (med.); Dr. A. C. Turnbull (midwifery); Dr. G. F. Walton (phys.).

**DEATHS.** Prof. D. E. Innes (prof. of geol., 1936-54); Jean S. Pittison (lect. in econ.); Dr. A. H. Read (lect. in maths); Emer. Prof. H. J. Rose (prof. of Greek, 1927-53); Emer. Prof. H. W. Turnbull (regius prof. of maths., 1921-50); Dr. F. T. Wainwright (sr. lect. in dark age studies).

**HONORARY DEGREES** LL.D.—Sir Francis Iham, governor, E. Nigeria; H. H. Plaskett, former Savilian prof. of astron., Oxford; L. B. Wright, dir. of Folger Shakespeare Library, Washington,

D.C. DD—J. Convoisier, prof. of ch. hist., Univ. Geneva; J. G. M. Hoffman, prof. of ch. hist., fac. of protestant theol., Paris; Rev. M. E. Macdonald, minister of St. George's West, Edinburgh.

## Statistics

**STUDENT NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1887	8
Women	964	3
Total	2851	11

**Distribution by Faculties.** *Appl. sci.*, 186; *arts*, 922; *div.*, 37; *law*, 82; *med.*, 598; *sci.*, 831; *soc. sci.*, 206. **Total**, 2862.

*Included in the figures above are*—

Postgraduate students, 243.

New admissions (graduating), 775.

Students from other countries, 246. (Countries from which largest numbers came: U.S.A., 44; Nigeria, 17; Ghana, 15; India, 13; Uganda, 13).

**DEGREES AWARDED (1960-61).** *Appl. sci.*: Ph.D., 1; BSc. hon., 3; BSc., 30. *Arts*: Ph.D., 1; EdB., 2; MA hon., 94; MA, 123. *Div.*: BDS, 20. *Div.*: Ph.D., 4; BPhil., 1; BD., 1. *Law*: LLB., 3; BL., 6. *Med.*: Ph.D., 2; MD., 3; ChBd., 1; MB ChB., 57. *Soc. sci.*: DSc., 1; MSc., 2; Ph.D., 11; BSc. hon., 66; BSc., 88. *See also*: MA, 1, hon. granted subsequent to graduation; *appl. sci.*, 8; *arts*, 8; *sci.*, 34. **Total number of first degrees awarded**, 488.

**DIPLOMAS AWARDED (1960-61).** DipEd., 27; DPH., 4; DipSocAdmin., 5; DFD., 4.

\*—from Queen's Coll.

# NORTHERN IRELAND

[Information compiled as at 1/8/62]

## QUEEN'S UNIVERSITY OF BELFAST\*

Founded 1908; previously established as Queen's College, Belfast, 1843

Postal Address: Belfast 7, Northern Ireland

Cables and Telegrams: University, Belfast, Northern Ireland

Telephone: Belfast 30111

VISITOR—H.M. THE QUEEN

CHANCELLOR—Field-Marshal THE VISCOUNT ALANBROOKE, KG, GCB, OM, GCVO, DSO, Hon. LLD Oxon., Camb., Bristol, Lond., Leic., Edin. & Belg.

PRO-CHANCELLOR—The Rt. Hon. LORD MACDermott OF BELMONT, MC, Hon. LLD Edin. & Belg., Lord Chief Justice of N. Ireland; Sir FRANK P. MONTGOMERY, MC, DMRE Camb., MB, FFR

PROVOST AND VICE-CHANCELLOR—M. GRANT, CBE, MA Lond Camb., Hon. LIND Dub., FSA  
REGISTRAR—...

HONORARY TREASURER—W. R. KNOX, FCA

LIBRARIAN—P. HARVARD-WILLIAMS, MA Wales

SECRETARY—G. R. COWIE, JP, MA LLB Aberd

BURSAR—G. D. BURLAND, BA BComm Dub.

CHAIRMAN OF CONVOCATION—Professor M. J. BOYD, MA Oxon., BA

### TEACHING STAFF

[† = Part-Time]

Accounting, see Econ	ApSimon, A. M., DiplArchaeol Lond., BA	Lectr
Agriculture, see below	1 Res. Asst.	
Anatomy	Biochemistry	
Pritchard, J. J., BSc Adel., MA BCh DM Oxon	Harrison, D. C., DSc Lond., PhD Camb.	Prof. J. C. White Prof.
Morton, W. R. M., MA Camb., BSc MD (Embryol)	Malpass, F. H., BA Oxon., PhD R'g.	Reader
Scott, J. H., MD DSc LDS (A. for Dent. Students)	Leslie, I., BSc Aberd., PhD Glas.	Reader
Harrison, T. J., MD PhD	Elmore, D. T., BSc PhD Lond	1 Res. Asst.
Bridges, J. B., BSc MD		
Vincent, S. A., MB, FRCS	Botany	
1 Tutor, 5 Demos.	Carr, D. J., BSc PhD Manc., Hon. MSc Melf.	Prof.
Ancient History	Parker, R. E., BSc Wales	Lectr.
Atkinson, Mrs Kathleen M. T., MA Oxon., FSA	Smith, A. G., BSc Sheff., PhD Camb	Lectr.
Astin, A. E., MA Oxon.	Pate, J. S., MSc PhD	Lectr.
Archaeology	Lee, Mrs Helen M., MSc Melf.	Lectr.
Jope, E. M., MA BSc Oxon., FSA	Hart, M. G. R., BSc Nott., PhD Lond.	Lectr.
Wilson, B. C. S., MA Dub	Gunning, B. E. S., MSc PhD	Lectr.
	Kerthland, May F. H., MSc	
		†Curator of Herbarium
	2 Asst. Lectrs., 1 Res. Asst.	

\* Member of the Association of Universities of the British Commonwealth

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U.K.—NORTHERN IRELAND

**Celtic**

- Wagner, H. H., DPhil *Zür.* Prof.  
 Henry, P. L., BA MEdSc *NUI*,  
 PhD *Zür.* Lectr.  
 1 Asst. Lectr., 1 Res. Asst.

**Chemistry**

- Kemhall, C., MA ScD *Camb.*, FRIC  
 (Phys. & Inorg. C.) Prof.  
 Henbest, H. B., DIC, PhD DSc *Leid.*,  
 FRIC (Org. C.) Prof.  
 Wilson, C. L., PhD *Glas.*, DSc, FRIC  
 (Analyt. C.) Prof.  
 Pink, R. C., DSc (Phys. C.) Reader  
 Bacon, R. G. R., DIC, BSc PhD *Leid.*  
 (Org. C.) Reader  
 Magee, R. J., PhD *Edin.*, MSc, FRIC  
 (Inorg. C.) Sr. Lectr.  
 Mackie, H., DPhil *Oxon.*, MSc PhD,  
 FRIC (Phys. C.) Sr. Lectr.  
 Pullin, A. D. E., BSc PhD *Leid.*  
 (Phys. C.) Lectr.  
 Grundon, M. F., MA DPhil *Oxon.*  
 (Org. C.) Lectr.  
 Lewis, F. A., BSc PhD (Inorg. C.) Lectr.  
 Heal, H. G., BSc PhD *Leid.* (Inorg. C.) Lectr.  
 Roberts, M. W., BSc PhD *Wales*  
 (Phys. C.) Lectr.  
 Stirling, C. J. M., BSc *St. And.*, PhD *Leid.*  
 (Org. C.) Lectr.  
 Nelson, S. M., DPhil *Oxon.*, MSc PhD  
 (Inorg. C.) Lectr.  
 Galwey, A. K., BSc PhD *Leid.* (Phys. C.) Lectr.  
 Flockhart, B. D., MSc PhD (Phys. C.) Lectr.  
 Aures, Mrs. Barbara J., PhD *Edin.*, BSc  
 Supt. of Labs.  
 McGrath, W. D., PhD *Camb.* & *Self.*,  
 BSc (Phys. C.) Lectr.  
 Grunshaw, J., BSc PhD *Sheff.* Lectr.  
 Jackson, W. R., BSc *Man.*, PhD *Leid.* Lectr.  
 Woodward, Ida, MA *Camb.* Temp. Res. Lectr.  
 10 Demas.

**Classics: Greek**

- Huxley, G. L., MA *Oxon.* Prof.  
 Phillips, E. D., MA *Oxon.* Reader  
 Gooding, D. W., MA PhD *Camb.* Lectr.

**Classics: Latin**

- Boyd, M. J., MA *Oxon.*, BA Prof.  
 Bower, E. W., MA *Oxon.* Lectr.  
 Smallwood, Edith M., MA PhD *Camb.* Lectr.  
 McGarr, M. J., BLitt *Oxon.*, MA Lectr.

**Dentistry, see Medicine****Economic and Social History**

- Connell, K. H., BSc(Econ) PhD *Leid.*,  
 MA *Oxon.* Sr. Lectr.  
 Hammettsley, G. F., BA *Leid.* Lectr.  
 Ehrlich, C., BSc(Econ) PhD *Leid.* Lectr.

**Economics**

- Black, R. D. C., BComm MA PhD *Dub.* Prof.  
 Parkinson, J. R., BComm *Leeds* (Appl. E.) Prof.  
 Cuthbert, N., BComm MA (Stats) Sr. Lectr.  
 Black, W., BCommSc PhD Lectr.  
 Wright, A. L., BComm MA *Dub.* Lectr.  
 Swann, D., BA PhD *Leeds* Lectr.  
 Montgomery, J. K., BCommSc, FCA  
 (Accounting) } Lectr.  
 4 Asst. Lectrs., 1 Asst. Lectr., 2 Res. Assts.

**Education**

- Knob, H. M., MA BED PhD *Edin.* Prof.  
 Sutherland, Margaret B., MA EdB *Glas.*,  
 PhD Sr. Lectr.  
 Lewis, D. G., MSc *Wales*, BED *Edin.* Lectr.  
 Price, A. F., MA DipEd *Lev.*, PhD Lectr.  
 Dalton, K. G., MA DipEd *Leeds* Lectr.

**Engineering, see Applied Science and Technology, below****English Language and Literature**

- Butter, P. H., MA *Oxon.* Prof.  
 McDermid, M. P., MA *Glas.*,  
 BLitt *Oxon.* Sr. Lectr.  
 Braithwaite, J., MA *Glas.* Sr. Lectr.  
 Hill, Betty, MA *Bur.*, DPhil *Oxon.* Lectr.  
 Salgado, R. G. N., BA PhD *Nott.* Lectr.  
 Dixon, P., BA *Oxon.*, MA *Leid.* Lectr.  
 Croom, J. L., BA *Leid.*, MA *NUI* Lectr.  
 Todd, D. K. C., BA *Leid.* Lectr.  
 2 Asst. Lectrs.

**French and Romance Philology**

- Gibson, R. D. D., BA *Leid.*, PhD *Camb.* Prof.  
 Godin, H. J. G., MA *Leid.*, PhD Sr. Lectr.  
 Japolsky, L., MA BLitt *Oxon.* Lectr.  
 Nusse, F. H., MA *Oxon.* Lectr.  
 Thody, P. M. W., MA *Leid.* Lectr.  
 Pugh, A. R., MA PhD *Camb.* Lectr.  
 1 Asst. Lectr., 2 Lectors

**French, Medieval**

- Pelan, Margaret McL., DU *Stras.*,  
 MA PhD Reader  
 Spence, N. C. W., BA *Leid.*, PhD *Leid.* Reader  
 1 Asst. Lectr.

**Geography**

- Evans, E. E., MA *Wales*, DSc Prof.  
 Stephens, N., BSc *Dur.*, MSc Lectr.  
 Ford, V. C. R., MA *Leid.* Lectr.  
 Symons, L. J., BSc(Econ) *Leid.*, PhD Lectr.  
 Buchanan, R. H., BA PhD Lectr.  
 Mitchell, N. C., MA Lectr.  
 Common, R., BSc *Dur.*, PhD *Edin.* Lectr.  
 Crutchfield, J. G., BSc *Aberd.* Lectr.  
 1 Asst. Lectr., 1 Res. Asst.

<b>Geology</b>		Stewart, A. L., PhD <i>Lond.</i> , BSc	Lectr.
Williams, A., BSc PhD <i>Wales</i> , FGS	Prof.	Cohen, M., BA DPhil <i>Oxon.</i>	Lectr.
Preston, J., BScTech BSc <i>Mane.</i> , PhD <i>Helv.</i>	Sr. Lectr.	Opik, U., BSc PhD	Lectr.
Schwabacher, W., DPhil <i>Univ. York</i>	Lectr.	Smith, F. J., MA C U A, BSc PhD	Lectr.
Reid, R. E. H., BSc <i>Lond.</i>	Lectr.	2 Asst. Lectrs.	
Tavenner-Smith, R., MSc <i>Wales</i> , FGS	Lectr.	<b>Mathematics, Pure</b>	
Jones, K. A., BSc PhD <i>Wales</i> , FGS	Lectr.	Verbitskiy, S., BA PhD <i>Cambr.</i>	Prof.
2 Asst. Lectrs., 1 Res. Asst.		Cooper, R., MA PhD <i>Cambr.</i>	Reader
<b>German</b>		Hemstock, R., MA <i>Cambr.</i> , PhD <i>Lond.</i>	Reader
Hindesley, H. E., MA <i>Hamburg</i> , DPhil <i>Berlin</i>	Prof.	Burgess, D. G. J., MA PhD <i>Cambr.</i> , BSc	Lectr.
Finch, R., MA <i>Wales</i>	Sr. Lectr.	McFadden, R., MA PhD	Lectr.
Casey, T. J., MA <i>Dub.</i> , DrPhil <i>Bonn</i>	Lectr.	Glass, K. W. H., BSc	Lectr.
Hesse, W. G., DrPhil <i>Bonn</i> , MA <i>Cape T.</i>	Lectr.	2 Asst. Lectrs.	
Forest, Lillian R., MA PhD <i>Cambr.</i>	Lectr.	<b>Medicine, see below</b>	
1 Lectr.		<b>Music</b>	
<b>Histology</b>		Cranmer, P., MA BMus <i>Oxon.</i> , FRCS	
Stangeways, Dorothy H., MA <i>Cambr.</i> , PhD <i>Lond.</i>	Sr. Lectr.	Hamilton Harty Prof.	
<b>History, see also Anc. Hist.</b>		John, E. B., BA MMus <i>Wales</i> , FRCS	Lectr.
Roberts, M., MA DPhil <i>Oxon.</i> , Hon. FIDr <i>Stockholm</i> , FBA	Prof.	Warren, R. H. C., MA MusB <i>Cambr.</i>	Lectr.
Beckett, J. C., MA (Irish H.)	Prof.	<b>Philosophy</b>	
Gray, J. W., MA <i>Oxon.</i>	Reader	Gallie, W. B., MA BLitt <i>Oxon.</i>	Prof.
Graham, A. H., MA <i>Glas.</i>	Lectr.	Farr, J. A., MA BLitt <i>Oxon.</i>	Reader
Crowder, C. M. D., MA DPhil <i>Oxon.</i>	Lectr.	Milne, A. J. M., BSc(Econ) PhD <i>Lond.</i>	
(Philos. & Diplomatic)	Lectr.	(on leave) (Soc. P.)	Lectr.
Clarke, Dorothy P., PhD <i>Lond.</i> , BA	Lectr.	Hettrich, J. W. J., MA <i>Cambr.</i>	
Warren, W. L., MA DPhil <i>Oxon.</i>	Lectr.	(Hist. & P. of Sci.)	Lectr.
1 Asst. Lectr., 1 Res. Asst.		Grane, Mrs. Marjorie G., MA PhD <i>Hav.</i>	Lectr.
<b>History, Economic, see Econ. and Soc. Hist.</b>		Roches Cox, J. W., BA BPhil <i>Oxon.</i>	Lectr.
<b>Law</b>		<b>Philosophy, Scholastic</b>	
Montgomerie, J. L., LL.B. <i>Lond.</i> , Hon. LL.D. <i>Dub.</i>	Prof.	Crowley, Rev. T., DPhil <i>Law</i> , SocHist <i>Maitre</i>	
Newark, F. H., CBE, BCL MA <i>Oxon.</i>	Prof.	Agrégé en Philos <i>Louvain</i>	Reader
(Unimp.)	Prof.	Daly, Very Rev. C. R., LPh DD <i>Maynooth</i> , MA	Reader
Sheehy, L. A., LL.B. <i>Lond.</i> , PhD		1 Asst. Lectr.	
(Compar. L.)	Prof.	<b>Physics</b>	
Summons, K. R., MA DPhil <i>Oxon.</i>	Sr. Lectr.	Emeaus, K. G., MA PhD <i>Cambr.</i> , Hon. ScD <i>Dub.</i> , Hon. DSc <i>N. U. I.</i>	Prof.
Milner, A., LL.B. PhD <i>Lond.</i> , LL.M. <i>Yale</i>	Lectr.	Stones, R. H., DSc, FIP	Reader
Ryan, J. L., BA St Thomas, BCL <i>New Br.</i>	Lectr.	Watt, C. S., MSc PhD	Lectr.
Parmenton, M. P., BCL MA <i>Oxon.</i>	Lectr.	Kerr, L. W., BSc PhD	Lectr.
McCormack, J. B., LL.B.	Lectr.	Higginson, G. S., BA <i>N. Staffs.</i> , PhD <i>Birm.</i>	Lectr.
Conaghan, R. H., QC, BA	† Lectr.	Johnston, A. R., BSc PhD	Lectr.
Hutton, J. B. E., BA <i>Oxon.</i>	† Lectr.	3 Asst. Lectrs., 1 Temp. Asst. Lectr., 6 Demos.	
1 Asst. Lectr., 1 Tutor, 2 Res. Assts.		<b>Physiology</b>	
<b>Mathematics, Applied</b>		Greenfield, A. D. M., MB BS DSc <i>Lond.</i>	Dunville Prof.
Bates, D. R., DSc <i>Lond.</i> , MSc, FRS	Prof.	Roddie, I. C., MD DSc, MRCP	Reader
Dalgarno, A., BSc PhD <i>Lond.</i>		Clarke, E. W., BSc MB ChB <i>Birm.</i> , MA <i>Cambr.</i>	Lectr.
(Quantum Mech.) Prof.; Dir., Com- puting Lab.		Low, A. H. G., BSc MB, MRCP	Lectr.
Moisewitsch, B. L., BSc PhD	Reader	Glover, W. E., MD	Lectr.
Jarrett, A. H., BSc <i>Lond.</i> , MSc <i>Mane.</i> , PhD <i>St. And.</i>	Lectr.		
McCarroll, R. W., BSc PhD	Lectr.		

Loughridge, J. S., MD, FRCS  
: Tutor, : Democ., : Res. Asst.

### Political Science

Warrand, J. H., MA Oxon  
O'Leary, C., MA N.U.I., DPhil Oxon.  
: Asst. Lectr., : Temp. Asst. Lectr.

### Psychology

Seth, G., MA BEd PhD Edu., FBP&S  
McEwen, P., BSc Edu., PhD  
McHugh, M. F., BA  
Stretch, R. G. A., BA Natl., PhD Sheff.  
Moore, M. F., MA HDipEd Dub.,  
BEd Edu.  
: Asst. Lectr., : Res. Asst.

### Social Anthropology

Harris, Rosemary L., MA PhD Lond., BA Lectr.

### Social Studies

Neill, D. G., MA Dub.  
Harrison, Ead M., MA BLitt  
DPSA Oxon  
White, J. R., BA DipSocSt  
(Practical Work) Tutor  
Duffin, Rosam M., BA DipSocSt Asst. Tutor  
McIlravy, F., JP, BComSc  
MacMillan, Marion P., MBE  
Stanes, Doris, MSc(Econ) Lond.  
: Asst. Lectr., : Temp. Asst. Lectr.

### Spanish

Terry, A. H., MA Camb.  
Round, N. G., BA Oxon  
: Asst. Lectr., : Lectr.

Technology, see Applied Science and  
Technology, below

Theology, see below

### Zoology

Gresson, R. A. R., DSc Edin., PhD St. And.  
Williams, G., MSc Liv.  
Gotts, R. V., MSc  
Pantelousis, E. M., BSc Lond. & Athens,  
PhD Edin.  
Threadgold, L. T., BA PhD Dub.  
Scott, A., BSc PhD Aberd.  
Henderson, A. E., BSc Edin., PhD Glas  
: Asst. Lectr., : Museum Asst.

## AGRICULTURE

### Agricultural Botany

Linchon, P. A., DSc N.U.I., MAg  
Lowe, J., MAg PhD  
Stewart, R. H., BAg  
: Asst. Lectr.

### Agricultural Chemistry

Houston, J., DSc, FRIC  
Robinson, K. L., BSc BAg  
Brown, W. O., BSc MAg PhD, FRIC  
McConaghy, S., BSc MAg, FRIC  
McAlister, J. S. V., DFC, DFM, BAg  
Rayon, A. M., BSc PhD Dub.  
: Asst. Lectr.

### Agricultural Economics

Shemilt, H. J., BSc(Agri) Lond.  
: Asst. Lectr.

### Agricultural Zoology

Chamberlain, R., MA DipAgri Camb.  
Willis, R. J., BSc Wales  
: Asst. Lectr.

### Agriculture, Bacteriology of

Clemin, P., BSc BAgSci N.U.I.  
Murray, J. G., MAg PhD  
: Asst. Lectr.

### Comparative Pathology

Lamont, H. G., OBE, DSc

### Crop and Animal Husbandry

Morrison, J., OBE, BSc Aberd.  
Hale, R. W., BSc(Agri) Lond.  
Forbes, T. J., PhD Liv., DipAgri Camb.,  
BAgr  
: Asst. Lectr.

### Mycology and Plant Pathology

Muskett, A. E., OBE, DSc Lond.  
Taylor, J. C., BSc BAg  
Calvert, E. L., MAg  
: Asst. Lectr.

### Plant Genetics and Plant Breeding

Wilson, E. V. B., BSc  
Wright, C. E., BSc BAg PhD  
: Asst. Lectr.

### Veterinary Science

Kerr, W. R., ISO, BSc PhD  
Pearson, J. K. L., BSc PhD  
Gordon, W. A. M., BAg PhD  
: Asst. Lectr.

## APPLIED SCIENCE AND TECHNOLOGY

### Engineering, Aeronautical

Stephens, A. V., MA Camb., FRAeS  
Squire, L. C., BSc PhD Brit.  
Horne, J. L., MSc Brit.  
Watson, R., BSc(Eng) Lond.  
: Asst. Lectr., : Res. Asst.

### Engineering, Civil

Naylor, A. H., BSc(Eng) Lond., MSc Brim,  
MICE

Godden, W. G., MSc PhD  
 Bond, D., BSc PhD *Land.*  
 McVilly, R. B. (Surveying) Sr. Lectr.  
 Sidwell, E. H., MSc. Sr. Lectr.  
 Stuart, J. G., BSc *Wales* (Soil Mechanics) Lectr.  
 Selim, R. H. J., BSc PhD *Brist* Lectr.

6 Asst. Lectrs.

#### Engineering, Electrical

West, J. C., PhD DSc *Manc.*, MIEE Prof.  
 McHugh, D. S., MSc PhD, MIEE Sr. Lectr.  
 Douce, J. L., MSc PhD *Manc.* Sr. Lectr.  
 Gillies, J. F., CBE, BSc *N.I.J.*,  
 BSc(Eng) *Land.*, PhD, MIEE, FIP †Lectr.  
 Jaymeant, A. V., BEng *Banc.*, PhD *Brist* Lectr.  
 King, R. E., MSc *Manc.*, PhD Lectr.  
 Bond, A. D., BSc PhD Lectr.  
 2 Asst. Lectrs., 1 Res. Asst.

#### Engineering, Light Electrical

Allen, T. P., MSc, MIEE Prof.  
 McBride, J. M. W., BSc Lectr.  
 Ryan, W. D., PhD *Qu.*, MSc Lectr.  
 Rosie, A. M., BSc *Glas.*, MSc PhD *Birm.* Lectr.  
 Temp. Lectr.  
 Lectr.

#### Engineering Mathematics

Roberts, A. P., BSc *Manc.*, DIC, PhD *Land.* Sr. Lectr.  
 Mercer, A. M., BSc PhD (on leave) Lectr.  
 Dunwoody, N. T., BA PhD Lectr.  
 Newmann, M. M., BSc PhD *Nott* Lectr.  
 Gallagher, A. P., MSc Lectr.  
 2 Asst. Lectrs., 1 Temp. Asst. Lectr.

#### Engineering, Mechanical

Crossland, B., MSc *Land.*, PhD *Brist.*,  
 DSc *Nott.*, MIMechE Prof.  
 Wallace, P. J., MSc PhD *Birm.* Reader  
 Galchurst, J. M., MSc Sr. Lectr.  
 Black, T. J., PhD *Cambs.*, BSc Lectr.  
 McCloy, D., DIC, MSc Lectr.  
 3 Asst. Lectrs., 1 Res. Asst.

Extra-Mural staff (hon.), being Profs., Lectrs and  
 Recognised Teachers (Recog. T.) at Municipal  
 Coll. of Technol.

#### Aeronautical Engineering

Frost, R. J., BSc(Eng) *Land.* Recog. T.

#### Botany

McCourt, G. H., MSc Recog. T.

#### Chemical Technology

Hamer, D., BSc PhD *Land.*, FRIC Lectr.

#### Chemistry

Barry, Ruth J. W., MSc Recog. T.  
 Tyrrell, E., MSc *Manc.* Recog. T.  
 Hunt, H. S., MSc Recog. T.  
 Wilson, C., BSc DipEd Recog. T.

#### Engineering Drawing

McBainey, G. Temp. Recog. T.

#### Electrical Engineering

Fitton, J., DSc *Manc.*, MSc Recog. T.  
 Bromley, A. A., MSc Recog. T.  
 MacNeill, N. J., MSc Recog. T.  
 Gurvan, S. B., MSc Recog. T.  
 Neblett, D. H., BSc Recog. T.  
 Munro, S. L., BSc Recog. T.

#### Engines, Heat, and Practice of Machine Design and Construction

Craig, F. V. Recog. T.  
 Newell, D. G., BSc Recog. T.  
 Harvey, G. R. Recog. T.  
 Jennings, R. Recog. T.  
 Hoeford, D. F., BSc Recog. T.

#### Mathematics, Applied

O'Neill, P. R., BA Recog. T.  
 Robinson, G. E., BA *Land.* Recog. T.

#### Mathematics, Pure

Griffith, L., BSc *Land.*, MA Lectr.  
 Davies, A. L., MA *Sheff.* Lectr.  
 O'Neill, F. R., BA Recog. T.  
 Scott, S. A., MA Recog. T.  
 Robinson, G. E., BA *Land.* Recog. T.

#### Mechanical Engineering

Gallagher, T. E., DIC, BSc Lectr.  
 Hewitt, W. P., BSc Recog. T.  
 Sloan, J., MSc Recog. T.  
 Beck, A., BSc Recog. T.

#### Microbiology

Graham, Mrs. Patricia A., BSc *Nott.*,  
 MSc *Rdg.* Recog. T.

#### Pharmacy, Pharmaceutics and Pharmacognosy

Henbest, Mrs. Rosalind E. S., Recog. T.  
 MB *BS Land.* Temp. Recog. T.  
 Woodside, W., BSc Temp. Recog. T.  
 Davidson, R. J., BSc

#### Physics

White, O. M., BSc PhD Lectr.  
 Crowley, T. A., BSc *Land.*, PhD Lectr.  
 Fleck, W., BSc Recog. T.  
 McFarlane, W. A., BSc Recog. T.  
 Dobbin, F. J. H., MA *Cambs.* Temp. Recog. T.

**Physiology**

Bull, Mrs. Megan P, MB ChB Cape T, MSc Recog T

**Textile Chemistry**

Rosdun, J. L., BSc Recog T.

**Textiles**

White, O M, BSc PhD (Textile Testing) Lectr.  
McCartney, E., MSc Lectr.  
Pringle, A V. Recog T.

**Workshop Technology**

Bell, W. H. Recog. T.

**Zoology**

Rosborough, T. U., BSc Recog T.  
Mawell, T. H., BSc Recog T

**ARTS**

Extra-Mural staff (Recognized Teachers) at Magee University College, Londonderry—

**Economic Geography**

... Recog. T.

**Economic History**

Clarke, A., MA PhD Dub. Recog. T.

**Economics**

Gannay, J. W., MA BLitt Oxon. Recog. T.

**English**

Warner, A. J., MA Camb., PhD Read Recog T.  
Rhodes, E., MA Lond Recog. T.

**French**

Healey, F G, MA PhD Bern Recog. T.  
Jones, T O., BA Bern. Recog T

**Geography**

McCourt, D., MA PhD Recog. T.

**German**

Edwards, O H., DPhil Bonn, MA Woodland, T. W., BA Recog. T.  
Recog. T.

**Greek and Latin**

Lehèvre, F. J., MA Camb. Recog. T.  
Ussher, R. G., MA Dub. Recog. T.  
Prouse, Angela M., BA Lond. Recog. T.

**History**

McCracken, J. L., MA PhD Recog. T.  
Brown, J., MA Dub Recog. T.  
Clarke, A., MA PhD Dub. Recog. T.

**Mathematics, Pure and Applied**

Guthrie, W. G., MA Edu., PhD St And. Recog T

**Philosophy**

Nicholl, H F, MA MLitt Dub Recog. T.  
Dillon, Elizabeth A., BA Dub. Recog T.

**ECONOMICS**

Extra-Mural staff at Municipal Coll. of Technol. —

**Mathematics, Pure**

Griffith, L., BSc Lond., MA Lects.  
Davies, A. L., MA Sheff. Lectr.  
O'Neill, F R., BA Recog. T.  
Scott, S A., MA Recog. T

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc., see above)

**Anæsthetics**

Dundee, J W., PhD Lon., MD, FFARCS Lectr & Tutors

**Bacteriology, see Microbiol.****Child Health**

Allen, F M. B., MD, FRCP Nuffield Prof  
Carré, I J., MA MD Lond., DCH Camb. & Lectr.  
Lond., MRCP  
1 Sr. Tutor, 6 Tutors

**Dentistry**

Stoy, P J., BDS Bern., FDSRCS Prof.  
Adams, C. P., MDS, FDSRCS (Orthodontics) Lectr.  
Smith, R. J., BDS LDS Bern. (Oper. D. Surg.) Lectr.  
Saunbury, P., MSc LDS Manc. (Prosth. & Mech.) Lectr.  
Brown, W. A. B., MS Jll. (Orthodontics) Lectr.  
Eccles, J. D., BDS LDS, FDSRCS (Oper. D. Surg.) Lectr.  
Stewart, D J., MDS, FDSRCS (Child & Prev. D.) Lectr.  
Findlay, I. A., LDS Edin., BDS, FDSRCS (D. Surg.) Lectr.  
Porter, D C., MD (D. Radiol.) Lectr.  
Brown, W. M., MD DPhil (Anæsth.) Lectr.  
Megaw, J. McL., MB, FRCSEd (Surg. for D. Students) Lectr.  
Strain, R. W. M., BSc MD PhD, FRCP1 (Med. for D. Students) Lectr.  
Cullen, P. M., LDS (D. Mat. Med.) Temp. Lectr.  
: Asst. Lectr., 9 Tutors

**Dermatology**

..... †Lectr.

<b>Geriatrics</b>		<b>Ophthalmology</b>	
Adams, G. P., BSc MD, FRCP	† Lectr.	Wheeler, J. R., MB, FRCSed	† Lectr.
<b>Hæmatology</b>		4 Clin. Lectrs. †	
Nelson, M. G., MD	Lectr.	<b>Orthopaedic Surgery</b>	
<b>Infectious Diseases</b>		Withers, R. J. W., MD MCh, FRCSed	† Lectr.
Kane, F. F., MD DPH, FRCP	† Lectr.	<b>Otorhinolaryngology</b>	
<b>Materia Medica and Therapeutics</b>		MacLaughlin, F. A., MB, FRCS	† Lectr.
Cronheim, H. J., MD, MRCP	Lectr.	<b>Pathology</b>	
<b>Medicine</b>		Biggart, J. H., CBE, DSc MD, FRCP	
Bull, G. M., MD ChB Camb. T., FRCP	Prof.	Musgrave Prof.; Dir., Inst. of Pathol	
Wemmsley, R. A., MA MD BChir Camb., MRCP	Sr. Lectr.	McKeown, Elizabeth F., MD	
4 Clin. Lectrs., 7 Tutors		Gibson, J. B., MD Edin., MRCPed	Lectr.
<b>Medicine, Forensic</b>		McCaughy, W. T. E., MD (Appl. P.)	Lectr.
Marshall, T. K., MD ChB Lond.	Lectr.	4 Tutors	
<b>Medicine, Social and Preventive</b>		<b>Pharmacology, etc Therapeutics</b>	
Pemberton, J., MD Lond., DPH Lond., MRCP	Prof.	<b>Public Health (Administration)</b>	
Cheseman, E. A., BSc(Econ) PhD Lond., (Med. Stat.) Prof.		Swann, W. G., BSc Lond., MD DPH	† Lectr.
Carty, G. C. R., DPH Lond., BSc MD (Prev. Med.)	Lectr.	<b>Radiology</b>	
Friggatt, P., MA MD Dab., DPH	Lectr.	Shepherd, W. H. T., MD	Lectr.
Sanley, J., OBE, MD (Indust. Med.)	† Lectr.	<b>Surgery</b>	
7 Asst. Lectrs., 1 Tutor, 1 Temp. Asst. Lectr., 2 Soc. Workers		Rodgers, H. W., OBE, MB Lond., FRCS	Prof.
<b>Mental Health</b>		Welbourn, R. B., MA MD BChir Camb., FRCS	(Surg. Sci.) Prof.
Gibson, J. G., DPM Lond., MD, MRCP	Prof.	4 Clin. Lectrs., 6 Tutors	
Knox, S. J., MD	Lectr.	<b>Surgery, Operative, and Applied Anatomy</b>	
White, J. G., BA MBEd Harv., (Clin. Psychol.)	† Lectr.	..	
4 Tutors		† Lectr.	
<b>Microbiology</b>		<b>Therapeutics and Pharmacology</b>	
Dick, G. W. A., MD DSc Edin., MPH Johns H., FRCPed, MRCP	Prof.	Wade, O. L., MA MD Camb., MRCP	Prof.
Battley, Eileen O., MD DPH	Sr. Lectr.	Elmes, P. C., MA BSc BM BCh Oxon., MD Glasgand, MRCP	Lectr.
Dune, D. S., BA MB BChir Camb.	Lectr.	3 Tutors	
MacKenzie, D. W. R., BSc PhD Edin.	Lectr.	<b>Tuberculosis</b>	
Forsyth, J. R. L., MB ChB Camb. T.	Lectr.	.....	
1 Asst. Lectr., 3 Tutors		† Lectr.	
<b>Midwifery and Gynaecology</b>		<b>THEOLOGY</b>	
Macafee, C. H. G., CBE, Hon. DSc Lond., MB, FRCS, FRCSL, FRCOG	Prof.	(i) Extra-Mural staff (hon.), being Recognised Teachers of the Assembly's Coll. of the Presbyterian Coll. in Ireland —	
Boyd, G., MB Glas., FRCSed, FRCOG	† Lectr.	<b>Ecclesiastical History, Symbolics and History of Christian Doctrine</b>	
Harley, J. M. G., MD	Lectr.	Barkley, Rev. Prof. J. M., MA DD PhD Dab., MA	
4 Clin. Lectrs., 6 Tutors		Recog. T.	
<b>Neurology</b>		<b>Hebrew and Old Testament Theology</b>	
Allison, R. S., VRD, MD, FRCP	† Lectr.	Wilzen, Vesy Rev. R. J., BD Lond., MA	
		Recog. T.	



New Testament, Hellenistic and New Testament Greek and Biblical Theology  
Russell, E. A., BA BD MTh Lond. Recog. T.

Philosophy of Religion, History of Christian Doctrine, Christian Ethics, Symbolics  
Haure, Rev. J. L. M., MA Oxon., BD MTh Lond., DD Recog. T.

(h) Extra-Mural staff, being Recognized Teachers of Edgworth Theological Coll. —

Hebrew and Old Testament, Biblical Theology  
Greenwood, Rev. R., BA BD Dub. Recog. T.

New Testament, Hellenistic and New Testament Greek, Biblical Theology  
..... Recog. T.

Philosophy of Religion, Christian Ethics  
McQuade, Rev. J. S., LLB BA BD PhD Recog. T.

#### EXTRA-MURAL STUDIES AND ADULT EDUCATION

Sample, R. H., MA Camb.  
(on leave) Reader, Dir. of Extra-Mural Studies  
Arnold, D. M., BMus MA Sheff. (Music) Reader  
Whitford, F. J., BA Dub., (Hist.) Lectr.  
BSO(Econ) Lond. (Geog.) Lectr.  
Frey, J., BA (Pol. Sci.) Lectr.  
Lawrence, R. J., BSO(Econ) Lond. (Philos.) Lectr.  
Mahood, G. H., MA (Hist. of Art) Lectr.  
Ley, H., PhD Berle, BA Lond. (Engl.) Lectr.  
Devlin, D. D., MA Dub.

#### ADMINISTRATIVE AND OTHER STAFF

Pro-Vice-Chancellor: Prof. F. H. Newash, CBE, BCL MA Oxon. Vice-President: Prof. C. Kemball, MA ScD Camb., FRIC. Academic Council: Sec., Prof. F. H. Newash, CBE, BCL MA Oxon., Asst. Sec., R. Cooper, MA PhD Camb. Sec. of Matric Cttee.: Sr. Asst. Sec., Clerk of Admissions, Clerk of Convocation: J. M. Freeland, BSc BComSc Asst. Secs.: A. M. M. Steven, MA LLB Abord., R. G. Topping, MA Dub. Asst. Sec. & Clerk of Exams.: D. G. Andrews, BSO(Econ) DPA. Asst. Sec. to Bldgs. Cttee.: B. E. Mayes, MA Bdu., BSc Lond. Admin. Asst.: F. Smyth, LLB. Admin. Asst. (Data Processing): R. W. Ewart, MSc. Appts. Officer: N. W. Butler, MA Camb. Asst. Bursar: R. J. Brown, LLB. Accountant: D. J. Murphy. Internal Auditor: R. J. Pounder,

MA Camb. Dep. Librarian: Alice K. Megaw, BA, FLA. Sub-Librarians: Jessie B. Webster, MA; Frieda Brown, BLS McG., BA; W. D. Lenton, BLS McG., BSc; W. G. Wheeler, MA Dub. Asst. Librarians: H. J. Heaney, BA; Mia Marion G. Kelly, BSO(Econ). Med. Officer in Charge of Students' Health: W. Johnston, MD. Asst. Med. Officer: D. S. McLean, MB. Welfare and Lodgings Officer: Mrs. Grace Magill Bldgs. Officer: A. Forrester. Dir. of Phys. Educn. Centre: A. McDonald, MA DPE. Catering Officer: D. A. Ball. Organist: Prof. P. Cranmer, MA BMus Oxon., FRCO. Warden of Queen's Elms Hall of Residence: H. Mackie, DPhil Oxon., MSc PhD, FRIC. Radiation Protection Officer: R. J. Magee, PhD Edw., MSc, FRIC.

#### RECOGNIZED COLLEGES AND TEACHERS

EDGWHORTH THEOLOGICAL COLLEGE, Lonsborough, Belfast, 9 (tel.: Belfast 667711). (Methodist). Principal—Rev. R. Greenwood, BA BD Dub. The coll. is recognized for courses leading to BD. See also above.

MAGHE UNIVERSITY COLLEGE, Londonderry (tel.: Londonderry 2145). President—W. G. Guthrie, MA Edw., PhD St. Andrews. The coll. is recognized for first courses, not exceeding 3, in certain subjects leading to BA. See also p. 1406.

MUNICIPAL COLLEGE OF TECHNOLOGY, College Sq., Belfast, 1 (telegraphic & cable address: Technical College, Belfast, tel.: Belfast 27244). Principal—D. H. Alexander, OBE, MSc Camb.

The complete course for the BSc in textile technol. (suspended temporarily), pharmaceuticals and chem. technol. may be taken at this coll. Denn, fac. of appl. sci. & technol.: Prof. A. V. Stephens. See also pp. 1405, 1406.

PRESBYTERIAN COLLEGE (ASSEMBLY'S COLLEGE), Botanic Ave., Belfast, 7 (telegraphic & cable address: Assembly's College, Belfast; tel.: Belfast 24761). (Presbyterian). Principal—Very Rev. Prof. R. J. Wilson, BD Lond., MA. The complete course for the BD may be taken at this coll. Denn, fac. of theol.: Prof. M. J. Boyd. See also pp. 1407-1408.

## GENERAL INFORMATION

Queen's College was established by royal charter in 1845, opened in 1849, and linked with rolls, at Cork and Galway was the Queen's Univ. in Ireland, in 1850. Originally there were three facs, arts (with sci and lit divisions), med and law. In 1879 Queen's Coll became a constituent coll of the Royal Univ. of Ireland. The governing body was the purely academic coll. council. At the turn of the century private benefactions led to increased bldgs. and additional staff. In 1908 the coll became the Queen's Univ. of Belfast, the Royal Univ. of Ireland being dissolved in the following yr. The senate became the governing body, consisting of 100s. of the public life of Ulster, of the profs. and of grads. The identification of the new univ. with the interests of Ulster became closer on the establishment in 1920 of the govt. of N. Ireland from which the univ.'s income is largely derived on the advice since 1945 of the Univ. Grants Comm. Since Queen's Coll. became a univ. the following facs. have been added to the original 3: in 1910 sci. and econ.; in 1921 appl. sci. & technol. with the co-operation of the Belfast Coll. of Technol.; in 1924 agric., whose work is co-ordinated with that of the Ministry of Agric. for N. Ireland; and in 1926 the fac. of theol., most of the teaching for which is given in the Presbyterian Coll., Belfast, and in Edgemoor Theol. Coll., Belfast.

Belfast (pop. 454,000) is a county borough and the capital city of N. Ireland.

**CONSTITUTION.** The authorities of the univ. are the chancellor, who is the titular chief officer; the pro-chancellors (of whom there may be 3); the pres. and vice-chancellor, who is the principal academic and admin. officer; the senate, which is the governing body; the academic council, which is the body of profs. and certain lectrs. responsible for internal academic affairs; the gen. bd. of studies, which considers courses of study and recognition of colls. and teachers; the facs.; and convocations, the statutory body of grads., which elects the chancellor and 8 members of senate and may consider any matter referred to it by senate.

**INCOME.** (1950-51) Total income, £1,205,572 (parliamentary grants, 76.9 per cent.; endowments, 1.6 per cent.; local authorities, 1.6 per cent.; fees, 14.2 per cent.; payments by govt. depts., 2.6 per cent.; other items, 3.1 per cent.).

**FACULTIES AND DEPTs.** Agric., Prof. J. McGee (crop & animal husbandry), appl. sci. & technol., Prof. A. V. Stephens (aeron. engin.); arts, Prof. G. Seth (psychol.); econ., Prof. J. H. Warrander (pol. sci.), law, Prof. J. L. Monaghan; med., Prof. J. H. Bigger (pathol.); sci., Prof. A. Williams (geol.); theol., Prof. M. J. Boyd (Latin).

**UNIVERSITY PARKING.** Most of the bldgs. erected from time to time during the past 110 yrs. are situated about one mile from the centre of the city. A number of new bldgs. are being planned or are in course of construction. The inst.

of clin. sci. and inst. of pathol. are 1 mile distant adjoining principal hospes. Main athletic grounds are at Cherryvale (25 acres), about 2 miles from the univ. The phys. educn. centre is  $\frac{1}{2}$  mile from the main bldgs.

**GEOGRAPHICAL LOCATION.** Inst. of Pathol., Grosvenor Rd., Belfast, 12; pathol. and microbiol., Inst. of Clin. Sci. (med., surg., radiotherapy, therap., soc. med., child health), Grosvenor Rd., Belfast, 12; geol. bldg., Elmwood Ave., Belfast, 9; agric. bldg., Elmwood Ave., David Keir bldg., Stramillia Rd., Belfast, 9 (aeron. & civil engin.; org. phys. & inorg. chem., bot. & zool.).

**LIBRARY.** 360,000 vols. Library consists of main univ. libr., David Keir sci. lib., and the med. lib. There are also class libraries in various facs., containing 40,000 vols. Important collections incl. (a) McDouall Sanskrit collection, (b) John Ross (Rosenzweig) collection, (c) Hibernica collection incl. Henry collection, O'Rahilly collection and the Simms collection, (d) Gibson-Masson collection of Scottish & Irish lit., (e) Hamilton-Hasty music collection, (f) Wright collection of Chinese hist., (g) Antrim presbytery collection.

**MUSEUMS.** Classical archaeol., nat. hist., med., inst. med.

**LABORATORIES.** Physiol., biochem., phys., anat., bot., geol., pharm., zool., agric., marine biol. station, Portlerry.

**HOSPITALS AVAILABLE FOR CLIN. TEACHING.** General—Royal Victoria H., Mater Infirmary, Belfast City H.; maternity—Belfast City (Jubilee); gynaeol.—Royal Victoria, Samaritan, Belfast City, Mater Infirmary; child health & paediatrics—Royal Belfast H. for Sick Children, Ulster H. for Children & Women; ophthalmol. & otolaryngol.—Royal Victoria, Mater Infirmary, Belfast Ophthalmic, Bann H.; infectious diseases—N. I. Fever H.; mental diseases—Purdyburn H.; anaesthetics—Royal Victoria, Mater Infirmary, Belfast City H.

**ADMISSIONS.** See Appendix III.

Under certain conditions non-members of the univ. may be admitted to classes as occasional students.

**ENTRY REQUIREMENTS.** 3 yrs. pass or general and usually 4 yrs. hon.—BA, BSc, BSc in pharmacology or textile technol., LL.B., BSc(Econ.), BMus; 4 yrs. pass or hon.—BAgr, BSc in aeron., civil, mech. or electric engin.

In 1st yr. of BA general course 3 subjs. from list of 26 are studied and 1st exam. taken. Preparation for final exam. extends over 2 yrs. and comprises courses in 3 subjs. or in 2 subjs. and 1 pair of cognate subjs. Final exams. are classified in 2 types & candidates must sit at least 1 of each type. Subjs. of cognate pair must be studied for 1 yr. each in prescribed order. Pair will be examined in same term and single pass

list issued. All other subs. of final exam must be studied for 2 yrs. For each BA course with hon., certain subs. are prescribed for 1st exam in its. On completion of this exam, qualified candidates may be admitted to an hon. sch. for a further 3 yrs' study. In certain hon. schs it is necessary to attend lectures & pass an exam (subsid.) in a subj. other than subs. of hon. sch. For pass BSc in sci., 4 subs. from list of 11 are studied & an inter. exam. taken or exemption claimed in certain circumstances. This exam. is same for pass degree and for degree with hon. 3 subs. from list of 15 are studied for final exam. whether pass or hon. One at least must be main subj. & others may be main or subsid. Certain subs. may only be taken at subsid. level. Subsid. exam. is same for pass degree or for degree with hon. Final exam. in main subj. may be taken for pass degree or degree with hon. Different papers will be set for pass & hon. candidates.

BA with hon. may be taken in archaeol., Celtic lang., & lit., classics, econ. & soc. hist., Engl. lang. & lit., Engl. & philos., Engl. & French, French lang. & lit., French & philos., geog., German lang. & lit., German & philos., German & music, Latin, math., mediev. & mod. lang., mediev. studies, mod. hist., philos., philol. & psychol., pol. & mod. hist., pol. & philos., psychol., scholastic philos., Spanish lang. & lit. The BMus and BED (see below) are of hon. standard. BSc hon. in pure sci. may be taken in any subject of the fac.—maths., appl. maths., phys., chem., bot., zool., geog., geol., physical, biochem., anat., pathol., archaeol., psychol., microbiol. 6 yrs. (of which the first 2 may be in other approved univ. or med. schs.)—MB BCH BAO 5 yrs. (of which the first 2 may be in other approved univ. or dent. schs.)—BDS. First degrees for BSc(Econ) and BSc (non-engin. subjects) may be taken largely or solely on basis of evening attendance at the univ.

HONORS DEGREES. 2 yrs. for grads of this or other approved univ.—BD, BED (incl. 1 yr. dipl. course). The MA may be taken by a BA 1 yr. after graduation (exam. or thesis or indep. res.) or grads. of other univ. 2 yrs. after initial enrolment (res. and thesis). The (1) DLit, (2) LLD and (3) DMus are conferred on grads of this univ. distinguished in (1) letters, or lit., philos., or hist. res.; or (2) law, or legal or hist. res.; or (3) music. The (1) DLit and (2) LLD may also be obtained by thesis or publd. works; the (3) DMus by composition; not less than 6 yrs. (1) and 5 yrs. (2) and (3) after primary degree. The LLM is open to LLBs of this or other univ. not less than 1 yr. after graduation (res. with exam. and dissertation). The MSc is open to a BSc of the univ. and grads. of other univ. holding a degree of similar rank not less than 1 yr. after graduation (thesis or indep. res. or exam. in fac. of appl. sci. in light electr. engin.). The DSc is open to grads. of this univ. 3 yrs. after graduation in any fac. It is conferred for res. or scientific work in reln. to sci., pure or appl., or for distinction in agr., engin. or other practical appln. of sci. The MSc(Econ) is open to a BSc(Econ) of

the univ. and to grads. of other univ. holding a degree of similar rank not less than 1 yr. after graduation (thesis or indep. res.). The DSc(Econ) is open to grads. of the univ. 5 yrs. after graduation in any fac. The MD, MCh and MAO are open to grads. of the univ. in med. of 3 yrs. (if also grads. in arts or sci., 2 yrs.) standing by exam. or thesis. The MAg may be conferred on a BAg of the univ. or on grads. of other univ. who hold equivalent degrees after 2 yrs. (thesis or indep. res.). The DD is open to grads. in div. of the univ. of at least 6 yrs. standing. PhD not less than 2 yrs., open to grads. of this or other approved univ.

HONORARY DEGREES. Any doctor's or master's degree may be awarded as an honorary degree.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Educn. (for grads.), 1 yr. full-time or 3 yrs. pt.-time, pub. health (for grads. in med.), 1 yr., soc. studies, 2 yrs.; numerical maths. (for those holding pass degree in maths. or equivalent), 1 yr.

RESEARCH. Facilities for postgrad research available in most depts. of the univ. A list of publications by members of staff is to be found in the vice-chancellor's annual report. A report on recent research *The Pursuit of Knowledge* was published in 1959 by the printer to univ.

STUDY LEAVE. Each appln. for leave of absence is considered on its merits.

FEEs. *Inclusive composite annual fee* (covering tuition, exams (but not re-exams.), graduation, hire of microscopes and premium for personal accident insurance) Arts (BA, BMus, BED), £35 but £30 for 4th hon. yr.; LLB, £35 with £30 for 4th yr.; BSc (pure or appl. in engin.), £32 but £40 for 4th hon. yr. in pure sci., BSc(Econ), £35 with £30 for 4th hon. yr.; MB BCH BAO, £65 (incl. hosp. fees), BDS, £65 (incl. hosp. fees); BAg, £52 but £40 for 5th hon. yr.; dipl. in educn., dipl. in soc. studies, £35; res. students, £20. The above refer to full-time courses. Annual enrolment fee, £6:6s. (incl. membership of union), except for pt.-time students, students in the fac. of theol. and students not studying for a degree for whom the fee is £3. Re-exam. fee, £2 per subject. Convocation fee on graduation, £1:1s.

ACADEMIC YEAR. Oct. 1 to Sept. 30: 3 univ. terms of 13, 11 and 14 wks., 3 lecture terms of 10, 10 and 6 wks.

ADULT EDUCATION (see also 'Teaching Staff', above). The Jt. Ctee. for Adult Educn. formed in 1931 of reps. of univ., WEA (NI), Ministry of Educn. and local educn. authorities. Lectures, autumn and winter classes and residential courses provided through WEA. Financed by grants from univ., Ministry of Educn., local educn. authorities and other public bodies. Over 150 classes and courses provided annually.

UNIVERSITY EXTENSION lectures by members of

the univ. staff, and other lectrs. by invitation, are given in Belfast and other towns.

**ENTRANCE SCHOLARSHIPS.** About 28 tenable for 3 or 4 yrs., aggregate value £1100 p.a.; 8 tenable for 1 yr. only, aggregate value about £300 p.a.

**POSTGRADUATE AWARDS** open to grads. of other univs. . see p. 910

**APPOINTMENTS OFFICER** advises students as to preparation for entrance to various govt. services and other appts. All communications to the appointments officer (N. W. Butler, MA Camb.).

**ASSOCIATIONS.** Queen's Univ. Assocn. Secs J. F. Gillies, OBE, DE N.U.I., BSc Lond., PhD, Coll. of Technology, Belfast; W. Johnston, MD, 25 University Sq., Belfast.

There is also a Queen's Univ. club which meets in London. Sec. N. J. Harper, MSc PhD, 243 King's Rd., Harrow, Middlesex.

**STUDENT RESIDENCES.** Queen's Elms, University Rd., Belfast, 7 (tel.: 20400), for men students, accomm. 102, residence £40 per term (10 weeks) (warden: H. Mackie, DPhil Oxon, MSc PhD). Riddell Hall, Stranmillis Rd., Belfast, 9 (tel.: 66606a), for Protestant women students, accomm. 65, residence £120 p.a. (warden: May Dawson, BA). Aquinas Hall, 77 Malone Rd., Belfast, 9 (tel.: 665178), for Roman Catholic women students, accomm. 78, residence £40 per term (10 weeks) (further particulars from Mother Process). Riddell Hall and Aquinas Hall were endowed for residence by women students of univ. but are not administered by the univ. All students not living in halls or at home or with relations must live in registered lodgings. Bd and lodging obtainable in the city from about 55s. per wk. upwards. A list of accomm. is maintained by the lodging & welfare officer at 25 University Sq.

**STAFF CLUB.** There is a staff house at 10-11 University Sq. with limited residential club facilities.

**RECOGNITION OF OTHER UNIVS.** Students from other approved univs. may apply for exemption from a yr.'s attendance for a first degree, attendance and exam. in some of the subjects for first degrees in arts and sci., in consideration of equivalent courses and exams elsewhere.

**UNIVERSITY MILITARY FORMATIONS.** O.T.C. (T.A.). Founded 1908. O.C.: Lt.-Col. H. J. Johnston, OBE, TD, LLB, Royal Ulster Rifles. Provides trg. in infantry, signals, med. and R.E.M.E. sections at the drill hall. Q.U.B.U.A.S. formed 1941. O.C.: S/Ldr. L. L. Cunningham. Lecture rooms, 18 College Gdns., Belfast. Flying

instrn.—5 Chipmunk aircraft at Sydenham airfield. Members enlist as officer cadets in R.A.F.V.R. The 3-yr. course leads to civil private pilots' licence. W.R.A.C. (T.A.). founded 1930, centre—48 University Rd., Belfast; now under command O.T.C. (T.A.).

**STUDENT HEALTH SERVICE.** All students are bound by regn. to submit to med. exam. by the univ. med. officer in charge of student health, 25 University Sq., Belfast. All med. and dent students are required to be re-examined before commencing clin. studies. All students must undergo an annual chest X-ray. Mantoux-negatives are vaccinated with B.C.G. A nursing sister and nurse are available for routine treatment and dressings. The dir. of phys. educn. is a qualified physiotherapist and co-operates in remedial exercises.

**ATHLETIC FACILITIES.** 25 acres of playing-fields at Cherryvale, Belfast, provide pitches for rugby, soccer and Gaelic football, hurling, hockey and cricket, tennis courts and grass athletic track. The phys. educn. centre, Sans Souci Park, Malone Rd., Belfast, provides for squash, badminton, table-tennis, net-ball, boxing, fencing, gymnastics, etc. The boat house at Locknew Road provides facilities for puns, fours and eights. There is a dir. of phys. educn. and two assrs. to the dir.

**STUDENTS' REPRESENTATIVE COUNCIL.** Established to promote the general interests of students and represent them in all matters affecting their interests, to afford a recog. means of communication between students and authorities of the univ., to promote social intercourse among students and to bring them into closer releas. with students of other univs.

**STUDENTS' UNION SOCIETY.** Founded 1897. Contains reading, writing, library, clubs, and billiard rooms. Extended in 1933 by a larger dining-hall and kitchens as the result of a gift from the Pilgrim trust. The centre of undergrad. club and soc. activities.

**WOMEN STUDENTS' HALL.** Houses adjacent to the univ. at 20-21 University Sq. provide reading, study and refreshment facilities for women.

**PUBLICATIONS.** *Calendar* (Oct.), £1. Unofficial publns.: students' paper, *The Green* (fortnightly in term); *Students' Handbook* (Oct.), 1s. *Queen's Belfast 1845-1949. The History of a University*, T. W. Moody and J. C. Beckett. Faber, 1950, £3 s. 3d.

**PRINTER TO THE UNIVERSITY.** Marjory Boyd, MA, 2 Corporation St., Belfast, 1.

## THE YEAR 1961

**PRINCIPAL BENEFACCTIONS.** Natl. Fund for Polio. Res. £11,000 for res. into polio; Lady Dixon, £10,000 for med. res.; American Adv. Res. Proj. Agency netg. through U.S. Navy Europe. Res. Contracts Program, \$72,744 for res.

on atomic & molecular processes in dept. of appl. maths.

**NEW CHAIRS.** Personal chairs: med. stats (Dr. F. A. Chosseman), quantum mechanics (Dr. A. Dalgaard).

## U.K.—NORTHERN IRELAND

# RETIREMENTS Prof L. A. Baason (French).

**RESIGNATIONS.** W. A. S. Alldritt (dent. surg.), apptd. hd. of dept. of periodontol., Eastman Dent. Hosp., Lond.; W. E. Coey (crop & animal husbandry), J. T. Craig (law), apptd. sr. lectr. in law, Aberd.; Prof S. R. Dennison (econ.), apptd. to David Dale chair of econ., Dush; Dr. J. J. Gow (law), apptd. to chair of law, W. Ont.; Dr. S. J. Kilpatrick (med. stats.), apptd. lectr. in stats., Aberd.; Dr. B. G. Leary (electr. engin.), apptd. sr. lectr. in electr. engin., W. Aust.; Dr. D. M. McDowell (civil engin.), apptd. to post with U.N.O. in India, Dr. W. G. Miller (midwifery & gynaecol.), apptd. to post at Royal Infirmary, Perth, Scotland; Dr. T. R. F. Newsweller (aeron. engin.), apptd. to Meahan chair of aeron. & fluid mechanics, Glas.; Dr. R. C. Stephens (Engl.), D. C. Williams (law), apptd. assoc. prof. of law, Sask.

**DEATHS.** Catherine E. H. Bruce (catering officer); H. Elwood (former lectr. in dental mechanics); Rev. R. E. Ker (principal of Edgely Hill Theol. Coll. Belf., & recog. teacher); M. B. Lavery (lectr. in oper. surg. & appl. anat.); Dr. I. H. McCaw (lectr. in dermatol.); D. Luke (lectr. in vet. sci.); Prof. T. A. Sinclair (legist.); prof. of Greek; dean of fac. of theol.; Dr. H. H. Stewart (former clin. lectr. in med.).

**HONORARY DEGREES.** LL.D.—Sir David Campbell, chairman, Ulster Unionist Party in House of Commons; Judge B. J. Fox, former recorder of Belfast. D.Lit.—Sir Christopher Cox, educn. adviser to sec. of state for colonies, Sir Ronald Syme, Camden prof. of anc. hist., Oxford. D.Sc.—Prof. J. D. Boyd, prof. of anat., Camb.; Sir Eric Radcliff, distinguished accountant. MA—Mary A. McNeill, local historian. M.D.—J. A. Clishe, formerly member of staff of dent. school.

\* A student who graduates with a pass degree may subsequently read for hon., and if successful will obtain a cert. of hon.

## Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2753	417
Women	997	56
Total	3754	473

Distribution by Faculties Agric., 89; appl. sci. & technol., 712; arts (incl. educn.), 1323; econ., 406; law, 128; med. (incl. dent.), 643; sci., 88; theol., 42. Total: 4225

Included in the figures above are —

Postgraduate students, 303.

New admissions, 1243

Students from other countries, 301 (Countries from which largest numbers came: Republic of Ireland, 44; Fed. of Malaya, 43; Nigeria, 42; Ghana, 24; Kenya, 20)

DEGREES AWARDED (1960-61) Agric.: BAgr, 12; MAgr, 3. Appl. sci. & technol.: BSc, 101; MSc, 8. Artr.: BA gen. & pass, 101; BA hon., 91; MA, 9; BEd, 6. Econ.: BSc(Econ), 56; Law: LLB, 21. Med.: MB BCH BAO, 61; BDS, 18; MD, 13; MDS, 4. Sci.: BSc, 147; MSc, 8. Theol.: BD, 1. PhD (all facs.): 26 DSc (all facs.). 2. Total number of first degrees awarded, 608.

DIPLOMAS AWARDED (1960-61). DPH, 8; DipEd, 65; LDS, 1; DPA, 1; DipSocStudies, 15.

CERTIFICATES AWARDED (1960-61). Pure sci. hon., 26; appl. sci. hon., 3; econ. hon., 7; arts hon., 1\*

# WEST INDIES

University of the West Indies (p. 1414)

WEST INDIES

# UNIVERSITY OF THE WEST INDIES\*

Founded 1946; incorporated by Royal Charter 1962

Postal Address: Mona, Kingston 7, Jamaica, West Indies

Cable and Telegrams: University Jamaica

Telephone: P.B.X. 76661

VISITOR—H.M. THE QUEEN

CHANCELLOR—H R H. THE PRINCESS ALICE, COUNTESS OF ARILONE, GCVO, GBE, VA

VICE-CHANCELLOR—...

PRO-VICE-CHANCELLOR—P. M. SHUFLOCK, CBE, BA *Lond*, Hon. LL.D. *Lond*

REGISTRAR—H. W. SPENCER, CBE, MA *Oxon*, Hon. DSc Soc. *Lond*

LIBRARIAN—W. E. GOCHING, BA *Lond*, FLA

## TEACHING STAFF

[† = Part-Time]

### Anatomy, see Medicine

### Biochemistry, see Medicine

### Botany

Skelding, A. D., BSc <i>Lond</i> , DSc <i>Birm.</i>	Prof.
Adams, C. D., BSc PhD <i>Lond</i>	Sr. Lectr.
Sidrak, G. H., MSc <i>Calvo</i> , PhD <i>Birm.</i>	Sr. Lectr.
Robertson, Mrs. Edith T., BSc <i>Glas.</i> , FGS	Lectr.
Hunt, P., BSc PhD <i>Birm.</i>	Lectr.
Chapman, G. P., BSc PhD <i>Birm.</i>	Lectr.

### Chemistry

Haynes, L. J., PhD <i>Lond</i> & <i>Calvo</i> , DIC, FRIC	Prof.
Martin, S. L., DIC, MSc <i>Lond</i> , FRIC	Sr. Lectr.
Bartley, W. G., BSc PhD <i>Lond</i>	Lectr.
Sangster, A. W., BSc <i>Belf.</i> , PhD <i>Lond</i>	Lectr.
Chan, W. R., MSc PhD <i>Lond</i>	Lectr.
Lalor, G. C., MSc <i>Lond</i>	Lectr.
Magnus, K. K., MSc PhD <i>Lond</i>	Lectr.
Pilbrow, J. R., BA <i>Dub.</i> , PhD <i>Edin.</i>	Lectr.
Beilin, A. J., BSc C.C.N.Y.	Lectr.
Stuart, K. L., BSc <i>McG.</i>	Jr. Res. Fellow

### Classics

Carrington, A. G., MA <i>Lond</i>	Sr. Lectr.
Dietrich, B. C., BA PhD <i>Lond</i>	Sr. Lectr.
Paul, G. M., MA <i>Oxon</i>	Lectr.
Heller, H., BA <i>Lond</i>	Asst. Lectr.
Jackman, C. E., MA <i>Durh.</i> , DipEd <i>Oxon</i>	† Lectr.
Crick, J. A. W., BA <i>Durh.</i>	† Lectr.

### Economics

Kennedy, C. M., MA <i>Oxon</i>	Prof., Hd. of Dept.
Huggins, H. D., MS <i>Corn</i> , AM PhD <i>Harv.</i>	(Appl. Econ.) Prof.
Cumper, G. E., MA <i>Calvo</i> , PhD <i>Lond</i>	(Econ.) Sr. Lectr.
Davison, R. B., BSc (Econ) PhD <i>Lond</i>	(Econ.) Sr. Lectr.
Edwards, D. T., BSc <i>Wales</i> , MSc <i>Rdg.</i> , PhD <i>Lond</i>	(Econ.) Lectr.
McIntyre, M. A., BSc (Econ) <i>Lond</i>	(Econ.) Lectr.
Eston, G. E., BA PhD <i>McG.</i>	Lectr.
Fisher, M., BA <i>Oxon</i>	Lectr.
Beckford, G. L., BSc <i>McG.</i> , AM <i>Stat.</i>	Asst. Lectr.
Carberry, H. D., BA BCL <i>Oxon</i>	† Lectr.
Salmon, U. H., LLB <i>Lond</i>	† Lectr.
Preston, A. Z., JP, LLB <i>Lond</i>	† Lectr.
Hardy-Henry, H. J.	† Lectr.
Rattay, A. A., LLB <i>Lond</i>	† Lectr.
George, E. C., BA BCL <i>Oxon</i>	† Lectr.

### Education

Figueres, J. J. M., AB DLitt <i>Hum. Italy</i> , Crav. TD MA <i>Lond</i>	Prof.
Walters, Elsa H., BA PhD <i>Lond</i>	Sr. Lectr.
Gordon, Shulay C., MA <i>Lond</i> , TD	Sr. Lectr.
Phillips, A. S., MA PhD <i>Lond</i>	Sr. Lectr.
Gray, C. R., BSc (Econ) DipEd <i>Lond</i>	Lectr.
Bishop, G. D., BSc DipEd <i>Skeff.</i> , MA PhD <i>Lond</i>	Lectr.
Jones, J. A., BA DipEd <i>Wales</i>	Lectr.
Doyle, Phyllis, MA <i>Lond</i>	Sr. Res. Fellow

\* Member of the Association of Universities of the British Commonwealth

**English**

Owens, R. J., MA Camb., PhD Lnd  
 Kinghorn, A. M., MA PhD Aberd.  
 Ingledew, J. E., DipEd MA R'dg.  
 Carr, W. I., MA MLitt Camb.

Prof.  
 Lectr.  
 Lectr.  
 Lectr.

**Geology**

Burke, K. C., BSc PhD Lond.  
 Robinson, E., BSc Birm.

Sr. Lectr.  
 Lectr.

**Government**

de Jong, J. J., LLd Utrecht  
 Mills, G. E. M., BSc(Econ) Lond.,  
 MPA Harv. Assoc. Dir. Pub. Admin.  
 Manley, D. R., AB Col., MA Lond.,  
 PhD Lev. (Soc. Admin.) Sr. Lectr.  
 Buchan, O. M. C., MA Aberd., BA Oxon.  
 (Pol. Thought) Lectr.  
 Singham, A. W., BA Wesleyan, MA Mich.  
 (Pub. Admin.) Lectr.  
 Dolly-Blosson, June, BASoc Col.  
 (Soc. Work) Tutor  
 Brown, G. A., BSc(Econ) Lond.  
 Lectr.

Prof.

**History**

Rummer, W. G., MA Camb., AM Harv.  
 Goveas, Elsa V., BA PhD Lond.  
 (W. Indian Hist.) Prof.  
 Hall, D. G. H., BA Tor., MSc(Econ)  
 PhD Lond.  
 Auger, F. R., MA PhD St. And.  
 Farley, O. W., MA BLitt Oxon.  
 Laurence, K. O., MA PhD Camb.  
 Baker, E. C., MBE

Prof.  
 Lectr.  
 (W. Indian Hist.) Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Archivist

**Languages, Modern**

Whinnom, K., MA Oxon.  
 Coulthard, G. R., BA Oxon., PhD Lond.  
 Masler, W., MA Edin., LëtL Paris  
 Soosa, C. A., MA Striff.  
 Jackson, A. B., BA Striff., DU Paris  
 Alleyne, M. C., BA Lond., DU Strass.  
 Ching, K. M., BA Lond.  
 Buscher, M. G., MA Edin., DU Strass.  
 Hollingsworth, C., BA Lond.  
 Evans, Beverly, BA Camb.  
 2 Foreign Asses.

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

**Mathematics**

Robinson, L. R. B., MA Lond.  
 Road, R. C., MA Camb., PhD Lond.  
 Marshall, T. W., BA PhD Camb.  
 Hoymans, F., BA PhD Lond.  
 Knight, W. R., MA Birm., PhD Tor.  
 Mercer, A. McD., BSc PhD Belf.  
 Francis, O. J. C., BSc Lond., MSc Iowa  
 Moss-Solomon, H., BSc Lond.

Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

1 Dept. Asst.

**Medicine, see below****Microbiology, see Medicine, below****Pathology, see Medicine, below****Physics**

Wright, R. W. H., BSc PhD Lond.  
 Gosling, R. G., BSc PhD Lond., FIP  
 Paton, F., BSc St. And.  
 Jutsum, P. J., BSc R'dg.  
 Armstrong, R. J., BA MSc Dub.  
 McMorris, M. N., BSc Lond., BA  
 PhD Camb.

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.

**Physiology, see Medicine, below****Sociology**

Baithwaite, L. E. S., BA Lond.  
 Sc. Lectr., Actg. Hd. of Dept.  
 Roberts, G. W. P., BSc Lond.  
 Byrne, Joycelin, BSc(Econ) Lond.

Sr. Lectr.  
 Sr. Lectr.  
 Res. Asst.

**Surgery, see Medicine, below****Zoology**

Steven, D. M., MA DPhil Oxon.,  
 AM Harv.  
 Goodbody, I. M., BA Dub., PhD Aberd.  
 Page, W. A., BSc Lond.  
 Mettuck, D. F., BSc Wales, PhD Lond.  
 Heywood, J., BSc PhD R'dg.  
 Parnell, J. R., BSc PhD Lond.  
 1 Dept. Asst.

Prof.  
 Sr. Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

**MEDICINE****Anatomy**

Hoyte, D., MD ChB Manc.  
 Sr. Lectr., Actg. Hd. of Dept.  
 Levine, C., MD BCh Belf.  
 ....

Lectr.  
 Lectr.

**Biochemistry**

von Holt, C., MD Hamburg  
 Kean, E. A., BA Tor., MSc McG.,  
 PhD Lond.  
 Ellington, E. V., MA Oxon., PhD Lond.

Sr. Lectr.  
 Lectr.  
 Lectr.

**Medicine**

Cruckshank, E. K., OBE, MD ChB Aberd.,  
 FRCP  
 Back, E. H., MA MB BChir Camb.,  
 MRCP (Pediatrics) Sr. Lectr.  
 Gourlay, R. J., BSc Oxon., MD Glas.,  
 DPH Leeds (Prev. Med.) Sr. Lectr.  
 Stuart, K. L., MD BCh BAO Belf.,  
 DTM&H Lond., FRCPed, MRCP Sr. Lectr.  
 Irvine, R. A., MB ChL Leeds, MRCP  
 Angles, Joan, MB ChB Glas., MRCP  
 (Pediatrics) Lectr.

Prof.



Christian, D. E., MB BS *Leeds*, MRCP Lectr.  
 Richards, R., MB BS *Durk*, MRCP Lectr.  
 Standard, K. L., MD BS *Leeds*, MPH *Phil*  
 (Soc. & Prev. Med.) Lectr.  
 Wynter, Mrs. Leslie, MB ChB *Edin*,  
 MRCPed (Paediatrics) †Lectr.  
 Johnston, H., MB ChB *Edin*, MPH *Harv.*  
 (Prev. Med.) Hon. Lectr.  
 Rodgers, Pamela E., MB BS *Leeds*,  
 MRCPed Res. Asst.  
 1 Depl. Asst.

### Microbiology

Grant, L. S., MB ChB *Edin*, MPH *Mack*,  
 DipBact *Leeds*, Reader  
 Spence, Leslie, MB ChB *Brist.*,  
 DipBact *Leeds* Sr. Lectr.  
 Belle, E. A., BA *Lincoln*, MSc PhD *McG*  
 Lectr.  
 Been, T. E., MB BS *Leeds*, Lectr.  
 Bazgik, V. V., MD *Zagreb*, Lectr.  
 Tikhasingh, E. S., MA *Boston*, PhD *Oregon* Lectr.  
 3 Depl. Assts.

### Obstetrics and Gynaecology

Stewart, D. B., MBE, BSc MD *Manit.*,  
 FRCSCan, FRCOG Prof.  
 Douglas, C. F., BA *Cambr.*, MB ChB *Edin*,  
 Sr. Lectr.  
 Cummins, G. T. M., MB ChB *Aberd.* Lectr.  
 Gardner, J., MB ChB *Aberd.* Lectr.  
 Anderson, Mavis Lectr.

### Pathology

Bras, G., MD *Batavia* Prof.  
 Robertson, W. B., BSc MD ChB *St. And.*  
 (Morbid Anat.) Sr. Lectr.  
 Harland, W. A., MB BCh *BAO Belg.*,  
 FRCP Sr. Lectr.  
 Goldberg, I. J. L., MSc *Rhodes*, MA *Natal*,  
 PhD *S.A.*, MRCP  
 (Chem. Pathol.) St. Lectr.  
 McFaulstich, H., MSc *Manit.*, PhD *Edin*  
 (Chem. Pathol.) Lectr.  
 Hayes, J. A., MB ChB *Brist.*  
 (Morbid Anat.) Lectr.  
 Clark, P. A., MB BS *Leeds*, (Haematol.) Lectr.  
 Milner, P. F. A., MB ChB *BAO N.U.I.*,  
 DCP *Leeds*, (Haematol.) Lectr.  
 Murray, S. M., BSc MB BS *Durk*, Lectr.  
 Lém-Sao, Shirley, BA *MSc Marquette*  
 Res. Asst.  
 Lindo, V. E., MB BS *Leeds*, Res. Asst.

### Physiology

Mackay, I. F. S., MSc PhD *Manit.* Prof.  
 Feng, P. P., MD *Shanghai*, MSc *Tennessee*,  
 BS *Yenching* (Pharmacol.) Sr. Lectr.  
 Goreau, T., MSc PhD *Yale* Sr. Lectr.  
 Palmer, J. F., BSc PhD *Leeds* St. Lectr.  
 Walker, R. L., MB ChB *Manit.* Asst. Lectr.  
 Telford, J. M., PhD *Leeds* Asst. Lectr.  
 Ward, E. R., MB BS *Leeds* Asst. Lectr.

### Surgery

Annamanathodo, H., MB BS *Leeds*, FACS,  
 FRCS (Clim. S.) Prof.  
 Golding, J. S. R., OBE, MA MB BCh  
 Camb., FRCS (Orthop.) Reader  
 Mason, A. F., BSc MB BS *Leeds*,  
 FRCSed, FRCS Sr. Lectr.  
 Gore, D. O., BA MD *Col* Sr. Lectr.  
 Brooks, V. E. H., BSc MD CM *McG*,  
 FRCSCan Lectr.  
 Woo-Ming, M. O., MB BS *Leeds*, FRCS,  
 FRCSed Lectr.

### Associate Lecturers

R. O. Cooke, MD CM *Dal* (Mental Dis.);  
 D. W. Degazon, MB BS *Leeds*, FRCS  
 (Ophthalmol.), L. D. March, LDS *Leeds*  
 (Dental Surg.); J. A. B. Jones, MB BS  
 (Radiol.); R. J. Stout, MB BS *Leeds*,  
 FFARCS (Anaesth.); M. Segar, MD  
*Vicars*, FRCSed (E.N.T.), E. C. Sutherland  
 (Venereal Dis.), S. P. W. Street,  
 FRCSed (Surg.), E. J. Valentine, MB ChB  
*Edin*, DPH *Tor.* (Dis. of Chest).

### AGRICULTURE (in Trinidad)

#### Agriculture

Wilson, P. N., MSc(Agr) PhD *Leeds*,  
 DipAnimalGenetics *Edin*, Prof.  
 Campbell, L. G., DICTA, BSc *McG*, Lectr.  
 Osbourne, D. F., BSc *Rdg*, DipAgric *Camb*,  
 DTA *Trin* Lectr.  
 Chapman, T., BA *DipAgric Camb*,  
 DTA *Trin* Lectr.  
 Squire, H. A., MA *Oxon*, Lectr.  
 Henderson, T. H., DICTA, Lectr.  
 Haynes, P. H., DICTA, BSc *Belg*, Lectr.  
 Williams, H. E., PhD *Edin*, MSc *Wit*,  
 DVM *Tor*, Lectr.  
 Barnes, L. S. Farm Manager

#### Botany and Plant Pathology

Parsglove, J. W., BSc *Manit.*, AICTA,  
 FLS Prof.  
 Cope, F. W., MSc PhD *Leeds*, ARCS St. Lectr.  
 Richards, P. T., MA *Oxon*, Lectr.  
 Barnes, R. F., BSc *Leeds*, ARCS Lectr.

#### Chemistry and Soil Science

Rodrigues, G., FRIC Sr. Lectr.  
 Fewster, J. A., BSc PhD *St. And.*, St. Lectr.  
 Ahmad, N., MSc *Br. Col*, PhD *Nott*,  
 DICTA, AICTA, Lectr.

#### Rubber Research Unit

Ariett, C. F., BSc *Walest*, PhD *Birm.* Agronomist

#### Seismic Research Unit

Robson, G. R., BSc PhD *Durk*, FGS Seismologist  
 Barr, K. G., BSc *Leeds*, Seismologist

**Soil Research and Survey Section**

Coulter, J. K., BSc BAgr <i>Self.</i>	
DipAgrSc Camb., FRIC	Officer-in-Charge
Specter, J., BSc Lond	Spectrochemist
Smith, G. W. R., MSc Lond.	Soil Physicist
Mahipant, G. K., BSc PhD <i>Brit</i>	
Moss, P., MSc Wales	Sr Soil Chemist
Stark, J., BSc Glas.	Soil Chemist
Twyford, I. T., BSc Lond	Soil Surveyor
Walsley, D. M., MSc PhD Lond	Agromonomist
	Soil Chemist

**Zoology**

Underwood, G. L., DSc Lond	Prof.
Emsley, M. G., BSc Lond, ARCS	Lectr.

**Research Scientists**

Bartley, B. G. D., BSc(Agr) <i>Alid</i> , MSc	
PhD Iowa	Plant Breeder
Murray, D. B., MA Camb., AICTA	
Nichols, R., MSc Lond	Sr Plant Physiologist
Iron, E. F., BSc Lond, DipAgrSc Camb	Plant Physiologist
Quesnel, V. C. J., MA Tw., PhD Camb.	Plant Pathologist
	Biochemist
Breese, M. H., DIC, BSc Wales	
(Stored Products)	Entomologist
Gooding, H. J., BSc Manc., FLS	
(Food Crops)	Plant Breeder
Williams, D. B., DICTA	
(Food Crops)	Asst to Plant Breeder
Hosen, I., MSc Lond, BSc(Agr) McG.,	
DICTA	
(Citrus)	Plant Physiologist, Agronomist
Spence, J. A., PhD BSc <i>Brit.</i>	
DipAgrSc Camb., DTA Tw.	
(Citrus)	Plant Pathologist
Krasian, L., BSc <i>Brit.</i>	
Res. Agronomist, Herbicides	
Smith, L. H.	Asst. Agronomist, Banana Res.
White, V. E., DICTA	
Asst. Manager, River Estate	

**ENGINEERING (In Trinidad)****Chemical Engineering**

Norman, W. S., MSc Liv, DipChemEng	
PhD Lond.	Prof.
Konastewicz, Z. M., Dipping Warsaw	Lectr.
Konastewicz, Mrs. Ahren, PhD Lond.	Lectr.
Alt, Wahid, BSc Lond.	Res. Asst

**Civil Engineering**

Everard, K. A., DIC, BSc PhD Lond.	Sr. Lectr.
Phelps, H. O., BSc Wales	Lectr.
Denn, C. A. W., BSc Lond.,	
DipHydEng Delft	Lectr

**Electrical Engineering**

Carpenter, C. J., MSc(Eng) Lond.	Prof.
----------------------------------	-------

Wilson, J. D., BSc Edin.	
Jules, K. S., BSc Not	

Lectr.	
Lectr.	

**Mechanical Engineering**

Whiston, P. W., BSc(Eng) <i>S'w.</i> , DIC,	
PhD Lond	Prof
Robinson, R. O. A., BA PhD Camb.	
(Maths)	Sr. Lectr.
Thomasson, E. C., BSc Manc.	Sr. Lectr.
Charlton, W. W. S., BSc Leeds, MSE Prov.	Lectr.
Richardson, V. A., BSc(Eng) Lond.	Asst. Lectr.

**EXTRA-MURAL STUDIES**

Wynter, H. L., MA Oxon,	
Postgrad Cert Ed Lond	Dr.
Hamilton, Mrs. Gertrude, DipSocSc	
Dip Mental Health Lond.	Admn Asst.

**Resident Tutors**

Phillips, F. A., LLB Lond	[Barbados]
Collins, B. A. N., BA Lond, MA	
PhD Oregon	[British Guiana]
Lewis, V. H. B., BA Lond	[British Honduras]
Thompson, A. A., BA Lond,	
Cert Ed Camb	[Jamaica]
Sankalangan, Ruby, BA Maurit.	
DipSocSc Liv	[Trinidad]
Blundell, Margaret S., BA Camb	
(Grenada & St. Vincent)	
Brathwaite, L. E., BA DipEd Camb.	[St. Lucia]
Mulder, M. Elisabeth, DPhil Marburg	[Dutch Guiana]
Shorey, L. L., BA Lond., MFA Yale	
	[Leeward Islands]

**Staff Tutors**

Hill, E. G., DipDA Lond., MFA Yale	
	(Creative Arts)
Vaz, N. D.	(Creative Arts)
Nettleford, R. M., BA Lond., BPhil Oxon.	
	(Pol. Educn.)
	(Indust. Reins.)
Morrison, H. P., MA Cal.	(Radio Educn.)
Francis, Mrs. S. E., CertSocSci & Admin Lond	
	(Soc. Work)

**INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH**

Dir.—H. D. Huggins, MSc Camb., AM PhD	
Hav.	
Sr. Res. Fellows—Carleen O'Loughlin, MA MSc	
Camb., PhD A.N.U.; R. T. Smith, MA	
PhD Camb.	
Res. Fellows—A. Kandy, MA Camb., PhD Lond.,	
K. J. Cresswell, BA DPhil Oxon.; E. Aharon,	
BA MSc(Soc) Jerusalem	
Jr. Res. Fellows—G. C. Abbott, BA Lond., MA	
Yale, K. J. Woolmer, BA Leeds, C. Y.	
Thomas, BSc Lond. Res. Assts.—H. L.	
Gibson, BSc Fordham; H. W. O'Neale, BSc	
Lond	

## ADMINISTRATIVE AND OTHER STAFF

Dean of Students: F H Bowen, OBE, MA Col., DIC, PhD Lond. St. Asst Registrar C E. Jackson, MA Durh., DipEd Oxon. Asst Registrars: A E Burt, MA Howard, PhD Tor., H McE Gilson, BA Lond. Bursar: A. Z. Preston, JP, LLB Lond. Steward: Major K T Craig, MBE, Med Officer, Univ Health Service. H. Dyer, MB BS Lond. Dir. of Music: T. E. Murray, MBE, BMus Edu. Supervisor, Bldg Services: C. A. Brodusick. Public Reins. Officer: C. G. Lingo. Accountant: H. C. Holmes. Office Manager: Miss Sylvia I. Dunkley, MBE. Domestic Bursar: S. M. Bynum. Dep. Librarian: K. E. Ingram, BA Lond., FLA. St. Asst. Librarian: Mercedes D. Josephs, BA Lond. Asst. Librarians: Elise Wood-Ming, BA Tor., MS Col., Elaine Hemmings, BA BLS McG., Audrey K. Roberts, Mrs. Valerie C. Ruden, BS Col., Mrs. Mary C. Levy, AB St. Louis, Mrs. Catherine Roberts, BA Howard.

Wardens: Chancellor Hall, F H. Bowen, DIC, AM Col., PhD Lond.; Irvine Hall, F M. Worell, BA Manc., Mary Semcoe Hall, Mrs. Lucille M. Man, BA Lond.; Taylor Hall, S L. Martin, DIC, MSc Lond., FRIC. Lodgings Officer: Capt E. La Croix. Supt. Sanitation, Grounds & Gardens: L. A. Sullivan, MBE.

## Resident in Trinidad

Pro-Vice-Chancellor: P M. Sherlock, CBE, BA Lond., Hon. LL.D. Leeds. Secretary: V. A. A. Acheson, MSc McG., FCIC, FRIC. Asst. Registrar: Bussa. R. Adair, DPA Durh. Warden, Milnes Hall: J. A. Fewster, BSc PhD St. And. Accountant: C. M. Jolly. St. Asst. Librarian: Alma T. Warner, BA Lond., MS Col., Asst. Librarian: R. G. J. M. Cave, FLA. Clerk of Works: J. J. Cook. Actg. Health Officer: H. S. Littlepage.

## GENERAL INFORMATION

The univ. was incorporated by royal charter granted on April 2, 1962. It was empowered to take over the rights, property, etc., of the Univ. Coll. of the West Indies and to expend its work. Undergrads. were first admitted to that coll. in Oct. 1948. The govt. of Jamaica gave on lease for 999 yrs. a site of over 1 sq. ml. about 7 miles from Kingston. The facs. of agric. and of engin. were establd. in 1960 and 1961 respectively, and are situated at St. Augustine, some 8 miles E. of Port-of-Spain, Trinidad.

The Imperial Coll. of Trop. Agric. was founded in 1921 as the W. Indian Agric. Coll. to conduct res. and provide instructn. in trop. agric. In 1924 its name was changed to 'The Imperial Coll. of Trop. Agric.'. 2 years later the coll. was incorporated by royal charter. In March 1959 the governing bodies of U.C.W.I. and Imperial Coll. of Trop. Agric. agreed, with the approval of the fed. and unit govs., that from Aug. 1, 1960, the Imperial Coll. would be incorporated into the univ. coll. as the fac. of agric. The pro-vice-chancellor of the univ. is resident at St. Augustine.

**CONSTITUTION** The univ. is an autonomous instn. governed by a council consisting of reps. of the British Caribbean territories, the senate, and the guild of grads., as well as nominees of the chancellor. The senate consists of members of the teaching staff with the vice-chancellor as chairman.

**INCOME** Grants were made from Colonial Devel. & Welfare funds towards the capital costs, but recurrent expenditure is met from the revenues of the Caribbean territories. Income for 1960-61 (excl. fees in Trinidad): £1,134,163 (grant from fed. govt. & Caribbean territories, 86.2 per cent; fees, 3.3 per cent; interest from investments, 0.6 per cent; other sources, 9.9 per cent.). Income

for 1960-61 of fac. of agric. (Imperial Coll. of Trop. Agric.) derived from contributions by principal trop. territories in the British Commonwealth, H.M. Treasury, various assocns., companies and individuals, and tuition fees.

**FACULTIES AND DEANS** Agric., Prof. G. L. Underwood (zool.); arts, L. R. B. Robinson (maths.); engin., Dr. R. A. Everard (civil engin.); med., Prof. G. Bras (pathol.); nat. res., Prof. D. M. Steven (zool.); soc. scis., Prof. C. M. Kennedy (econ.).

**LIBRARY** Jamaica's main library at Mona, Jamaica, contains about 100,000 vols. on arts, scis. and med., as well as substantial holdings in microform, mostly of periodicals. There is a growing section of rare and current material on the W. Indies. Trinidad: about 40,000 vols. compensing for the most part the library of the former Imperial Coll. of Trop. Agric., to which is being added an engin. and gen. library.

**TEACHING HOSPITAL** Med. & surg., obstet. Total, 454 beds; 102 clin. students.

**INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH**, attached to fac. of soc. scis., is mainly concerned with appl. res. and social questions affecting the Caribbean area; members of its staff work in centres other than Jamaica.

**REGIONAL RESEARCH CENTRE (Trinidad)** associated with fac. of agric. Res. is undertaken mainly in these subjs.: cocoa, banana, soils, improved food crops, stats, serinol., and sugar res. on behalf of B.W.I.A.

**ADMISSION** Min. age for admission: 17 yrs. To be admitted direct to undergrad. degree courses candidates must have passed an exam. for a degree of any univ. recognised by senate or hold

certs. from instrs. so recognized, or hold approved General Certs. of Educn. or the equivalent with passes in 5 subjs. of which at least 2 must be at the advanced level or equivalent, or with passes in 4 subjs. of which at least 3 must be at the advanced level or equivalent. There are certain subjs. requirements for the various fecs which must be included amongst these passes. In addition, candidates may also be considered for admission to a pre-med course for the fac. of med and a prelin sci. course for the fac. of nat. scis., agric. and engin if they possess passes in 5 selected subjs. at the ordinary level of requirement.

**FIRST DEGREE.** 3 yrs.—BA (gen.) hons., BA (spec.) hons. (in classics, Engl., French, hist., Latin, maths., mod. langs., i.e. French with Spanish or Spanish with French), BSc (gen.) hons., BSc (spec.) hons. (in bot., chem., maths., phys., zool.); BSc(Econ.); BSc(Agr.) gen. hons.; BSc(Engin.) gen. hons. 6 yrs.—MB BS.

(Students in residence who have already matriculated for degrees of the Univ. of London (under the scheme of spec. relationship with the Univ. Coll. of the West Indies) will complete their courses for degrees of the Univ. of London.)

**HIGHER DEGREES.** MA, MSc, PhD.

**DIPLOMAS.** 1 yr.—educn., pub. admin., trop. agric.

**CERTIFICATES.** 1 yr.—educn., soc. work.

**FEES.** A charge of £178: 10s. covers residence, sports sub. and simple med. attention for 31 weeks' residence. Tuition fees: £66 in med.; £60 in agric., engin., dip. & cert. courses; £39 in sci.; £30 in arts and soc. scis.

**ACADEMIC YEAR.** 1962-63: M'Mas, Oct. 7-Dec. 22; Trin, Jan. 30-Mar. 30; Hil, April 21-June 29. 1963-64: M'Mas, Oct. 6-Dec. 21; Trin, Jan. 19-Mar. 26; Hil, Apr. 19-June 27. 1964-65: M'Mas, Oct. 4-Dec. 19; Trin, Jan. 18-Mar. 27; Hil, Apr. 20-June 26.

## THE YEAR 1961

**RESIGNATIONS.** J. Gilman (surg.), J. L. Chandler (chem.); M. B. Butterworth (regional res. centre), to Venezuela; T. R. Houghton (agric.), K. C. Vernon (regional res. centre), M. Morris (asst. registrar), R. J. Reid (phys.), to Leeds; W. D. Richardson (bot. & plant pathol.), R. D. Stevick (Engl.), to Univ. of Washington, Seattle; P. Mark (govt.), to Puerto Rico; C. J. Bartlett (hist.), to Queen's Coll., Dundee; P. A. Allinson (phys.), apptd. lectr. in phys., Hull; G. E. Hodnett (regional res. centre), to Ibadan; P. R. Sanders (maths.); R. H. Burnell (chem.); R. B. Hall (phys.); A. Grimsom (chem.), to Puerto Rico; M. Daniels (chem.), to Puerto Rico; J. L. Chandler (hist.), to London; P. Weston (surg.), apptd. sr. registrar, urol., Durham; M. Locke (zool.); R. Cade (maths.); Z. A. Henry (extra-mural).

**SCHOLARSHIPS.** The univ. awards open schol., by exams held in the Caribbean territories each yr. In addition, several of the territories award exhibitions to those educated or born in the territory. Private benefactions have establd. other awards. Several schol. have been endowed under the Princess Alice appeal.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARD.** T. Goides Grant res. fellowship, awarded to grads. normally resident in the Caribbean territories for postgrad. work in subjs. of Caribbean interest.

**GRADUATES' ASSOCIATIONS.** Guild of grads. incl. not only grads. of the Univ. of the West Indies but grads. of other univ. instns. recog. for the purpose by the council.

**RESIDENCE.** Undergrads required to live in residence for a yrs. of their course. Halls for men: Chancellor Hall, Taylor Hall, Irvine Hall and Milner Hall. Women: Mary Seale Hall, Address of Milner Hall: Univ. of the West Indies, St. Augustine, Trinidad, West Indies. Address of all others: Univ. of the West Indies, Mona, Kingston 7, Jamaica, West Indies.

**STAFF RESIDENCES.** Houses and flats made available to members of staff.

**HEALTH SERVICES.** Members of staff and students receive med. attention through the univ. health service in Jamaica, and through the med. officer, St. Augustine.

**STUDENTS' UNION.** There is a guild of undergrads, which among other activities manages a students' union.

**PUBLICATIONS.** *Year Book*, *Principal's Report*; *Caribbean Quarterly*; *Caribbean Affairs* (series of pamphlets); *Social and Economic Studies*; *West Indian Medical Journal*; *The Pelican*, *The Pelican Annual* (student publications); *St. Augustine: Prospects*; *Tropical Agriculture* (from 1934, publd. in London); *News and Reports*.

## Mona

### Statistics

#### STUDENT NUMBERS, 1961-62

	Full-Time Part-Time	
Men	756	—
Women	416	—
Total	1172	—

**Distribution by Faculties.** Arts, 355; admin., 48; med., 269; nat. scis., 309; soc. scis., 191. Total: 1172.

Included in the figures above are:—

Postgraduate students, 37.

New admissions, 493.

Students from other countries, 12.

## WEST INDIES

DEGREES AWARDED (sp. relationship with Univ. of London) (1960-61) *Arts*: BA, 35; BA hon., 21. *Med*: MB BS, 33. *Nat. sci.*: BSc, 20; BSc sp., 13. Total number of first degrees awarded, 122.

DIPLOMAS AWARDED (1960-61). DipEd, 50, pub admin., 8.

Distribution by Faculties *Agric.*, 68; *engn.*, 28. Total 96

Included in the figures above are —

Postgraduate students, 30.

New admissions, 34.

Students from other countries, 29.

# Statistics

## St. Augustine

### STUDENT NUMBERS, 1961-62

	Full-Time	Part-Time
Men	96	—
Women	—	—
Total	96	—

DIPLOMAS AWARDED (1961) DICTA, 12, DTA, 15, AICTA, 2

# APPENDICES

- I Universities of the Republic of Ireland (p. 1422)
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APPENDIX I

UNIVERSITIES OF THE REPUBLIC  
OF IRELAND

UNIVERSITY OF DUBLIN, TRINITY COLLEGE (p. 1422)  
NATIONAL UNIVERSITY OF IRELAND (p. 1432)  
UNIVERSITY COLLEGE, DUBLIN (p. 1434)  
UNIVERSITY COLLEGE, CORK (p. 1440)  
UNIVERSITY COLLEGE, GALWAY (p. 1445)

[Information compiled as at 29/8/62]

UNIVERSITY OF DUBLIN,  
TRINITY COLLEGE

Founded 1592

*Postal Address:* Dublin 2, Republic of Ireland  
*Cables and Telegrams:* Trinity, Dublin  
*Telephone:* Dublin 72941-6

CHANCELLOR—The Rt. Hon. THE EARL OF ILMAR, KG, CB, CMG, LL.D.  
VICE-CHANCELLOR—The Rt. Hon. THE EARL OF ROSSE, LL.D.  
VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); The Hon. Mr. Justice  
T. C. KINGSMILL MOORE, LL.D.  
PROVOST—A. J. MCCONNELL, DURORE, Hon. D.Sc. *Belf.*, Hon. Sc.D. *Col.*, MA ScD  
LIBRARIAN—H. W. PARKER, MA *Oxon.* & *Dub.*, LittD  
BURSAR—W. J. L. RYAN, MA PhD  
REGENT—G. F. MITCHELL, MA MSc  
SENIOR LECTURER—T. W. MOODY, BA Hon. DLit *Belf.*, PhD *Lond.*, MA  
SENIOR TUTOR—F. S. L. LYONS, MA PhD  
TREASURER—F. C. W. WINKELMANN, MA

## SENIOR FELLOWS OF THE COLLEGE

Luce, A. A., MC, Hon. DLat Belf, MA LittD DD	Duncan, G. A., MA LitB
Johnston, J., MA Oxon. & Dub.	Walton, E. T. S., PhD Camb, Hon. DSc Belf, MA MSc
Godfrey, F. La T., MA, <i>Catechist and Sr. Dean</i>	Seamford, W. B., MA LittD
Parke, H. W., MA Oxon. & Dub., LittD, Vice- Provost and Librarian	

## JUNIOR FELLOWS OF THE COLLEGE

Wormell, D. E. W., MA Camb. & Dub., PhD <i>Yale, Public Orator</i>	Riley, E. C., MA Oxon. & Dub., PhD, MAI ScD
Moody, T. W., BA Hon. DLat Belf, PhD Lond., MA, Sr. Lectr.	Wongreen, J., MA PhD
O'Meara, R. A. Q., MA ScD MD, FRCP	Arnould, E. J. F., PhD DLat Lond., DScL Paris, MA Lond. & Dub.
Mitchell, G. F., MA MSc, Registrar	Cooker, W., PhD DSc Manc., MA ScD, FRIC
Quinn, E. G., MA	Jessop, W. J. E., MSc MD, FRCP
Pauling, E. J., MA	Greene, D. W., MA
Grigg, A. H., MSc Belf., PhD Lond., MA, Tutor	Wright, W., BSc Glas., PhD Aberd., MA, MICE
Luce, J. V., MA Oxon. & Dub., Tutor	McMurry, T. B. H., MA PhD
Webb, D. A., MA PhD Camb. & Dub., ScD	Erskine, C. A., MA PhD
Pyle, W. F., MA PhD, Sr. Practor	Stewart, F. S., BA MD, FRCP
McDowell, R. B., MA PhD, Tutor, Jr. Dean and Registrar of Chambers	Downrick, F. E., MA Oxon. & Dub., Tutor
Pepper, D. C., BSc Lond., PhD Camb., MA	Watts, W. A., MA, Tutor, Jr. Practor
Lyons, F. S. L., MA PhD, Sr. Tutor	Dawson, G. W. P., BSc Lond., MA Camb. & Dub.
Chubb, F. B., DPhil Oxon., MA Oxon. & Dub.	Granger, J. N. R., PhD Lond., BA MSc
Delaney, C. F. G., MA PhD	Edwards, P. W., MA PhD Birm.
Ryan, W. J. L., MA PhD, Burner	Wander, F. G. A., MSc NU I, MA, Tutor

## HONORARY FELLOWS

Ross, Sir W. David, KBE, LittD, FBA	Starkes, W. F., CBE, MA LittD
Weaver, J. R. H., MA LittD	Syrge, J. L., MA ScD, FRB
Clark, Sir George N., MA Camb. & Oxon., DLitt Oxon., Hon. LL.D. Aberd., Hon. LittD Utrecht, Hon. DLat Durk., <i>Sheff. Hall &amp; Col.</i> , Hon. LittD, Camb. & Dub., FBA	McConnell, A. A., MA MCh, FRCSI
	Hewson, G. H. P., MA MunD
	Friel, E. S., M.DentSc ScD

## TEACHING STAFF

[† = Part-Time]

<b>Anatomy, Human, and Embryology,</b> see also Zool		<b>Botany and Plant Biology</b>	
Erskine, C. A., MA PhD	Prof.	Webb, D. A., MA PhD Camb. & Dub., ScD	Prof.
Kinnear, N. A., MA MB, FRCSI		Watts, W. A., MA	Lectr.
	(Appl. A) Lectr.	Lochl, Mrs. Dorothy M., BSc PhD Glas., MA	Jr. Lectr.
Weekes, Blanche, MA MD MSc		Taggart, J., BSc PhD Glas.	Jr. Lectr.
(Human A.) Lectr., Tutor			
O'Monchoe, C. C. C., MA MD	Jr. Lectr.	<b>Business Studies</b>	
		Ryan, W. J. L., MA PhD (Indust. Econ.)	Prof.
		Lyons, F. S. L., MA PhD (Econ. Hist.)	Lectr.
		Haughton, J. P., MA MSc	
<b>Arabic, see Oriental Languages.</b>			(Comm. Geog.) Lectr.
		Thornton, E. H., MSc(Econ.) Lond., MA (Stats.) Lectr., Tutor	
<b>Archæology, see Classical Archæol. and Irish Archæol.</b>		Abd El-Motaz, M. H. B., BCom Cairo, MCom Birm.	(Acctg.) Lectr.
<b>Astronomy</b>		Magrath, C. R. R., MA	
O'Connor, F. J., MA	Lectr.	(Bus. Orgn., Banking, Foreign Trade)	†Lectr.
<b>Biochemistry, see Medicine</b>			



Moran, Prof. Frances E., Hon. LL.D. *Belf.*,  
MA LL.D. (Comm. Law) †Lectr.  
Cottigen, T. H., MA (Insurance) †Lectr.  
Smurthwaite, J., MA (Indust. Psychol.) †Lectr.  
Foley, P. A., MA (Transport) †Lectr.  
Pakenham-Walsh, A. A., MA *Oxon.* & *Dub.*  
(Management) Lectr.  
Abrahamson, M. W., MA LL.B.  
(Indust. & Comm. Law) †Lectr.

#### Celtic Languages, see also Irish

Quinn, E. G., MA Reader

#### Chemistry

Cocke, W., Ph.D. DSc *Manch.*, MA ScD,  
FRIC Prof.  
Pepper, D. C., BSc *Lond.*, Ph.D. *Canb.*,  
MA (Phys. C) Prof.  
Stuart, E. R., BSc *St. And.*, MA, FRIC  
Lectr., Tutor  
McMurry, T. B. H., MA Ph.D. Lectr.  
Davis, W. J., BSc Ph.D. *Belf.*, MA Lectr.  
Lanegan, G. A., BSc *N. U. I.*, MA Jr. Lectr.  
Boyle, P. H., BA Jr. Lectr.  
Brown, G. R., BA Ph.D. Jr. Lectr.

#### Classical Archaeology

Parke, Prof. H. W., MA *Oxon.* & *Dub.*,  
LitD. Louis Claude Parier Lectr.

#### Classics

Stanford, W. B., MA LittD (Greek) Regius Prof.  
Wormell, D. E. W., Ph.D. *Yale*,  
MA *Canb.* & *Dub.* (Latin) Prof.  
Luce, J. V., MA *Oxon.* & *Dub.* Lectr.  
Hinds, A. E., MA Jr. Lectr.  
Goodman, Valerie A. H., BA *Lond.* Jr. Lectr.

#### Dentistry

Friel, E. S., MDentSc ScD (Orthodontics) †Prof.  
†Lecturers  
Genly, A., MA BDentSc (D. Prosth.)  
O'Brien, E. E., MA MD (Med. for D. Students)  
Dockrell, R. B., MA BDentSc MB (D. Anat.)  
Healy, K. G., MA LDS (D. Surg.)  
Hogan, N. J., BA MB BDentSc (Oral Surg.)  
McCollum, S. T., MA MB, FRCSI  
(Surg. for D. Students)

#### Divinity, see Theol.

#### Economics, see Pol. Econ. and Business Studies

#### Education

Crawford, Rev. E. A., MA BD Ph.D. Prof.  
Williams, P. C., BSc(Econ) *Lond.*,  
MA *Wales* Lectr.  
Powell, J. P., BA *Brist.* Jr. Lectr.  
Little, Mrs. Anita C., MA Asst.

#### Engineering Science

Wright, W., BSc *Glas.*, Ph.D. *Aberd.*, MA, Prof.  
MICE  
FitzGibbon, G., MA MAI  
(Civil E.) Reader, Tutor  
Graham, V. W., MA (Maths) Lectr.  
O'Clery, D., MA MAI (Mech. E.) Lectr.  
Karwan, R. W., MA MAI (Civil E.) Lectr.  
Eccles, W., MSc *Manch.*, MA (Mech. E.) Lectr.  
Scaife, B. K. P., BSc(Eng) Ph.D. *Lond.*  
(Electr. E.) Lectr.  
MacCormack, P. D., BA BSc Ph.D.  
(Electr. E.) Lectr.  
Scaife, W. G. S., BSc(Eng) *Lond.* Lectr.  
Houghton, D. N., BA MAI  
(Bldg. Construcn.) †Lectr.  
Jones, N. E., BA BAI (Town Planning) †Lectr.  
O'Neill, J. W., BA MAI, MIEE  
(Electr. E.) †Lectr.  
Cox, R. C., MA BAI (Civil E.) Jr. Lectr.

#### English Language and Literature

Edwards, P. W., MA Ph.D. *Birm.* Prof.  
Pyle, W. F., MA Ph.D. Reader  
French, R. B. D., MA Lectr., Tutor  
Walton, J. K., MA MLitt Lectr., Tutor  
Pheffer, J. D., BA *Notre Dame*, MA *Oxon.*  
Jr. Lectr.  
Salveson, C. G., BA BLitt *Oxon.* Jr. Lectr.  
Reid, F. A., BA Asst.  
Chystrasser, Anne, BA Asst.

#### French

Arnould, E. J. F., Ph.D. DLitt *Lond.*,  
DPhil *Paris*, MA *Lond.* & *Dub.* Prof.  
Steffington, O. L. S., MA Ph.D. Reader  
Leventhal, A. J., MA Ph.D. Lectr.  
Shields, H. E., MA Jr. Lectr.  
O'Regan, M. J., MA *Lond.* & *Dub.* Jr. Lectr.  
Rollin, Genevieve, BA Jr. Lectr.  
North, Meta E., MA Asst.

#### Genetics

Dawson, G. W. P., BSc *Lond.*,  
MA *Canb.* & *Dub.* Reader  
Smith-Keary, P. F., BA Ph.D. Jr. Lectr.

#### Geography

Houghton, J. P., MA MSc Reader  
Andrews, J. IL, MA *Canb.*, Ph.D. *Lond.*  
Lectr., Tutor  
Davies, G. L., MA *Manch.* & *Dub.* Lectr., Tutor  
Anlen, F. H. A., BA *Dub.*, MA Jr. Lectr.  
Soulsby, J. A., MA *Aberd.* Jr. Lectr.

#### Geology and Mineralogy

Hudson, R. G. S., DSc *Lond.*, FRSE Prof.  
Mitchell, G. F., MA MSc Lectr.  
Bailey, D. K., BSc Ph.D. *Lond.*, MA  
(on leave) Lectr.

Lewarne, Gillian C., BSc PhD *Rég.*

MA

Phillips, A., BA *Camb.*Naylor, J., BSc *Camb.*

Jr. Lectr.

Jr. Lectr.

Jr. Lectr.

**Geophysics**

Peole, J. H. J., MA MAI ScD

Prof.

**German**Thomas, L. H. C., MA *Oxon.* & *Dub.*

Reader

Losei, F. A. G., DrPhil *Frau.*, MA Lectr., TutorO'Boyle, Ita, MA *N.U.I.* & *Dub.*BLitt *Oxon.*

Jr. Lectr.

Wells, J. J., BA *Leeds*

Asst.

**Hebrew, see Oriental Langs****History, Ancient**Parke, H. W., MA *Oxon.* & *Dub.*, LittD

Prof.

**History, Ecclesiastical, see Theol.****History, Modern, see also Oratory and Hist**Moody, T. W., BA Hon. DLit *Belf.*

Prof.

O'way-Rushen, Annette J., PhD *Camb.*

Prof.

MA

McDowell, R. B., MA PhD

Reader

Lyons, F. S. L., MA PhD

Reader

O'Sullivan, D., MA LittD

(Internat. Affairs) Lectr.

Lydon, J. F. M., MA *N.U.I.* & *Dub.*

Lectr., Tutor

PhD *Leid.*

Asst.

Summs, J. G., MA *Oxon.* & *Dub.*, PhD

Jr. Lectr.

Drake, K. M., MA *Camb.***Irish**

Greene, D. W., MA

Prof.

O'Connell, M., MA

Lectr.

.....

Lectr.

Risk, Mrs. May H., MA PhD

Jr. Lectr.

**Irish Archaeology**

Mitchell, G. F., MA MSc

Reader

**Italian**McWilliam, G. H., BA *Leeds*, MA

Lectr.

Tomacelli, E., DGuir *Naples*, MA

Lectr.

Salvadori, Corinna, MA *N.U.I.*

Jr. Lectr.

**Law, see below****Mathematics**Halberstam, H., BSc PhD *Leid.*

Prof.

(Pure M.) Erasmus Smith's Prof.

Chisholm, J. S. R., MA PhD *Camb.*

Prof.

(Appl. M.) Univ. Prof.

Meredith, C. A., MA *Camb.*

Lectr.

Graham, V. W., MA

Lectr.

Crane, L. J., BSc PhD *Glas.*

Lectr.

Flondos, P. S., BSc PhD *Leid.*

Lectr.

Murdoch, B. H., AM PhD *Prin.*, BA

Jr. Lectr.

**Medicine, see below****Music**Boydell, B. P., BA *Camb.* & *Dub.*, MusD

†Prof.

**Oratory and History, see also Hist. Mod.**Moody, T. W., BA Hon. DLit *Belf.*PhD *Leid.*, MA

Erasmus Smith's Prof.

**Oriental Languages, see below****Philosophy**

Furlong, E. J. J., MA

Prof.

Luce, A. A., MC, Hon. DLit *Belf.*, MA

LittD DD (Metaphys.) Berkeley Prof.

Godfrey, F. La T., MA

Lectr.

Denard, W. V., MA BLitt

Lectr.

Coles, N., BA BPhil *Oxon.*

Jr. Lectr.

O'Neill, B. C., BA BPhil *Oxon.*

Jr. Lectr.

**Phonetics**

Quin, E. G., MA

Lectr.

**Physics**Walton, E. T. S., PhD *Camb.*, Hon. DSc*Belf.*, MA MSc

Erasmus Smith's Prof.

Delaney, C. F. G., MA PhD

Reader

Poole, Prof. J. H. J., MA MAI ScD

Lectr.

Gragg, A. H., MSc *Belf.*, PhD *Leid.*, MA

Lectr.

Elliott, R. B., MSc *Bom.*, BA

Lectr., Tutor

McAulay, I. R., BA PhD

Jr. Lectr.

**Physiology**

Torrens, D. S., MA MB

Prof. &amp; King's Prof. of Insts. of Med.

Wilson, R. MD, FRCPI (Appl. P.) Lectr.

Fry, R. J. M., BA MD

Lectr.

O'Morchao, Mrs. Jean, MB

Jr. Lectr.

Walsley, J. B. W., MB *Belf.*

Jr. Lectr.

**Political Economy, see also Bus. Studies**

Duncan, G. A., MA LLB

Prof.

Johnston, J., MA *Oxon.* & *Dub.*

(Appl. Econ.) Prof.

Ryan, Prof. W. J. L., MA PhD

Lectr.

Tait, A. A., MA *Edu.* & *Dub.*

Jr. Lectr.

Brook, Catherine, MA *Oxon.*

Jr. Lectr.

McGivray, J., MA *Edu.*

Jr. Lectr.

O'Donoghue, M., BA BComm

(on leave) Jr. Lectr.

**Political Science**Chubb, F. B., DPhil *Oxon.*, MA *Oxon.* &*Dub.*

Prof.

Thornley, D. A., MA PhD

Lectr., Tutor

**Russian**MacBride, Winifred, MA *Glas.* & *Edin.*

Lectr.

McMackin, Margaret M., MA *Belf.*

Lectr.

<b>Sanskrit</b> , see <i>Oriental Languages</i> , below		<b>Laryngology and Otolaryngology</b>	
<b>Social Studies</b>		Woods, R. R., BA MB, FRCSI	†Lectr.
Clotty, Miss Mary S., MA <i>Aberd. &amp; Dub.</i>	Der.	<b>Materia Medica and Pharmacy</b>	
Coughlan, J. A., MA <i>N.U.I.</i>	Jr. Lectr.	Micks, R. H., MA MD, FRCPI	†King's Prof.
<b>Spanish</b>		<b>Medical Jurisprudence</b>	
Riley, E. C., MA <i>Oxon. &amp; Dub.</i>	Reader	Wallace, J. A., BA BSc MB, FRCPI	†Lectr.
Rogers, D. C. de W., MA	Jr. Lectr.	<b>Medicine, Experimental</b>	
Adams, K. W. J., BA <i>Lond.</i>	Jr. Lectr.	O'Meara, R. A. Q., MA ScD MD, FRCPI	Prof.
<b>Theology</b> , see below		Thornes, R. D., BA PhD MD	Lectr.
<b>Veterinary Medicine</b> , see below		<b>Midwifery</b>	
<b>Zoology and Comparative Anatomy</b>		Davidson, A. H., BA MD, FRCPI,	
Granger, J. N. R., PhD <i>Lond.</i> , BA MSc	Prof.	FRCOG	†King's Prof.
Howe, D. I. D., BSc PhD <i>St. And.</i> , MA	Lectr., Tutor	Fleming, J. B., MA MAO MD, FRCPI,	
Goodhue, R. D., BSc PhD <i>Lond.</i>	Jr. Lectr.	FRCOG ( <i>Midwifery &amp; Gynaecol.</i> )	†Prof.
Powell, B. L., BSc <i>Waler.</i>	Jr. Lectr.	McVey, H., BA MAO MD	†Asst.
		Bionne, A. D. H., BA MAO MD	†Asst.
<b>LAW</b>		<b>Pediatrics</b>	
Moran, Frances E., Hon. LLD <i>Belf.</i> , MA		Steen, R. E., BA MD, FRCPI	†Prof.
LLD	†Regius Prof. of Laws	Doyle, E. E., FRCPI	†Lectr.
Delany, V. T. H., MA LLD	Prof.	Rees, J. P. R., BA MB, FRCPI	†Lectr.
Downick, F. E., MA <i>Oxon. &amp; Dub.</i>	Reader	<b>Pathology</b>	
Jackson, P., LLB <i>Law.</i> , BCL <i>Oxon.</i>	Jr. Lectr.	O'Meara, R. A. Q., MA ScD MD, FRCPI	Prof.
<b>Penal Legislation, Constitutional and Criminal Law, and Law of Evidence</b>		Mullaney, Mrs. Joan M., MD BSc <i>N.U.I.</i> , MA	Reader
Russell, M., BA LLB	†Reid Prof.	McCrea, P. C., MD <i>Belf.</i> (Appl. P.)	†Lectr.
<b>Roman Law</b>		Clarke, N. P. G., MB BSc <i>N.U.I.</i> , MA	(on leave) Lectr.
McKenna, C. B., LLD	†Lectr.	Hall, N. J., BA MD	Lectr.
<b>MEDICINE (PHYSIC)</b>		<b>Pharmacology</b>	
(for subs. of the first 2 yrs.—Anat., etc., see above)		Pennington, G. W., MD <i>Liv.</i> , MS <i>Calif.</i> , MA	Reader
<b>Genby, P. B. B., MA MD, FRCPI</b>		Prof.	
O'Brien, B. E., MA MD	Lectr.	<b>Physic</b>	
<b>Anaesthetics</b>		Synge, V. M., BA MD, FRCPI	Regius Prof.
McCormick, V. O., MA MD, FRCPI	†Lectr.	<b>Psychological Medicine</b>	
<b>Bacteriology and Preventive Medicine</b>		Eussace, H. J., BA MB DPM	†Lectr.
Stewart, F. S., BA MD, FRCPI	Prof.	Moore, J. N. P., BA MD DPM, FRCPI	†Lectr.
McKeever, J. D., MA MD	Lectr.	McCacken, T., BA <i>Belf.</i> , MB <i>N.U.I.</i>	†Lectr.
Roberts, W. S. L., MA	Lectr.	<b>Radiology</b>	
Archer, G. T. L., CB, BA MB	Lectr.	McDonagh, C. L., MA MD	†Lectr.
Pomeroy, Harriet M., MA	Asst.	<b>Social Medicine</b>	
<b>Biochemistry</b>		Jessop, W. J. E., BA MSc MD, FRCPI	Prof.
Spencer, B., BSc PhD <i>Liv.</i>	Prof.	Bourke, G. J., MB <i>N.U.I.</i>	Lectr.
Boggs, W. A., MSc <i>Durb.</i> , MA PhD	Lectr.	Pringle, R. B., MB BChir <i>Camb.</i> , FRCPI	
Ors, B. A., BSc PhD <i>R'dg.</i>	Lectr.	(Indust. Med.)	†Lectr.
<b>Dermatology</b>		McCosmack, J. D., MC, Hon. MSc <i>N.U.I.</i>	†Lectr.
Mitchell, D. M., MA MD, FRCPI	†Lectr.	(Control of Infectious Dis.)	
		Harbison, J. A., MD <i>Belf.</i> , MPH <i>Hart.</i>	†Lectr.
		DPH	(Pub. Health) †Lectr.

Barry, V. C., DSc *N.U.I.*  
(Chemotherapy) †Lectr.  
Coffey, Victoria McC. (Teratol.) †Lectr.

# Surgery

Pringle, J. S. M., BA MB Camb. & Dub.,  
FRCS †Regius Prof.  
Henry, R. F. J., BA MB, FRCSI  
(Clin. Surg.) †Prof.  
McCallum, S. T., MA MB, FRCS †Asst.  
Fegan, W. G., BA MCh, FRCSI  
(Clin. Surg.) †Lectr.  
O'Neill, T., MCh MD *N.U.I.* (Clin. S.) †Lectr.  
Shaw, K. M., BA MD, FRCSI  
(Thoracic S.) †Lectr.

# Surgery, Orthopaedic

Chance, A., BA MCh MD, FRCS Hon. Prof.

# Surgery, Urological

Lane, T. J. D., MA MD MCh †Lectr.

# ORIENTAL LANGUAGES

## Arabic

Wengreen, Prof. J., MA PhD Lectr.

## Hebrew

Wengreen, J., MA PhD Erasmus Smith's Prof.  
Baker, J., MA LL.B. PhD †Lectr.  
Nicholson, E. W., BA Jr. Lectr.

# Sanskrit and Comparative Philology

Quin, E. G., MA Lectr.

# THEOLOGY

(see also Oriental Languages)

## Biblical Greek

Quin, Rev. C. W. C., BA BD †Prof.

## Divinity

..... Regius Prof.  
Vokes, Rev. F. E., MA BD Camb.  
Archbishop King's Prof.

Armstrong, Rev. J. W., MA BD †Wallace Lectr.  
Jenkins, Rev. R. G. F., MA BD (Bible) †Lectr.  
Proctor, Rev. W. C. G., MA BD †Asst.  
Greening, Rev. E. W., MA BD †Asst.  
Salmon, Rev. T. N. D. C., MA BD †Asst.  
Emmison, Rev. N. D., BD Lond., MA  
LL.B. PhD †Asst.

# Ecclesiastical History

Davies, Rev. G. C. B., MA DD Camb. &  
Dub. Prof.

# Pastoral Theology

Davies, Rev. G. C. B., MA DD Camb. &  
Dub. Prof.

# VETERINARY MEDICINE

## Clinical Veterinary Practices

Beuter, J. T., MA Prof.  
Earnshaw, D. G., BSc Educ., MA  
(Surg.) Sr. Lectr.  
Nunn, W. R., BA MVB Lectr.  
McCaughy, W. J., MS Ohio State, BA  
MVB (Prev. Med.) Lectr.  
Milton, J. A., BSc Abord.  
(Animal Husbandry) Lectr.

## Clinical Veterinary Sciences

Sleeth, F. St. G., MA Prof.  
Hatch, C., MS Iowa, MA (Parasitol.) Sr. Lectr.  
Gallagher, M. A., MSc MA (Bacteriol.) Sr. Lectr.  
Irwin, M., BVetSci Paup., PhD Lond.  
(Pathol.) Lectr.  
Yason, S. A., MSc PhD (Bacteriol.) Lectr.

## Pre-Clinical Veterinary Sciences

Nicholson, J. A., MA Camb. & Dub.,  
PhD Camb., MVBSci *N.U.I.* Prof.  
Kenting, J. P., BSc Lond., MA (Anat.) Sr. Lectr.  
Ernst, J. A., BSc MVB *N.U.I.* (Anat.) Lectr.  
Murphy, O. M. G., MA Camb., BSc Educ.  
(Physiol.) Lectr.  
Winder, F. G. A., MSc *N.U.I.*, MA  
(Biochem.) Lectr.  
Jackson, N., BSc Agr PhD Belf.  
(Pharmacol.) Lectr.

# ADMINISTRATIVE AND OTHER STAFF

Public Officer: D. R. W. Wormell, MA Camb.  
& Dub., PhD Yale. Dep. Librarian: F. J. E.  
Hurst, MA Oxon. & Dub. Asst. Registrar: J. H.  
Shaw, MA. Sec. to Registrar: D. M. O'N.  
Britton, BCom Birm., MA. Agent: J. M. Walsh,  
MC, MA. Dean of Women Students: Anne  
E. R. Brambell, MA. Warden of Residences:  
Margaret E. MacManus, MA. Appointments  
Officer: D. N. K. E. Montgomery, BA. Sec.,  
Houses of Residence Cttee.: Margaret E. Mac-  
Manus, MA. Law Agent and Keeper of the

Records: D. McGilguydy, MA. Clark of  
Exams.: Winifred M. Matthews, BA. Medical  
Adviser to Resident Students: J. A. Wallace,  
BA BSc MB, FRCP. Consulting Architect:  
A. I. N. Roberts, BA Camb., MA B.A., Account-  
ant W. T. Booker, MA. Warden, Trinity Hall:  
Anne E. R. Brambell, MA. Deans of Residences:  
(Presbyterian Students) Rev. G. B. G. McConnell,  
BA Belf., MA; (Church of Ireland) Rev. E. C. T.  
Perdue, BA BD, (Methodist) Rev. G. W. Fer-  
guson, MA.

## ASSOCIATED COLLEGES

**CHURCH OF IRELAND TRAINING COLLEGE, 4 Kildare Place, Dublin, 4** (tel. 62346). Chaplain—Secretary—Rev. R. J. Ross, MA BD. The 2 yrs course of trng for teaching in primary schools is conducted partly at Trinity College, Dublin, and exempts from 1st 2 yrs of BA course provided that the candidate is qualified for matric.

**MAGEE UNIVERSITY COLLEGE, Londonderry**

(tel. Londonderry 3145). President—W. G. Guthrie, MA Edu, PhD St And. Students of Magee Univ. Coll. may proceed to the degree of BA (hons. or pass) of the univ in the following subs.: maths, classics, philos., mod. lit., anc. & mod. lit., mod. hist. & pol., econ. & pol. Such students must attend lectures at Trinity Coll. for at least 1 term in the 3rd & 4th yrs. Full details on applic. to sr. tutor, Trinity Coll.

## GENERAL INFORMATION

Trinity Coll. was founded and incorporated by royal charter in 1592 as 'mater universitatis', but no other coll. has been founded, so that 'Dublin Univ.' and 'Trinity Coll.' are practically interchangeable terms. The original charter granted very full legislative powers to the provost and sr. fellows, who constituted the bd. Legislation of Charles I took away many of these powers, which were restored to the crown. By letters patent of 1911 the crown again granted wide powers of making statutes to the corporation, subject to the consent of a majority of the fellows and the approval of the visitors.

Dublin (pop. 716,156) is the capital and principal seaport of Ireland, lying on the E. coast at the hd. of Dublin Bay.

**CONSTITUTION.** The general govt. of the coll. is in the hands of the bd. of Trinity Coll., which consists of the provost, sr. fellows, 4 reprs. of jr. fellows and 2 reprs. of the non-fellow profrs. The univ. council, formed by reprs. from the bd. and various facs. and schs., has the right of nomination to most professorships, and in conjunction with the bd. can make changes in the curriculum, but otherwise has only advisory functions.

**REPRESENTATIVES IN SENIAD BERDANN.** W. B. Stanford, MA LittD; J. N. Ross, BA LLB; W. J. E. Jessop, MSc MD, FRCP.

**INCOMES (1961-62).** Total income, £567,477 (govt. grant, 37.9 per cent.; endowments, 16.6 per cent.; fees, 38.5 per cent.; payment for services, 3.7 per cent.; other, 3.3 per cent.)

The COLL. PREMISES comprise a site of 38 acres facing College Green in the centre of the city. To the W. are the older coll. bldgs., chapel, hall, library, residential bldgs., etc., most of which date from the 18th century. Further E. are the labs. and med. sch. (19th and 20th century). Between lies the spacious College Park, where the principal sporting and athletic fixtures are held. The coll. also has 20 acres of playing fields at Santry, 4 miles to the N. on the outskirts of Dublin.

The Library of Trinity Coll. has enjoyed since 1801 the privilege of receiving a copy of every book pubd. in the U.K. It contains about 920,000 printed books and over 3000 MSS. incl.

an important collection in Irish. The Lecky lib., based on the lib. of the historian W. E. H. Lecky, caters for the schs. of hist., econ. and legal sci. There are smaller librs. in the schs. of mod. langs., med., maths, nat. scis., geog., philol. and educn.

**MUSEUMS.** Zool. and comp. anat., geol. and mineral., anat., pathol., biblical antiquities. The zool. collection is one of the best in the country. Attached labs. offer all facilities for res. work.

**LABORATORIES.** Anat., bacteriol., biochem., bot., chem., engin., genetics, geol. (Ivagh), geog., histol., pathol., pharmacol., phys. (Ivagh), physiol., soc. med. (Moyns), zool.

**HERBARIUM** (rich in plants of N. America, India, S. Africa and Australia). **BOTANIC GARDENS** (Lansdowne Rd., Dublin, 4), 4 acres.

**HOSPITALS.** Facilities for clin. and postgrad studies provided in Adelaide, Month, Recunda, R. City of Dublin and Sir Patrick Dun's hosp.

The univ. is not organized into FACULTIES.

**PROFESSIONAL SCHOOLS.** Agric., business & soc. studies, dent., div. educn., engin., for., law, music, physyc., vet. med. Registrars—agric.—A. A. Pakenham-Walsh; busines & soc. studies—Mrs. M. S. Crotty; educn.—Rev. Prof. E. A. Crawford; engin.—Prof. W. Wright; law—F. E. Downick; med.—Prof. B. P. Boydell; physyc.—Prof. W. J. E. Jessop (dent); vet. med.—Prof. W. J. E. Jessop.

**ADMISSION.** All applics. must be made to the sr. tutor. The matric. exam., held 3 times a yr., comprises: (1) English composition & lit.; (2) one subj. from the group; maths., addnl. maths., phys., chem., hist., geog., biol.; (3) one subj. from the group; French, German, Greek, Hebrew, Irish, Italian, Latin, Spanish; (4) any two other subs. from (2) and (3). All candidates must present themselves either in maths. or in Latin. Candidates for admission to the honour schs. of classics, mental and moral sci., mod. lit. & anc. & mod. lit., Celtic langs., mod. hist. & pol. sci., legal sci., and to the professional schools of div. and law, are required to qualify in Latin.

**EXAMS.** exempting from matric. incl.: Leaving Cert. of Dept. of Educn., Ireland; General Cert. of Educn. awarded by approved examining body in

England or Wales (see p. 155a) with at least 2 subs. at advanced level; music exam of any Irish or U.K. univ. and of any other univ. recog. by the bd. of Trinity Coll. If such cert., do not cover all the prescribed subs. of matric, the candidate must pass the Dublin matric. exam in the subj. or subs. in which he is deficient. Overseas students must satisfy the sr. tutor that they have an adequate knowledge of Engl., both spoken and written. They may obtain exemption from one European lang. other than Engl. on presenting evidence of having passed a recog. exam. in their own lang. Having qualified for matric, candidates must obtain admission from the sr. tutor, for which purpose they must produce evidence of character and of academic suitability. Financial guarantees are required from overseas students. All candidates for admission to the schs. of phys., nat. sci. and agric. music, in addn. to complying with the foregoing general requirements, be approved by the admission ettee. of the sch. concerned. Overseas candidates for admission to the honour sch. of legal sci. and to the professional sch. of law must be approved by the legal studies admission ettee. All candidates who have been admitted by the sr. tutor enter the coll. by paying the first coll. fee. The collegiate interests of all students on the coll. books are under the guardianship of the tutors. Students are normally assigned to tutors by the sr. tutor at entrance.

All candidates must apply before March 1 of the yr. in which entrance is sought.

**ADMISSION TO ADVANCED STANDING.** Sp. regns. provide for the grant of credit for previous academic attainments at the univs. of Oxford and Cambridge, while students or grad. of other recog. univs. may be allowed credit *pro tanto* for 1 or 2 yrs. of the Dublin arts course.

**FIRST DEGREE.** Every student must take the BA (4 yrs.) before proceeding to any other degree, except in music, agric., for and business & soc. studies. (For BA course for professional students, see below). All students not in a professional sch. are required to attend arts lectures in every term, unless specially exempted. If exempted they are required to pass extra exams. Exemption from attendance is never granted to students taking scientific subjects for the BA.

The hone. BA—known as *stodentership*—can be taken in 11 different groups, viz. 'maths'; classics; mental & moral sci.; nat. sci.; mod. lit.; anc. & mod. lit.; Celtic langs.; Oriental langs.; mod. hist. & pol. sci.; econ. & pol. sci.; legal sci. The course for each lasts 4 yrs.

For the 4-yr. course for BA hone. in nat. scis. the subs. include phys., chem., bot., zool., geol., geog., biochem., genetics and bacteriol. Students read 3 subs. in 1st yr., 2 subs. in 2nd yr. and 1 in 4th yr. Phys. and chem. are compulsory in 1st yr.

The 4-yr. pass BA course in nat. scis. covers approx. the same ground as the 1st 3 yrs. of the

honour course in nat. scis. In the last 2 yrs. the student studies 3 subs. chosen from phys., chem., bot., zool., geol., geog.

Engl. composition is a compulsory subj. throughout the pass BA course in gen. studies; otherwise a wide freedom of choice of subjects is allowed. Candidates must present themselves in Engl. composition and 4 subs. at the pass BA exam.

Professional students in business & soc. studies, dent., engin., law, med. and vet. med. read one subj. of the gen. studies course for 4 yrs. for BA pass, this is read concurrently with the professional course.

The LLB course covers 2 yrs., the MB BCh and BAO, 6 yrs., BDentSc, 6 yrs., BAI, 4 yrs. (optional 5th yr. in elect. and mech. engin.); AgrB or Agr(For)B, 4 yrs., of which 3rd and 4th are taken in Univ. Coll., Dublin (N.U.I.); BBS, 4 yrs., BSS, 4 yrs., MVB, 5 yrs., of which 4th and 5th are taken in the Vet. Coll. of Ireland, Pembroke Rd., Dublin, 4 (tel. 683511). These courses are taken concurrently with the arts course. A course lasting less than 4 yrs. is taken concurrently with the last 3 or 2 yrs. of the arts course.

**HIGHER DEGREES.** A BA of the univ. of 3 yrs.' standing may be admitted MA. There is no exam. for this, nor is a thesis required.

The MLitt is obtained by a thesis, and candidates must have at least 1 yr.'s standing in BA. They must also, except by sp. permission of the bd., be grads. with 1st or 2nd class hone. of Dub. or of an approved univ.

The BD is obtained by an exam. open to all grads. in arts of 3 yrs.' standing; the DD is open to any BD, 8 yrs. after taking BA, and is awarded on a thesis or public theol. work.

For MusB, students must matric. in arts, and then pass an exercise or practical test and 2 exams. There are no formal courses of instrn.

For MSc, candidates must be 1st grads. with 1st or 2nd class hone.; 1 yr.'s res. and a thesis is required. For PhD (open to all facs.), candidates must (except by leave of the bd.) be grads. with 1st class hone., 2 yrs.' res. and a thesis is required.

A candidate for the ScD or LittD must have at least 3 yrs.' standing in BA, or have obtained MSc, MLitt or PhD, and submit important original work, for LLD must be of MA standing—a thesis or a public work is required, for MD must have taken the MB degree, be of MA standing; for MCh must be a BCh of 3 yrs.' standing; for MAO, a BAO of 3 yrs.' standing, a thesis or exam. is required for MD, an exam. for the MCh or MAO. A candidate for MDentSc must be a BDentSc of 3 yrs.' standing, and pass an exam.; for MAI must have practised his profession for 3 yrs. after graduating as BAI and present a thesis; for AgrM must be an AgrB of 3 yrs.' standing (thesis required). A candidate for Agr(For)M must be an Agr(For)B of 3 yrs.' standing (thesis required); for MCom must be a BCom of

2 yrs.' standing (thesis required); for MVM must be an MYB of 3 yrs.' standing (thesis required).

The MusD is granted after an exercise and exam.

The degrees of LL.D, MusD, ScD, LittD and all masters' degrees may be awarded both as honorary and 'earned' degrees.

**DIPLOMAS.** Agric., 4 yrs.; soc. studies, Engl. studies (primarily for grads. of overseas univs.), 2 yrs.; bibl. studies, 1 or 2 yrs.; educn., mech. engn., 1 yr.; gynaecon. & obstet., 6 mos.; physiotherapy, 3 yrs.; religious knowledge (women), hist. of European painting, exam only. *Licence* in engin. (first 2 yrs. of arts course and complete course in engin.). *Licence* in med., surg. and obstet. sci. *Testamennum* in div. (2 yrs. course).

**FEEs.** Matric., £6; coll. fee, covering all arts and sci. lectures, £60 p.a., with addnl lab. fees in sci. (£30 p.a.); BA exam. fee, £6, BA degree fee, £9. Capitation fee for clubs and socs., £7. Mod. course total (incl. coll., hosp. and degree fees), about £560; dental sci. total (incl. coll., hosp. and degree fees), about £710; engin. total (incl. coll. and degree fees), about £346; div. free for students in arts, £36 p.a. for others, business & soc. studies, about £320.

Overseas students (i.e. from outside Ireland) pay a surcharge of 50 per cent. on all coll., tuition and lab. fees.

**APPOINTMENTS OFFICE.** For appts. officer, see 'Admin. and Other Staff', above. Tel.: Dublin 72341.

**EXCHANGE OF STUDENTS.** Exchanges of students are arranged with European countries. Visiting students give lectures, mainly on conversational French and German, and in return may attend any lectures free of charge and are given free bd. and lodging.

**STUDENTS FROM OTHER UNIVERSITIES.** Students from other univs., if recommended by their univ., may work for an academic yr. in Trinity Coll., fee, £102. Students may also be admitted for 1

term, fees vary with the courses followed. Apphens. to sr. tutor.

**ACADEMIC YEAR.** Oct. to early July 3 terms of about 10 wks. each.

**LANGUAGE OF INSTRUCTION.** English.

**INTERNATIONAL SUMMER SCHOOL.** Held in July, usually each yr. Apphens. to registrar of the summer sch.

**RESIDENCE.** The coll. has accomm. for about 350 men students. Rent, £15 to £30 p.a. for single sets and proportionately for double sets of rooms; dinner in hall, £1 4s. 6d. a week. Trinity Hall, Dairtry Rd., Dublin, 6 (tel. 91772) (warden: Anne E. R. Bismbell, MA) accomm. 92 women, bd. and residence, about £50 per term of 10 wks. There is also a hostel for div. students of the Church of Ireland.

**PUBLICATIONS.** *Calendar* (Oct.), 15s., incl. information about courses, etc.; annual supplement, 2s., results of exams, degrees conferred, etc.; sp. supplement (occasional), lists of past honss., benefactors, etc. Booklets on particular courses, etc., are available, free of charge, on apphen. to the sr. tutor. *Banns.* *Papers* of the several honour schs.; of the several professional schs.; of entrance exams, and prizes, and of pass arts, are publd. in pamphlet form at 2s. per set. *Hermathena* (twice yrly.), original papers in arts schs., price 10s. *Trinity*, an annual record, T.C.D., *Trinity News* (students'), weekly in term. *Historia*, etc. *A History of Trinity Coll.*, Dublin, vol. I, 1597-1892, by Constantia Maxwell; vol. II, 1892-1945, by Kenneth C. Bailey (Dublin Univ. Press, 1946-47). *Trinity Coll., Dublin*, by W. Macneil Dixon (1902). *Alumni Dublinenses*, 1593-1860 (2nd ed., 1935).

**UNIVERSITY PRESS.** The univ. press, housed within the walls of the coll. in a bldg. erected for the purpose in 1754, is primarily the coll. printing-house, but it has also publd. many books, beginning with the *Praegustics* of Hippocrates (1736).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Wellcome Trust, £53,000 for res. in biochem.; National Inst. of Health, £13,000 for res. in biochem.

(Total value of all benefactions received: approx. £281,800).

**NEW DEPARTMENTS AND CHAIRS.** Chair of indust. econ., chair of phys. chem.

**RETIREMENTS.** Prof. O. A. C. Irwin (biblical Greek); W. B. Butler (sociol.).

**RESIGNATIONS.** A. C. Allen (fellow); L. Bass (maths.), apptd. to post in industry; T. J. Forbes (vet. med.), apptd. to post in civil service; Prof. W. D. Gill (geol.), apptd. to chair of col. technol., Lond.; D. McKenna (engin.), apptd.

to post in industry; I. K. M. Smith (vet. med.), apptd. to post in civil service; K. Whinnom, (Spanish), apptd. to chair of mod. lngs., W. Indies U.C.

**DEATHS.** T. Bodkin (hon. prof. of fine arts).

**HONORARY DEGREES.** DD—Rev A. C. Craig, moderator of gen. assembly, Church of Scotland; Most Rev. G. F. Fisher, archbishop of Canterbury; Rev. H. Roberts, principal, Richmond Coll. *ScD*—Dr. A. Farrington, formerly sec. Royal Irish Academy. *LittD*—Dr. M. Grant, vice-chancellor, Belf. *LLD*—Leticia O'Connell; Sir Charles Wheeler, formerly pres., Royal Academy. *MD*—R. Powell. *MCS*—P. Martin;

C. R. Rob, J. A. Cid Dos Santos, P. Weitholmes.

# Statistics

## STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . . 1930	206	
Women . . . 706	70	
Total	2636	276

Distribution by Faculties: *Agric.*, 38; *arts* (incl. natural sci.), 1771; *comm.*, 48; *law*, 52; *dent.*, 33; *engin.*, 136; *med.*, 422; *sci.* studies, 50; *vet. med.*, 51. Total. 2636.

Included in the figures above are —

Postgraduate students, 165.

New admissions, 669.

Students from other countries, 1158. (Countries from which largest numbers came: Gr. Britain, 743; Nigeria, 59; U.S.A., 51; Malaya, 35).

DEGREES AWARDED (1960-61): *Agric.*: AgrB, 2; *Arts*: BA, 205; BA hons., 155; MA, 145; MLitt., 4; *Comm.*: BComm., 36; *Dent*: BDentSci, 6; *Eng.*: BE, 3; *Engin.*: BAI, 18; BAI hons., 10; MAI, 1; *Law*: LLB, 9; *Med.*: MB, 43; MD, 7; *Music*: MusB, 1; *Sci.*: MSc, 9; ScD, 1; *Vet. med.*: MVB, 3; PhD (all facs), 14. Total number of first degrees awarded, 488.

DIPLOMAS AWARDED (1960-61): HDipEd, 34; DipTest, 12; DGO, 14; DPA, 41; DipSocStud, 15; DipIrishStud, 2; DipEngStud, 11; DipGeog, 1.



# NATIONAL UNIVERSITY OF IRELAND

Founded 1908

*Postal Address:* 49 Merrion Square, Dublin Republic of Ireland

*Cables and Telegrams:* Naturunv, Dublin

*Telephone (Registrar):* Dublin 67246-7

CHANCELLOR—*S. DE VALÉRA*, BA BSc PhD LL.D.

VICE-CHANCELLOR (for biennium ending Dec. 31, 1962)—*M. THIRNEY*, MA DLitt, President, University College, Dublin

PRO-VICE-CHANCELLORS (for biennium ending Dec. 31, 1962)—*THE PRESIDENTS, UNIVERSITY COLLEGE OF CORK AND GALWAY AND ST. PATRICK'S COLLEGE, MAYNOOTH*

REGISTRAR—*S. WILMOT*, BA BComm LL.D.

## ADMINISTRATIVE AND OTHER STAFF

Chief Clerk: *J. P. Kane*, BComm Accountant.  
*J. Bouske*, MComm Other Statutory Clerks:  
*P. J. Costello*, MA BComm HDipEd DipPub  
Adm; *T. I. Kelly*, BComm, *M. J. Tracy*, BA  
BComm.

CONVOCACTION. Chairman: *D. Ó Modhúráin*,  
BA. Clerk: *T. A. O'Rourke*, BA BComm  
HDipEd.

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE, DUBLIN: *see p. 1434.*

UNIVERSITY COLLEGE, CORK: *see p. 1440.*

UNIVERSITY COLLEGE, GALWAY: *see p. 1445.*

## RECOGNIZED COLLEGE

ST. PATRICK'S COLLEGE, MAYNOOTH (tel.: Maynooth 261). President—*Rt. Rev. Mgr. G. Mitchell*, BA DD. Founded 1795 by the Irish parliament 'for the educn. only of persons professing the Roman Catholic religion'. Since 1817 it has been devoted exclusively to the educn. of the clergy. In 1845 the bd. of trustees were incorporated by statute, and in 1899 were invested by the Holy See with authority to confer degrees in philos. (BPh, LPh, DPh), theol. (BD, STL, DD), canon law (BCL, LCL, DCL). In 1910, under the provisions of the Irish Universities Act, 1908, recognition was granted to the coll. as a recog. coll. of the National Univ. of Ireland in the fcs. of arts (incl. philos.), sci. and Celtic studies.

Recognized teachers in approved degree courses.  
CHEM.—*Rev. M. T. Cusey*, MSc PhD. CLASSICS

—*Rev. T. Fisan*, MA; *Rev. W. Meany*, MA DD; *Rev. G. Watson*, MA STL. EDUC.—*Rev. P. Birch*, MA PhD HDipEd. ENGL.—*Rev. J. J. MacMackin*, MA; *Rev. P. Connolly*, MA Oxon. FRANCE.—*Rev. B. Devlin*, MA DD. GERMAN.—*...* HIST., MOD. (INCL. IRISH HIST.)  
—*Rev. T. Fee*, LicHistSc Lovain, MA. HIST.—*Rev. D. P. O'Flynn*, MA; *Rev. P. O'Sullivan*, MA; *Rev. P. Ó Fiannochtia*, MA. MATHS. & NATUL. PHYS.—*Rev. J. McConnell*, MA DSc; *Rev. J. McMahon*, MSc PhD MUSEC.—*Rev. C. H. O'Callaghan*, LMus Rouss, BA. PHILOS., MENTAL AND MORAL.—*Rev. J. D. Basteble*, MA PhD; *Rev. T. Crowley*, DPh Maynooth, MA; *Rev. M. O'Donnell*, MA; *Rev. J. Newman*, DPh Lovain, MA. PHYS., EXPER.—*Rev. T. P. G. McGeevy*, MSc. WILLES.—*Rev. P. Ó Fiannochtia*, MA.

## OTHER TEACHING STAFF

For teaching staffs of Constituent Colleges, *see pp. 1435-1447.*

Other Teaching Staff. Profs. of Catholic Theo-

logy.—*Rev. P. J. Hamell*, DD; *Rev. P. Cremin*, DD *JUD Pontif. Athen. Lateran.*; *Rev. J. O'Flynn*, DCL.

## GENERAL INFORMATION

Queen's Univ. in Ireland, founded in 1890 to link the Queen's Colls. of Belfast, Cork and Galway, was replaced in 1880 by a purely examining body, the Royal Univ. of Ireland. In 1908 the National Univ. of Ireland was established, with Univ. Coll., Dublin, and the colls. hitherto known as Queen's at Cork and Galway as constituent colls. The Queen's Univ. of Belfast (in effect Queen's Coll., Belfast, raised to univ. rank) was established in the same year, and the Royal Univ. was dissolved in 1909.

REPRESENTATIVES IN STRAHD EIBHANN, D. Ó Conalláin, BA H.DipEd; Prof. G. O'Brien, DLitt, Prof. P. M. Quinlan, MS PhD Cal. Tech., BE MSc

UNIVERSITY FACULTIES AND DEANS (Oct. 1, 1966–Sept. 30, 1967) Arts, Prof. J. Murphy, Celtic studies, Prof. T. S. O'Máille; comm., Prof. L. O'Buschella; dairy sci. (U.C. Cork only), Prof. C. Boyle; econ., Prof. J. D. O'Keefe; gen. agric. (U.C. Dublin only), Prof. J. Carroll; law, Prof. P. Gallagher, vet. (incl. dent.), Prof. S. Shea; pillar, Rev. Prof. J. D. Hogan; sci., Prof. C. O. Broocháin; vet. med. (U.C. Dublin only), Prof. P. A. McGeady.

Classes are held in all faculties (with the 3 exceptions indicated above), at each of the constituent colls., and in arts, philos. and social, Celtic studies and sci. at Maynooth.

ADMISSION The normal method of entry is by the metric exam. of the univ. Students must pass in 5 subjs. grouped as follows: (1) Irish (students born outside the 32 counties, or with home residence of parents outside Ireland for at least 3 yrs. prior to metric, may select another subj. of the metric programme in lieu of Irish), (2) English, (3) two of the following: maths, Latin, Greek, a modern continental lang., (4) a 5th subject of the metric programme. Latin or Greek is necessary for the facs. of arts, med., law, vet. med.; Latin is necessary for BSc (in pharm.); maths. is necessary for all facs. except arts (incl. music and soc. sci.) and law. Clear passes in subjs. in the Leaving Cert. exam. of the Irish Dept. of Educn. or in the Sr. Grammar Cert. of the N. Ireland Ministry of Educn. are accepted as equivalent to passes in corresp. subjs. at metric exam. Other outside exams. are accepted for admission only on sp. applicn. to the pres. of a constituent coll., provided the candidate has passed in the requisite 5 subjs. at equivalent standard. In the case of G.C.E. exams a 2 of 5 subjs. should have been taken at advanced level.

Students are advised to apply before April 1, especially for entry to fac. of med.

FIRST DEGREES. 3 yrs.—BA (pass, hon.), BSc gen., BComm, BCL, BMus (4 yrs. at U.C. Dublin), BScSoSc; 4 yrs.—BSc hon. (new regns), BAgrSc, BScDairying, BE; 5 yrs.—BArch, BDS, MVB; 6 yrs.—MB BCH BAO.

Classes are held in all facs. at each of the constituent colls. (except that classes in dairy sci. are held only at U.C. Cork; in gen. agric. and in vet.

med. only at U.C. Dublin) and in arts, philos. and social, Celtic studies and sci. at St. Patrick's Coll., Maynooth.

The hon. courses for BA, BSc are separate from the pass or general degree course. Normally 3 subjs. for BA pass, BSc gen. Normally 2 principal subjs. (with certain grouping restrictions) for BA hon., normally 1 major and 1 minor subj. (with certain grouping restrictions) for BSc hon. For hon. courses available, see under constituent colls., below.

HIGHER DEGREES, conferred on grads after approved postgrad. course of study under prescribed conditions in the univ. or in a constituent or recog. coll. LLB—3 terms after BCL, MA, MSc, MAgrSc, MScDairying, MEngSc, MPsychSc, MEconSc, MVM—at least 3 terms after primary degree, ME, MArch, MComm, MD, MCh, MAO, MDS—at least 9 terms after primary degree, grads of other univs. may be granted ad. student degree and allowed to proceed to certain master's degrees, e.g. MA, MSc, MEconSc; PhD—9 terms (reducible to 6), open to grads. of other univs. and other students of advanced standing; MD, DMus; DEconSc, DLitt, DLittCelt, LLD, DSc. The doctorate degrees (except PhD, MD, DMus) are obtainable only on published work.

Higher degrees (usually doctorates) may be conferred on distinguished persons as HONORARY DEGREES.

DIPLOMAS. 1 yr.—DipEd, HDipEd (postgrad), dipl. for teachers of deaf, DPH (for med. grads.), dipl. in child care (1 yr. after BScSoSc or Dip SocSc), 2 yrs.—DipComm, DipDairying, dipl. in Irish studies, dipl. in psychol., DipChemTech (U.C. Cork), DipLibTrg (1 yr. for grads.), DipBScSc (1 yr. for grads.), DipPubAdm (1 yr. for comm. grads.), DPM (for med. grads. with a yrs. experience in psychiatric hosp.), 3 yrs.—music teaching, physiotherapy, also DCH (for med. grads. with prescribed children's hosp. experience).

CERTIFICATES. 1 yr.—CertComm, st. teaching qualif. (music), sr. teaching qualif. (music); 2 yrs. or 1 yr. after sr. teaching qualif. (music)—cert. in organ music.

FREE MATRIC. £5 to £10. Combined exam. and degree, £13 to £13.5. Dip., £5 to £8. Med. dip., £11 to £15. For tuition fees, see under constituent colls., below.

ACADEMIC YEAR. Oct. to June: 3 terms of 10 to 12 wks. See also under constituent colls.

APPOINTMENTS BUREAU. Univ. Coll., Dublin; Univ. Coll., Cork; Univ. Coll., Galway.

GRADUATE ASSOCIATION. N.U.I. Club, University House, 136 Lower Grosvenor Place, London, S.W.1.

PUBLICATIONS. Calendar (July), 5s. (plus postage); Graduate and Seasonal Lists (triennially, 10s.) plus postage.

## THE YEAR 1961

HONORARY DEGREES. *LL.D.*—H.E. Cardinal G. P. Agagianian, papal legate to the Patrician Congress, Dublin, 1961; H.E. Most Rev. A. Robert, apostolic nuncio to Ireland; P. Mac-Aogáin, minister for external affairs in Irish govt; F. H. Boland, chairman, U.N.O.; in connection with the centenaries of Clonliffe, Blackrock and Terenure colls., Dublin: Very Rev. C. G. Canon McCarthy, pres., Clonliffe Coll., Dublin; Rev. A. J. Hampson, pres., Blackrock Coll., Dublin; Rev. V. J. Dinan, former pres., Blackrock Coll., Dublin, organizer of Blackrock centenary celebrations; Very Rev. T. P. Burke, pres., Terenure Coll., Dublin; in connection with return to Ireland of Lane pictures: T. P. Bodkin, distinguished art critic, F. A. Pakenham, Earl of Longford; B. W. Guinness, Lord Moyne. In connection with meeting in Dublin of Internat. Soc. of Surg. and Internat. Cardio-Vascular Soc.: *MC6*—Prof. R. Darius, Brussels; Dr. F. L. Gerbode, San Francisco; Prof. F. Lander, Berlin; Prof. L. C. Rogers, Cardiff; Prof. P. Valdones, Rome; Dr. F. Mastorelli, Barcelona; Dr. F. D. Moore, Boston. *DLitt*—C. L. Wrenn, distinguished Anglo-Saxon scholar. *D.EconSci*—R. C. Geary, statistician, former dir., Central

Stats. Office, Dublin. *DSc*—G. F. J. Temple, distinguished mathematician.

STUDENT NUMBERS. See under constituent colls.

DEGREES AWARDED (1960-61) *Agric*: BAgrSc, 81; MAgrSc, 5. *Archit.*: BArch, 14. *Arts*: BA, 393, MA, 47, BMus, 7; BSecSc, 11. *Comm*: BComm, 157, MComm, 2; MEconSc, 8. *Dairy sci*: BScDairyng, 3; MScDairyng, 2. *Dent*: BDS, 56. *Engn*: BE, 145, ME, 2; MEngSc, 2. *Law*: BCL, 17, LLB, 10. *Med.*: MB BCh BAO, 102, MD, 9; MCh, 4, MAO, 1. *Sci*: BSc, 259, MSc, 25. *Vet med*: MVB, 34. *PhD* (all facs.): 17. Total number of first degrees awarded, 1479.

DIPLOMAS AWARDED (1960-61) *DCII*, 36, *DipComm*, 11, *DipDairySc*, 18; *HDipEd*, 355, *DipEd*, 1, *DipLebTrg*, 7, *DipMus Teaching*, 7; *DPM*, 4, *DPH*, 9, *DipPubAdm*, 28; *DipSecSc*, 15, *DipChemTech*, 4, *Dipm Physiotherapy*, 20; teachers of deaf, 7, *DipNurse Tutors*, 4.

CERTIFICATES AWARDED (1960-61). *Jr music* qualif., 14; *sr. music* qualif., 6.

[Information compiled as at 5/9/62]

## UNIVERSITY COLLEGE, DUBLIN

Founded 1851 as Catholic Univ. of Ireland; chartered as constituent coll. of National Univ. of Ireland, 1908

Postal Address: Earlsfort Terrace, Dublin 2, Republic of Ireland

Telephone: 52116

PRESIDENT—M. TIERNEY, MA DLitt

REGISTRAR—Professor J. J. HOGAN, MA Blett Oxon.

SECRETARY AND BURSAR—J. P. MACHAIR, BA MComm

LIBRARIAN—ELLEN POWER, MA, FLA

## TEACHING STAFF

[† = Part-Time]

<b>Accountancy</b>		<b>Engineering, Civil</b>	
O'Brien, G. W., MA BComm	† Lectr.	Hogan, M. A., DIC, BE DSc PhD	Prof.
		Stephens, L. F., BSc ME	Coll. Lectr.
<b>Agriculture, see below</b>		<b>Engineering, Electrical</b>	
<b>Anatomy</b>		Mormsey, J. J., ME MA	Prof.
Coskley, J. B., MB BCh BAO MSc	Prof.	D'Alton, L. B., ME	Lectr.
Clewley, Catherine, MB BCh BAO	Coll. Lectr.	Byrne, J. V., BE	Coll. Lectr.
		McGennis, E. A., BE BSc	Coll. Lectr.
		Rung, G. (Electro-Technol.)	Coll. Lectr.
<b>Archaeology, Celtic</b>		<b>Engineering, Mechanical</b>	
De Valera, R., MA PhD	Prof.	Lenhy, P., ME PhD	Prof.
<b>Architecture</b>		Drechsler, F. S., ME	Coll. Lectr.
FitzGerald, D. P. J. M., BArch, FRIAI	Prof.	Tamoney, S., ME	Coll. Lectr.
McDermott, M., BArch	Lectr.	McCraith, J. R., BE	Coll. Lectr.
		Hanrahan, E. T., PhD	(Soil Mechanics) Coll. Lectr.
<b>Botany</b>		McCabe, V. J.	Coll. Lectr.
Clinch, Phyllis E. M., PhD DSc	Prof.	<b>English Literature</b>	
Brennan, Rev. M., BA PhD	Coll. Lectr.	Hogan, J. J., MA BLitt Oxon.	Prof.
<b>Chemistry</b>		McHugh, B. J., MA PhD	Lectr.
Philbin, Mrs. Eva M., PhD DSc	Prof.	Reynolds, Lorna T., MA PhD	Coll. Lectr.
Riley, F. T., BA MSc	(Org. C.) Lectr.	Donoghue, D., MA PhD	Coll. Lectr.
Gowan, J. E., PhD	(Org. C.) Coll. Lectr.	<b>English, Old and Middle</b>	
O'Brien, C., MSc	(Phys. C.) Coll. Lectr.	Dunning, Rev. T. P., MA PhD	Prof.
Silbermann, W., PhD	(on leave) (Phys. C.) Coll. Lectr.	Bliss, A. J., MA BLitt Oxon.	Coll. Lectr.
Rubalcava, H., PhD	(Phys. C.) Coll. Lectr.	<b>French and Romance Philology</b>	
Brown, D., PhD	(Inorg. & Theoret. C.) Coll. Lectr.	Roche, L. P., DSc L. Poitiers, MA	Prof.
Clarke, J. K., PhD	(Inorg. C.) Coll. Lectr.	Cognan, E. P., MA	Lectr.
<b>Classics</b>		<b>Geography</b>	
Tierney, J. J., MA	Prof.	Jones-Hughes, T., MA	Prof.
O'Meara, J. J., MA DPhil Oxon.	Prof.	<b>Geology</b>	
Nicol, D. M., MA PhD Camb.	Coll. Lectr.	Brindley, J. C., MSc, FGS	Prof.
<b>Dentistry</b>		<b>German</b>	
Dunkin, F. J., MB BCh BDS (D. Surg.) Prof.		Cunningham, Kathleen, MA PhD Bonn	Prof.
Gallivan, D., BDS (D. Mech.) Actg. Prof.		<b>History, Early Irish (including Mediaeval)</b>	
<b>Eastern Languages</b>		Ryan, Rev. J., MA DLitt	Prof.
Ryan, Rev. D., MA STL Pontif. Athen. Lateran., LSS Rome	† Prof.	<b>History, Mediaeval</b>	
<b>Economics, see Pol. Econ</b>			Prof.
<b>Education</b>		<b>History, Modern</b>	
Ó Catháin, Rev. S., MA PhD	Lectr.	Williams, T. D., MA	Prof.
<b>Engineering, Chemical</b>		Nowlan, K. B., PhD Camb., MA	Coll. Lectr.
O'Donnell, J. P., ME BSc	Prof.	Watt, J., MA PhD	Coll. Lectr.
Walsh, J. J., ME	Coll. Lectr.	<b>History, Modern Irish</b>	
		Edwards, R. D., MA DLitt	Prof.

- Irish, Early and Mediæval**  
 Shaw, Rev. F., MA Prof.
- Irish Language and Literature, Modern**  
 de Bhaldraiche, T., MA PhD DLitt Prof.  
 Delargy, J. H., DLitt *Wales*, LittD Dub., MA (Irish Polt-lore) Prof.  
 Ó Caiv, B., MA DLitt (Classical Irish) Prof.  
 Walsh, R. B., MA PhD Coll. Lectr.  
 Allen, T., MA Coll. Lectr.  
 Ó Baoisáin, B., MA Coll. Lectr.
- Italian and Spanish Languages and Literatures**  
 McBride, P., DrenL *Madrid*, MA Prof.  
 Crowe, Elizabeth, MA HDipEd (Spanish) Coll. Lectr.  
 Page, S., MA (Spanish) Coll. Lectr.
- Law**  
 Finlay, W. D., BA (L. of Contract Tort & Evidence) | Prof.  
 Ehler, S. Z., *DrJui Prague* (Internat. L. & Internat. Relns) †Prof.  
 Kenney, K. M., BA LLB (L. of Property & Equity) †Prof.  
 O'Hendon, R. J., BA (Const. L. and Criminal L. & Procedure) †Prof.  
 McGilligan, P., MA DEconSc (Roman L., Jurisp., Legal Hist.) | Actg. Prof.
- Mathematics**  
 Gonnley, P. G., MA PhD Prof.  
 Timoney, J. R., MA Lectr.  
 Timney, Mrs. Sheila C., MA PhD Lectr.  
 Franklin, D., MSc (Statistical M.) Lectr.  
 O'Brien, S., MSc Coll. Lectr.  
 Ingram, Rev. R., PhD Coll. Lectr.  
 Kennedy, M., MSc PhD Coll. Lectr.
- Medicine and Surgery, see Medicine, below**
- Microbiology, Industrial**  
 Küster, E., DrRerNat Götz. Prof.
- Music**  
 Hughes, A., DMus Prof.
- Paleography and Late Latin**  
 Bieler, L., DPhil *Vienna* Prof.
- Pharmacy**  
 Timoney, R. F., PhD †Prof.
- Philosophy**  
 Hogan, Rev. J. D., MA DD PhD (Metaphysics) Prof.  
 O'Doherty, Rev. E. F., MA BD PhD Camb. (Logic & Psychol.) Prof.
- Maths, Rev. C. J., MA BD DPhil Oxon. (Ethics & Pol.) Prof.**  
 Coowe, Rev. M. B., MA PhD *Louvain* Coll. Lectr.  
 Connell, Rev. D., BD MA PhD Coll. Lectr.  
 Whyte, J. H., MA BLitt *Oxon* (Ethics & Pol.) Coll. Lectr.
- Physics, Experimental**  
 Nevins, T. B., DSc Prof.  
 Nolan, P. J., DSc PhD (Geophys.) Prof.  
 Carroll, P. K., MSc PhD (on leave) Coll. Lectr.  
 Poytes, N. A., BSc PhD Coll. Lectr.  
 Anderson, F., MSc Coll. Lectr.
- Physics, Mathematical**  
 Keating, G., MSc Prof.  
 Judge, D., MA MSc Coll. Lectr.
- Physiology and Histology**  
 McCarthy, E. F., MSc MD BCh BAO Prof.  
 Daly, S. D., MB BSc Coll. Lectr.  
 Walsh, K. J., MB BCh BAO Coll. Lectr.
- Political Economy and National Economics of Ireland**  
 Meenan, J. F., MA Prof.  
 O'Donovan, J., MA BLitt DEconSc Lectr.  
 Lynch, P., MA
- Spanish, see Italian and Spanish Langs. and Lits.**
- Veterinary Medicine, see below.**
- Welsh**  
 .... Prof.
- Zoology**  
 Humphries, Carmel, DSc PhD Prof.
- AGRICULTURE**
- Agricultural Botany and Bacteriology**  
 Curran, P. L., MS MAgrSc Coll. Lectr.
- Agricultural Chemistry**  
 O'Sullivan, G. P., MSc Lectr.  
 Crowley, D., MSc Coll. Lectr.
- Agricultural Engineering**  
 O'Callaghan, J. R., BE MSc Coll. Lectr.
- Agricultural Zoology**  
 Carroll, J., DSc BAgrSc Prof.  
 McMahon, E., BAgrSc MSc Lectr.
- Animal Husbandry**  
 McAloose, D. M., BSc BAgrSc MA PhD Coll. Lectr.
- Farm Management**  
 Ruane, J. B., MAgrSc PhD Prof.

<b>Forestry</b>		<b>Radiology</b>	
Clear, T., BAgrSc	Prof.	Gerraghty, J. A., MD	†Prof.
<b>Horticulture</b>		<b>Social and Preventive Medicine</b>	
Clarke, E., BAgrSc PhD	Prof.	Murphy, T., MB BCH BAO BSc DPH	Prof.
<b>Plant Breeding</b>		Gallagher, J., MD DPH DCh	Coll. Lectr.
Carroll, P. T., BAgrSc MSc	Coll. Lectr.	<b>Surgery</b>	
<b>Plant Pathology</b>		Fitzgerald, P., MD MCh MSc	Sr. Prof.
Loughnane, J. B., DSc BAgrSc	Lectr.	O'Malley, E., MCh, FRCSI	Prof.
Kavimagh, T., MAgrSc BScSc PhD	Coll. Lectr.	<b>Therapeutics</b>	
<b>Soil Science</b>		FitzGerald, O., MD MSc	Prof.
Brickley, W. D., MAgrSc	Coll. Lectr.		

**MEDICINE**

(for subs. of first a yrs — Anat., etc., see above).

<b>Biochemistry and Pharmacology</b>	
Conway, E. J., DSc MD BCH BAO, FRs	Prof.
Hingerty, D. J., MSc PhD	Coll. Lectr.
Harrington, M. G., MSc PhD	Coll. Lectr.

<b>Forensic Medicine</b>	
Hickey, M. D., MD MSc, FRCPi	Prof.

<b>Medicine</b>	
O'Donovan, D. K., PhD MSc, MD MSc	Sr. Prof.
Counihan, T. B., MD, MRCP	Prof.
Muldowney, F. P., MD BCH BAO	Coll. Lectr.

<b>Microbiology as applied to Medicine</b>	
Meenan, P. N., MD DCP	Prof.

<b>Midwifery and Gynaecology</b>	
De Valera, E., MD MAO, FRCPi	†Prof.

<b>Ophthalmology</b>	
Lavery, F. J., MD MCh, DOMS	†Prof.

<b>Oto-Rhino-Laryngology</b>	
O'Doherty, E., MB MCh BAO	†Prof.

<b>Pædiatrics</b>	
Saunders, C. P., BSc MB BCh BAO	†Prof.

<b>Pathology</b>	
Harman, J. W., MD MSc	Prof.

<b>Pharmacology</b>	
Cannon, P. J., MB BCh BAO MSc	Prof.
Martindale, K., MB ChB Lio	Coll. Lectr.

<b>Psychiatry</b>	
Dunne, J., MD DPM	Prof.

**VETERINARY MEDICINE**

<b>Veterinary Anatomy</b>	
Campbell, J. J., PhD MSc	Prof.
Colley, L., PhD	Lectr.
Rhatgan, P., MVB	Coll. Lectr.
Conway, D., MVB	Coll. Lectr.

<b>Veterinary Hygiene and Animal Husbandry</b>	
O'Connor, J.	Prof.
O'Donovan, S., MVB	Lectr.

<b>Veterinary Medicine, Pharmacology and Food Hygiene</b>	
Kelly, W. R., MVM	Prof.
McElean, B. A., MVM	Lectr.
Hannon, J., MS Jena, MVB	Lectr.
Twomey, T., MVB	Coll. Lectr.
Halpin, F. P., DTVM	Coll. Lectr.

<b>Veterinary Pathology and Bacteriology</b>	
Mullaney, P. E., MVM	Prof.
Whitty, B. T., MSc	Lectr.
Hirsch, E. A.	Lectr.
Farrelly, B. T., MSc D Vet Med	Lectr.
Murphy, E. C.	Coll. Lectr.
O'Neill, T.	Coll. Lectr.
Mullaney, Reims	Coll. Lectr.

<b>Veterinary Physiology and Biochemistry</b>	
McAlear, W. B., PhD DVM	Prof.
Glasier, D. B., MS Can. MVB PhD	Lectr.
Power, J. H., PhD	Coll. Lectr.

<b>Veterinary Surgery and Obstetrics</b>	
McGeady, P. A., M Vet Sc	Prof.
Kesley, J. K., MVB	Lectr.
Hanly, S., MSc	Lectr.
Bourke, P., MVB	Coll. Lectr.
O'Connor, J. P., MVB	Coll. Lectr.

Staff of Assts. and Demos. in all Depts.

## ADMINISTRATIVE AND OTHER STAFF

Deans of Residence: Rev P. Tachy, BA; Rev D. O'Neill, BA; Rev J. Dunn, BA; Rev A. Boland, BA. Supt. of Women Students: Nora Greene, BSc HDipEd. Registrar for Medical School: Eileen McGilligan, BSc. Warden of Newman House: W. Leen, BA. Director, Students' Health Bureau: M. Moriarty, MSc MD. Officers of Residence: Rev D. P. Kennedy, University Hall; Rev. Deen M. Dillon, Balmagowan House; Rev Brother Gregory, De

La Salle Hall; D. Cummins, MB BCH BAO, Nallamore Univ. Residence; Mrs Mary Murphy, BA HDipEd; Mother Mary of Lourdes, Loreto Hall; Mother Mary Imelda Brophy, St. Mary's Dominican Hall; Nora Buiko, MA, Directress, Northbrook Residence; Rev Canon J. Armstrong; Rev G. Ferguson, BA; Rev S. G. L. Young, BA, Magister O'Leary, BComm HDipEd, Directress, Glenard Residence. Sec., Appts. Bureau: B. Farrell, MA.

## GENERAL INFORMATION

The coll. had its origin in the Catholic Univ. of Ireland, founded in 1851. From 1851 to 1859 its rector was Dr. John Henry Newman. In 1854 its facs. of theol., philos., letters and sci. began their work and in 1855 the fac. of med. was formally opened in Cecilia St., where it continued to operate until 1932. The foundation of the Royal Univ. in 1879 led to a change of title (1883) by which what had originally been St. Patrick's House in the Catholic Univ. became the seat of Univ. Coll., Dublin. From 1883 until the passing of the Universities Act, 1908, the coll. was administered by the Jesuit Fathers. Under that act and by royal charter of Dec. 2, 1908, it was re-established as a constituent coll. of the National Univ. of Ireland.

By the University Education (Agriculture and Dairy Science) Act, 1906, the Royal Coll. of Sci. and the Albert Agric. Coll. were transferred to Univ. Coll., Dublin, which was empowered to continue the functions formerly fulfilled by these instns.

**LOCATION.** The main coll. centre is at Earlsfort Terrace (15 acres). Eight and most of the sci. depts are located at Upper Merrion St., agric. at the coll. farm, Glasnevin (about 300 acres). The future site of the coll. is at Belfield, Sillorgess Rd. (280 acres), 2½ miles from Earlsfort Ter. Here a number of res. depts., chiefly med., are already in operation and work is in progress on the sci. block. Agric. is shortly to be transferred to Lyons Farm (1300 acres), Co. Kildare, 15 miles from Dublin.

**HOSPITALS.** 3 affiliated (gen. med. & surg.), 8 recog. for clin. instrum., 2 fever; 2 children's; 3 midwifery; 1 ophthalmol. & oto-rhino-laryngol.; 1 mental diseases.

**ADMISSION.** Students not born in Ireland must apply to the pres. of the coll. for admission and (unless they have passed the matric. exam. of the N.U.I. or the Leaving Cert. of the Irish Dep't. of Educ. or the Sr. Cert. of the N. Ireland Dept. of Educ.) for exemption from the matric. exam. Exemption will be granted only on production of evidence that candidates have passed an equivalent exam. in the requisite 5 subjects.

**FIRST DEGREE (of N.U.I.).** 3 yrs.—BA gen.

(3 subs.), BA hons. (normally 2 subs.), BScSe, BComm, BCL, BSc gen. (3 subs.), 4 yrs.—BMus, BSc hons., BE (agrie., chem., civi., electr., mech.), BAgrSci., 5 yrs.—BDS, BArch, MVB, 6 yrs.—MB BCH BAO.

BA gen.: 1st yr. 4 subs., followed by 2-yr. course in 3 subs., 1 of which must be from those marked with \*. archaeol., early & mediev. Irish hist., pol. econ., Engl., ethics & pol., French\*, geog., German, Greek, hist., Ital., Lat., logic & psychol., math. phys., math., metaphys., mod. Irish\*, music, Spanish, Welsh. May be taken by evening attendance.

BA hons.: 1st yr. 4 subs. (compulsory Latin & compulsory hons. courses in 2 subs. determined by group in which proceeding), and 2nd & 3rd yrs. hons. courses in one of following hons. schools: anc. classics, maths.; philos., Engl. lang. & lit., mod. langs.; Celtic studies; romatic langs.; hist., pol. econ.; Greek & Hebrew, Latin & a mod. lang., archaeol., early Irish hist., music & a mod. lang.; Irish lang. & lit., geog.

BSc gen.: 1st yr. 4 subs. (determined by group in which proceeding), followed by 2 yrs. gen. courses in one of following groups: maths., math. phys., exper. phys., maths., exper. phys., chem., maths., exper. phys., geol., maths., chem., bot., maths., chem., geol., maths., chem., biochem.; maths., bot., biochem.; exper. phys., chem., biochem.; chem., bot., biochem.; chem., zool., biochem. & bot., zool., geol.; bot., zool., biochem.

BSc hons.: 1st & 2nd yrs. as above, followed by 3rd yr. 1 major & 2 minor subs., and 4th yr. 1 major subj.

**HIGHER DEGREES (of N.U.I.).** 1 yr. min.—MA, MEdSci, LLB, MSc, MagSci, MVM, MEngSci; 3 yrs. min.—PhD, MComm, MD, MCh, MAO, MDS, ME, March, MPychSci; 5 yrs. min.—DLitt, DLittCelt, DMus, DEconSci, LL.D., DSc.

**DIPLOMAS (of N.U.I.).** 2 yrs., or 1 yr. post-grad.—DipSciSe, DipLibTrg., DipPubAdm., 1 yr.—educn.; 2 yrs.—nurse tutors; 3 yrs.—physiotherapy. *Postgrad.*: 1 yr.—HDipEd, teachers of the deaf, child care, DPH, DPM, DCH; 2 yrs.—psychol.

**FACULTIES AND DEANS** *Arts*, Prof. J. J. Tierney (classics); *Celtic studies*, Rev. Prof. J. Ryan (early Irish hist.), *Comm.*, Prof. J. P. Meenan (pol. econ. & natnl. econ. of Ireland); *Engin. & Archit.*, Prof. M. A. Hogan (civil engin.); *Gen. Agric.*, Prof. J. Carroll (agric. zool.); *Law*, Prof. W. D. Finlay; *Med.*, Prof. T. Murphy (soc. & prev. med.), *Philos.*, Rev. Prof. J. D. Horgan (metaphys.), *Sci.*, ...; *Soc. Med.*, Prof. P. A. McGeady (vet. surg.).

**LIBRARIES** 202,123 vols.

**LABORATORIES** (in main coll. bldgs. at Balfour Terrace, Upper Merrion St. and Glasnevin, and res. labs. at Ardmore, Merville, Belgrove, Thornfield, and Woodview on Shilleog Rd.). *Agric. sci.*, *engin.*, *med.*, *sci.*

**FEES** (50 per cent. extra for overseas students, incl. U.K. students) for tuition, incl. coll. fees, annual, for primary degree courses: *arts*, *comm.*, *law*, *sci.*, £50; *sci.*, *engin.*, *archit.*, *agric.*—£70; *med.* (incl. hosp.), whole period—£505 approx.; *dent.* (incl. hosp.), whole period—£546; *vet. med.*, whole period—£360.

**ACADEMIC YEAR.** Term dates, 1962-63 (except

for facs. of med. & vet. med.) Michaelmas, Oct. 9-Dec. 14. Hilary, Jan. 8-March 22; Trinity, April 17-May 24. For med., Trinity term is April 17-June 14.

**LANGUAGE OF INSTRUCTION** English.

**RESIDENCE.** Hostels—*Men*, University Hall, Hatch St. (accommodates for 82 students), Bainsgown House, Palmerston Pl. (40); De La Salle Hall, Ely Pl. (50); Nullican University Residence, Milltown (45). *Women*, Loreto Hall, 77 St. Stephen's Green (70); St. Mary's Dominican Hall, 49, St. Stephen's Green (80), Glenard Residence, Roebuck Rd., Clonsilla, Dublin, 14 (50), Northbrook Residence, 27 Northbrook Rd. (50). Students are subject to supervision by officers of residence (See also 'Admin and Other Staff', above).

**APPOINTMENTS BUREAU.**

**STUDENTS' HEALTH BUREAU** is concerned with all aspects of students' health. Its assistance is freely available during office hours to any student who is anxious about his or her health.

**PUBLICATIONS.** *Calendar*, Nov., 1962.

## THE YEAR 1961

**RETIREMENTS** Prof. J. Doyle (bot.), Dr. P. H. Gallagher (soil sci.), Prof. G. O'Brien (pol. econ. & natnl. econ. of Ireland).

**DEATHS** Prof. M. F. Egan (pure maths.), Prof. C. O. Cadhagh (mod. Irish lang. & lit.).

### Statistics

#### STUDENT NUMBERS, 1961-62

(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	3894	276
Women	1507	97
Total	5401	373

**Distribution by Faculties.** *Agric.*, 274; *arts*, 2150; *comm.*, 728; *engin. & archit.*, 409; *law*, 141; *med.*, 975; *sci.*, 736; *vet. med.*, 271. Total: 5774.

Included in the figures above are—

Postgraduate students, 376.

\* 'Part-Time' applies to students taking dipl. and cert. courses, occasl. students and students attending law courses. The term does not apply to students attending avg. degree courses (who are included among full-time students).

New admissions, 1962

Students from other countries, 467. (Countries from which largest numbers came: United Kingdom, 77, U.S.A., 61; Nigeria, 50; Malaysia, 49, Trinidad, 44).

**DEGREES AWARDED (by N.U.I.) (1960-61).**

*Agric.*: BAgriSc, 74; *MAgrSc*, 6. *Archit.*: BArch, 14. *Arts*: BA, 287, MA, 38; BScSc, 10; BMus, 5; DMus, 1. *Comm.*: BComm, 114; MEconSc, 5. *Engin.*: BE, 99, ME, 1. *Law*: BCL, 26; LLB, 8. *Med.*: MB BCh BAO, 69, BDS, 39; MCh, 3; MAO, 1; MD, 7. *Sci.*: BSc, 94; MSc, 9. *Vet. med.*: MVB, 14. PhD (all facs.): 7. Total number of first degrees awarded, 865.

**DIPLOMAS AWARDED (by N.U.I.) (1960-61)**

HDipEd, 171; DipLabTrg, 7; DipMusTech, 7; DipScSc, 15; DipPubAdm, 28; DCH, 16; DPH, 9; DPM, 41; DipPhysiotherapy, 20; DipNurseTutors, 4; teachers of deaf, 7.



[Information compiled as at 17/9/62]

## UNIVERSITY COLLEGE, CORK

Founded 1845 as Queen's College, Cork; chartered as constituent coll. of  
National Univ. of Ireland, 1908

Postal Address: Cork, Republic of Ireland

Cables and Telegrams: University College, Cork, Ireland

Telephones: (Registrar), Cork 26275, (Secretary), Cork 20711; (all Depts.), Cork 21371

PRESIDENT—H. ST. J. ATKINS, MSc Hon. DSc

REGISTRAR—Professor T. Ó CIARDHA, PhD Lond., MA

SECRETARY AND BURSAR—J. HURLEY, MA BComm

LIBRARIAN—D. O'KEEFE, MA

## TEACHING STAFF

(†=Part-Time)

<b>Accounting and Business Administration</b>		<b>Chemical Spectroscopy, see Chem</b>	
Clifford, T. J., MComm	†Lectr	<b>Chemistry</b>	
Daly, H. J., BComm, FCA	†Asst.	Scott, F. L., PhD DSc, FRIC	Prof.
<b>Agriculture, see Dairy Science</b>		Teagan, J. P., PhD Camb, MSc	
<b>Anatomy, see also under Dentistry</b>		(C. Spectroscopy) †Prof., (Phys. C)	Lectr.
MacConaill, M. A., MB BCh BAO DSc Belf.	Prof.	Ó Cinnéide, R., MSc	Lectr.
Fitzgerald, M. J. T., MB BCh BAO PhD	Lectr.	O'Donovan, D. G., MSc PhD	Asst.
Hamilton, W. D., BSc MD MCh BAO	†Asst.	<b>Concrete Technology, see Engin., Civil</b>	
Law, Mrs. Mary E., MSc (Histol.)	Asst.	<b>Dairy Science, see below</b>	
Trinick, E., MB BCh BAO Belf.,		<b>Dentistry, see below</b>	
DTM&H Lond	Asst.	<b>Economics</b>	
Gurr, E., FRIC	†Res. Asst.	Busteed, J., MComm	Prof.
<b>Ancient Classics</b>		Larkin, Rev. W. P., PhD Lond., MA	
Fogarty, J. P., MA PhD HDipEd	Prof.	D'EconSc (E Theory)	†Prof.
Richmond, J. A., BA PhD Lond.	Lectr.	O'Mahony, D. P., MA PhD BL	Lectr.
Gaynor, C. P., MA	Asst.	<b>Education</b>	
<b>Archæology</b>		Duggan, Lucy, MA PhD HDipEd	Prof.
O'Kelly, M. J., MA	Prof.	O'Callaghan, Nora M., MA HDipEd	Asst.
<b>Biochemistry</b>		.....	†Lectr.
Brody, T. G., PhD Munich, MSc	Prof.	<b>Engineering, Civil</b>	
Tully, E. R., MSc PhD	Asst.	Deege, J. C. L., MSc Iowa, BSc ME	Prof.
<b>Botany</b>		Coffey, P., ME	Assoc. Prof.
Roberts, O. M., MSc PhD	Prof.	Dillon, B. C., ME PhD	
Mockler, Mrs. Mary J., MSc	Lectr.	(Concrete Technol.) †Prof., (Civil E.)	
<b>Celtic Languages and Philology, see also</b>		Lectr.	
Irish Lang. and Lit.		O'Halloran, J. F., MSc Belf., BE	Lectr.
Coombsnach, S., MA PhD	Prof.	Langford, A. N., BE	Res. Asst.
		<b>Engineering, Electrical</b>	
		Dillon, C. T. G., ME	Prof.
		McGrath, F. A., BE	†Lectr.

Sexton, M. C., PhD <i>Liv.</i> , MSc	Lectr.	<b>Mathematics</b>	
Canning, T. I., BSc <i>Belf.</i> , PhD <i>Liv.</i>	Lectr.	Kennedy, P. B., PhD DSc	Prof.
Murphy, J. M. D., BE	Asst.	Barry, P. D., PhD <i>Lond.</i> , MSc	Lectr.
		O'Shea, Siobhán, MSc	Asst.
<b>Engineering, Mechanical</b>			
Pollock, H. P., BE	Lectr.	<b>Medicine, see below</b>	
<b>English</b>		<b>Music</b>	
MacCarthy, Bridget G., MA PhD		Fleischmann, A. G., MA BMus	Prof.
HDipEd	Prof.	Nelson, S., BA <i>Belf.</i>	†Actg Lectr.
Breastnach, R. P., MA PhD HDipEd	Lectr.		
Lucy, J. F., MA	Asst.	<b>Nuclear and Theoretical Physics, see</b>	
		<b>Phys., Exper.</b>	
<b>French, see Romance Langs.</b>			
<b>Geography</b>		<b>Pathology, see also Dent. Pathol., below</b>	
O'Connell, C. S., DipGeog <i>Lond.</i> , MA		O'Donovan, W. J., MB BCH BAO BSc	
BComm HDipEd	Prof.	DPH	Prof.
Fahy, E. M., MA	Asst.	Cookley, R. D., MD BCH BAO	Lectr.
		Daly, R. A., MSc Dub., LM (Clin. P.)	†Lectr.
<b>Geology</b>		Hayes, J., MD BCH BAO, MRCP	†Clin. Asst.
Nevill, W. E., BA PhD <i>Dub.</i>	Lectr.	O'Neill, R. B., MB BCH BAO	†Clin. Asst.
		<b>Pharmacy, see Medicine, below</b>	
<b>German</b>		<b>Philosophy</b>	
Boyle, Mrs. Mary, MA	Prof.		
		Good, Rev. J., DPh <i>Leipzig</i> , DD <i>May-</i>	Prof.
<b>History, see also Irish Hist.</b>		<i>north</i> , BA (Gen. P.)	Lectr.
Hogan, J., BA DLitt	Prof., Hd. of Dept.	Cashell, Rev. M. V., PhD <i>Leuven</i> , MA	Asst.
	Lectr.	O'Sullivan, Rev. J. J., DD <i>Maynouth</i> ,	†Asst.
Flanagan, Rev. J. G., MA LLB	†Lectr.	BSc HDipEd (Med. Ethics)	
(Palaeog. & Eccles. H.)	Asst.		
Roche, K. F., MA	Asst.	<b>Physics, Experimental</b>	
Murphy, J. A., MA HDipEd	Asst.	McHenry, J. J., MA Camb., DSc, FIP	Prof.
		Fahy, E. F., PhD <i>Chic.</i> , MSc	
<b>Hygiene and Public Health, see Medicine</b>		(Nucleon. & Theoret. P.)	†Prof., (Exper. P.) Lectr.
<b>Irish History</b>			
Pender, S., MA	Prof.	.....	Lectr.
Gwynn, D. R., BA DLitt		O'Sullivan, Margaret M., MSc HDipEd	Asst.
(Mod. Irish H.)	†Res. Prof.		
<b>Irish Language and Literature</b>		<b>Physiology, see also under Dentistry, below</b>	
Breastnach, R. A., MA	Prof.	Sheehan, J. D., MD BCH BAO BSc,	Prof.
O'Cuilleáin, C., MA PhD HDipEd		MRCP	Lectr.
(Hist. of Mod. Irish Lit.)	Prof.	Hall, W. J., MB BCH BAO BSc	Asst.
O'Tuama, S., MA PhD	Lectr.		
<b>Italian, see Romance Langs.</b>		<b>Psychology</b>	
<b>Law</b>		Dempsey, Rev. P., PhD <i>Mistr.</i> , MA,	Lectr.
Ryan, E. F., MA Camb., BL		FBPS	
(Common L., Real Prop. & Equity)	†Prof.	<b>Public Administration</b>	
Murphy, B. J., BA LLB		Haslam, R. B., BComm	†Lectr.
(Jurisp., Roman L. & Pers. Prop.)	†Prof.		
Gleson, E., MA BL	†Asst.	<b>Romance Languages</b>	
		Byrne-Costigan, Mrs. Ethna, DèL <i>Paris</i> , MA	Prof.
<b>Mathematical Physics</b>		O'Flaherty, Kathleen M. J., MA PhD	
Quinlan, P. M., MS PhD <i>Cal. Tech.</i> , BE		(French)	Lectr.
MSc	Prof.	Servais, Yvonne, LèL <i>Paris</i> , MA PhD	
Hart, V. G. M., MSc PhD	Lectr.	(French)	Asst.
.....	Lectr.	Calh, P., LèL <i>Milaz</i>	(Italian) Asst.

<b>Sociology</b>		<b>Dental Physiology, see also Physiol., above</b>	
O'Leary, Rev J., MA	Lectr.	Connois, Mary, BDS, FDSRCS	†Asst.
<b>Spanish</b>		<b>Dental Prosthetics</b>	
Healy, J. G., MA PhD	Prof.	...	Prof.
Ware, N. J., MA	Asst.	Fenlon, Miss. Margaret, BDS	Asst.
<b>Statistics</b>		<b>Dental Radiology</b>	
Ó Cardha, T., PhD Lond., MA	Prof.	Barrett, A. V., BDS	†Asst.
<b>Theology</b>		<b>Dental Surgery</b>	
Good, Rev J., DPh <i>Koulovach</i> , DD <i>Mayneath</i> , BA	†Prof.	Butler, N. P., MDS, FDSRCS	†Prof.
<b>Zoology</b>		Collins, B., BDS (Operative D.S.)	†Lectr.
O'Rourke, F. J., MB BCH BAO MSc PhD	Prof.	<b>Oral Medicine</b>	
Walton, G. A., MB ChB MSc <i>Bent.</i>	Lectr.	Russell, J. G., MB BCH BAO BDS, FDSRCS	†Asst.
.....	Asst.		
<b>DAIRY SCIENCE</b>		<b>Orthodontics</b>	
<b>Agriculture</b>		Dockrell, R. B., MA MB BCH BAO MDentSc <i>Dub.</i>	†Lectr.
Boyle, C., MA <i>Wils.</i> , DIC, PhD Lond.	Prof. Lectr.	<b>Periodontology</b>	
<b>Dairy Accounting and Dairy Economics</b>		Russell, J. G., MB BCH BAO BDS, FDSRCS	†Lectr.
Murphy, M., MA BComm	Prof. Lectr.		
.....		<b>MEDICINE</b>	
<b>Dairy and Food Microbiology</b>		(for Anat., Biochem., Pathol., Physiol., see above)	
O'Mullane, T., MScDairying	Prof. Lectr.	<b>Hygiene and Public Health</b>	
.....		McCarthy, G. P., MB BCH BAO	†Actg. Prof.
<b>Dairy Chemistry</b>		<b>Medical Ethics, see Phalca., above</b>	
Pyne, G. T., MSc PhD, FRIC	Prof. Lectr.	<b>Medical Jurisprudence</b>	
MacSweeney, D. T., MSc	Asst.	Raodon, M. J., MB BCH MAO, FRCSI	†Lectr.
.....		<b>Medicine</b>	
<b>Dairy Engineering</b>		O'Sullivan, D. J., MD <i>Birm.</i> , MB BCH BAO	Prof.
McGrath, F. A., BE	Prof. Lectr.	Whelton, A., BA MD BCH BAO, FRCP	†Lectr.
Synott, E. C., BE	Asst.	Dillon, V. J., MD BCH BAO BSc, MRCP	Lectr.
<b>Dairy Technology</b>		Murphy, J., MD BCH BAO DPH	Lectr.
O'Shea, M. J., BA MScDairying PhD	Prof. Lectr.	Coendun, J. P., MB BCH BAO DPH	†Asst.
.....	Lectr.	Pitzpatrick, P. F., MB BCH BAO BSc DPH	Asst.
Foley, J., MScDairying	Asst.	McMahon, M. F., MD BCH BAO	†Asst.
<b>DENTISTRY</b>		Bennett, M., MD BCH BAO	†Asst.
<b>Dental Anaesthesia</b>		Buckley, D. B., MD BCH BAO, MRCP	(Dermatol.)  Asst.
O'Sullivan, J. F., MB BCH BAO DPH	†Asst.	<b>Mental Diseases</b>	
<b>Dental Anatomy, see also Anat., above</b>		McCarthy, R. A., MD BCH BAO	†Actg. Lectr.
McHale, J. A., BDS	†Asst.	<b>Obstetrics and Gynaecology</b>	
<b>Dental Materials and Mechanics</b>		Kearney, W., MD BCH MAO, FRCOG	†Prof.
Power, J. J., BDS	†Lectr.	Kearney, J. B., MD BCH MAO LM	†Lectr.
<b>Dental Pathology, see also Pathol., above</b>		Sutton, R. C., MA MB BCH BAO LM <i>Dub.</i>	†Lectr.
Gamble, R. G., BDS	†Lectr.	FRCP	†Lectr.

O'Donoghue, R., MB BCH MAO †Clin. Tutor  
O'Connor, T. C., MB BCH MAO †Clin. Tutor

**Ophthalmology**

O'Hara-Cussen, V., DO Ocul., MB BCH BAO †Prof.

**Pediatrics**

Barry, R. G., DCH Lond., MD BCH BAO, MRCP †Lectr.  
† Clin. Tutor

**Pharmacology**

O'Mahony, D. P. J., MB BCH BAO BSc Actg Lectr

**Pharmacy**

McCarthy, D. F., MB BCH MAO †Asst.

**Surgery**

Kelly, P., BSc MD MCh BAO, FRCS †Prof.  
Kelly, J., MD MCh BAO, FRCS †Lectr.  
Kelly, J., MB BCH BAO, FRCS †Lectr.  
Donovan, E., MD MCh BAO  
O'Connell, St. J. G., MB BCH BAO, FRCS (Orthopaedic S) †Lectr.  
..... †Asst.

**Therapeutics**

Loughnan, O. T. D., MD BCH BAO, MRCP †Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

ASSISTANT SECRETARY: D. L. Whyte, BA BComm.

APPOINTMENTS BUREAU. Sec.: Mary Manning, BComm.

OFFICES OF RESIDENCE. Catholic—Dean of Residence: Rev. J. J. O'Sullivan, DD Maynooth, BSc HDipEd. Asst. Officers of Residence: Mrs. Kate Madden, BComm HDipEd., Rev. Mother of La Retraite Hostel; Prof. C. O. Cullisand, MA PhD HDipEd., Rev. J. O'Leary, MA. Church of Ireland—Dean: Rev. C. B. Canon Roberts, MA Dub. Asst. Officer: Mrs. Sylvia A.

Roberts Presbyterian—Dean: Rev. T. Binkley, MA BD Belf., ThM Trin. Asst. Officer: Mrs. Elizabeth M. Farrington, MA HDipEd. Methodist—Dean: Rev. F. E. Hill, BA Belf. Warden, Honan Hostel—Prof. C. O. Cullisand, MA PhD HDipEd.

STUDENTS' HEALTH SERVICE. Sec.: Mrs. Maev Morrough, MB BCH BAO DPH

CORK UNIVERSITY PRESS. Manager, Prof. D. R. Gwynn, BA DLitt

ADULT EDUCATION DEPT. Dir. of Studies: Rev. J. O'Leary, MA.

**GENERAL INFORMATION**

Queen's Coll., Cork, was founded in 1845 and opened to students in 1849. A new charter was granted to the coll. on Dec. 2, 1908, in which its name was changed to Univ. Coll., Cork. On the same date the coll. became a constituent coll. of the newly incorporated National Univ. of Ireland.

CONSTITUTION. The main authorities of the coll. are governing body, academic council (consisting of all profs. and facs (each consisting of profs. and lectrs. in specified subjs.)). Faculties report to academic council on academic matters, incl. appts. The academic council similarly reports to governing body, and to senate of N.U.I., Dublin. The governing body is responsible for general admin. of coll. and reports to N.U.I. on appts., etc. Courses, exams and appts. are under control of the senate of N.U.I.

INCOME. Total for yr. ended June 30, 1962: £134,000 (govt. grants, 64.8 per cent.; fees, 24.0 per cent.; coll. funds, 7.4 per cent.).

FACULTIES AND DEANS (academic yr. 1962-63): Arts, Prof. S. Pender (Irish hist.); Celtic studies, Prof. S. Chomhmadh (Celtic lang. & philol.); comm., Prof. J. Busteed (econ.); dairy sci., Prof. C. Boyle (agric.); engin., P. Coffey (civil engin.); law, Prof. E. F. Ryan, med., . . . , sci., Prof. J. J. McHenry (exper. phys.)

UNIVERSITY COLLEGE PRECINCT. The coll. occupies a pleasant site on the western side of Cork city. The site is, however, restricted in area. Except for 2 small plots (totalling about 3 acres) it is bounded on all 4 sides by public rds; the surrounding area is fully built up on 3 sides, and expansion prospects in the remaining direction are limited in extent. The original bldg., dating from 1845, houses the admin., the central library, and the facs. of arts, comm., law and med. Civil engin. is also housed in these older bldgs. at present, but a bldg. programme, which is being planned for the next 5 to 10 yrs., will provide new accomm. therefor. The proposed bldg. programme will double the existing accomm. in the coll., providing much-needed addnl. space for all depts.

LIBRARIES (incl. dept. libraries). Approx. 470,000 vols.

LABORATORIES: Anat., biochem., bot., chem., civil engin., dairy chem., dairy engin., dairy microbiol., dairy technol., electr. engin., geol., pathol., pharmacol., phys., physiol., statistics, zool. Exper. creamery. FIELD STATION (zool.) at Lough Inc, Skibbereen, Co. Cork.

MUSEUMS. Nat. hist., med., Cork public

museums Bot. gdn. and plant houses Coll. farm.

**CRAWFORD OBSERVATORY.** Equatorial telescope (8 in) and transit telescope (5 in.).

**TEACHING HOSPITALS.** North Chautable Infirmary and County & City of Cork General H., South Infirmary and County of Cork General H., St. Panbar's H. (general, fever, midwifery), St. Mary's Orthopaedic H., Cork Mental H., Cork Eye, Ear & Throat H., Brinville H. (County & City of Cork Lying-in H.), Cork Dental H.

**ADMISSION.** Matric. of N.U.I., or its equivalent. Sp. fac. requirements. *exam.*—entrance exam. in maths. Non-Irish-born students must also apply to the pres. of the coll. for admission.

**Non-Members of UNIVERSITY** may be admitted to classes if permission is granted by the pres. of the coll.

**FIRST DEGREES (of N.U.I.).** 3 yrs. (separate gen. and hon. courses)—BA, BSc [except for hona. degree in chem., exper. phys. or physiol., which takes 4 yrs.] Normally 3 subjs. for BA or BSc gen. degree. Normally a principal subjs. for BA hona. degree, with certain grouping restrictions. Subjs. available: Irish, Engl., French, German, Greek, Italian, Latin, Spanish, Welsh, archaeol., econ., geog., hist., mathl. phys., maths., philoa., psychol., sociol., statistics. Normally 1 principal and 1 subsidiary subjs. for BSc hona. degree. Principal subjs. for BSc hona.: biochem., bot., chem., exper. phys., geol., mathl. phys., maths., physiol., statistics, sociol. Regns. for BSc are being changed to provide for BSc general in 3 yrs., with 4th yr. for hona.: 3 yrs. (pass and hona. on same course)—BCL, BComm, BMus 4 yrs. (pass and hona. on same course)—BE (civil or electr.), BScDairyng. 5 yrs. (pass and hona. on same course)—BDS. 6 yrs. (pass and hona. on same course)—MB BCh BAO.

Evening courses leading to BA pass degree (with a restricted choice of subjs.) and the BComm degree are normally started once every 4 yrs.

**HIGHER DEGREES (of N.U.I.)** 1 yr. min.—LLB, MA, MEdonSc, MEngSc, MSc, MSc Dairyng. 3 yrs. min.—MComm, ME, MCh, MAO, MDS, MD, PhD. 5 yrs. min.—DLitt, DLittCelt, DEconSc, DSc, DMus, LLD.

In certain circumstances grads. of other univs. may be admitted to higher degrees. Courses of instruction are available for the MA or MSc degree in mathl. phys., maths. and stats.; also for LLB degree.

**DIPLOMAS.** Univ. dipl.: 1 yr.—HDipEd (postgrad.); 2 yrs.—dairy sci., comm., chem. technol. Coll. dipl.: obstet. (1 yr. postgrad.), comml. educn. (1 yr. from BComm).

**STUDY LEAVE.** No standard practice. Leave-of-absence granted to members of staff, who make own arrangements, provided coll. satisfied with purpose of leave and with arrangements for teaching during absence.

**ANNUAL FEES.** First degrees—arts, comm., law or musoc, £45; dairy sci., £60; engin. or sci., £65. Med.: pre-med., £65; 1st or 2nd yr., £70, 3rd yr., £85; 4th yr., £45, 5th yr., £35. Clin. and hosp. fees—conjoint hosp. ticket (3 hospa.), 3rd yr., £15; 1st, 4th or 5th yr., £33. Spec.—anesth., £2; 2nd; post-mortems, £2; fever, £3; 3rd; orthopaedic surg., £3; 3rd; mental hosp. (3 mos), £4; 4th, ophthalmic hosp. (3 mos), £5; 5th; maternity hosp. (6 mos), £12; 12th. Dentistry: pre-dent., £65; 1st or 2nd yr., £70; 3rd yr., £40; 4th yr., £13. Dent. hosp. fees—and yr., £47; 12th; 3rd or 4th yr., £75. Equipment & instruments, £55 total approx.

Higher degrees—LLB, £45; MSc, MSc Dairyng, MEngSc, ME, £35; PhD, 1st yr., £25, and yr. £15, 3rd yr. £10. All others, £25.

**DIPLOMAS**—HDipEd or dipl. in comml. educn., £30; dipl. in dairy sci., £28 each yr.; dipl. in comm. or in chem. technol., £1 each yr.

Foreign students, incl. students from Gt. Britain, pay 50 per cent. in excess of the above fees.

**ACADEMIC YEAR.** Term dates, 1962-63: Michaelmas, Oct. 1-Dec. 31; Hilary, Jan. 1-March 31; Trinity, April 1-June 30. Christmas and Easter recesses: med. and dent., Dec. 23-Jan. 1 (incl.) and April 12-April 15 (incl.), all others, Dec. 15-Jan. 7 (incl.) and March 23-April 16 (incl.).

**LANGUAGES OF INSTRUCTION.** English. Limited provision for lectures through medium of Irish also.

**ADULT EDUCATION.** The adult educ. cttee, in co-operation with local cttees. of vocational educn., conducts various courses in adult educn. and arranges for lectures and conferences. Coll. dipl. in soc. & econ. sci. (2 yrs.); coll. dipl. in soc. study (2 yrs.); coll. dipl. in rural & soc. sci. (2 yrs.); coll. dipl. in soc. & home sci. (2 yrs.). These dipls. are open only to pt.-time adult educn. students.

**APPOINTMENTS BUREAU.** See 'Admin. and Other Staff', above.

**GRADUATE ASSOCIATIONS.** Univ. graduates' club, Cork (non-official); N.U.I. graduates' assocn.

**STUDENT RESIDENCES.** Honan Hostel, College Rd., Cork (approx. 38 men students), fee 115 gr. per session; La Retraite, Cork (approx. 30 women students), fee £120 per session. General system of licensed lodgings. Students subject to supervision by officers of residence.

**UNIVERSITY MILITARY FORMATION.** P.C.A. (Fórsa Coimisiúnaí).

**STUDENTS' HEALTH SERVICE.** Available to all students. Med. exam. compulsory for all freshmen.

**STUDENTS' REPRESENTATIVE COUNCIL.** Elected annually by students. Has 3 representatives on jt.

bd., which makes annual grants to student clubs and societies. Generally co-ordinates student social functions

**ATHLETIC FACILITIES** Athletic and cycling club, assocn. football, basketball, boxing, canogie, hurling, Gaelic football, golf, lawn tennis, rowing,

rugby football, swimming, women's hockey. Coll. athletic grounds, 15 acres. 20 student socs.

**PUBLICATIONS** Annual: *Calendar* (3s.), *Cork Univ. Record*, *Quarryman* (students' magazine), *Entrance Scholar*, *Notes of Courses*, *Univ. Exam. Papers*.

## THE YEAR 1961

**NEW DEPARTMENTS AND CHAIRS** Chairs Spanish, nuclear & theoret. phys.; chem. spectroscopy; concrete technol. Dept.: pub. admin

**RETIREMENTS** Prof. J. C. Saunders (hyg & pub health), S. Neeson (Irish music)

### Statistics

**STUDYING NUMBERS, 1961-62**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1040	88
Women	463	32
Total	1503	120

**Distribution by Faculties** Agric, 31, arts, 608; comm, 99; dairy sci, 81; engin., 131; law, 10; med. & dent., 270; sci., 273 Total 1505.

*Included in the figures above are*—

Postgraduate students, 160.

New admissions, 469.

Students from other countries, 56. (Countries from which largest numbers came: U.S.A., 19; Nigeria, 19; Holland, 6)

**DEGREES AWARDED (by N.U.I.) (1960-61).**  
*Arts*: BA, 113 (incl. 52 honours); BMus, 5 (incl. 1 honours); MA, 14 (all honours); PhD, 1. *Comm.*: BComm, 20 (incl. 4 honours); MComm, 1. *Dairy sci.*: BScDairying, 3 (incl. 1 honours); MScDairying, 2. *Engin.*: BE, 29 (incl. 8 honours) Law: BCL, 1. *Med.*: MB BCh BAO, 18 (incl. 1 honours); MCh, 1. BDS, 17. *Sci.*: BSc, 74 (incl. 41 honours); MSc, 11 (incl. 1 honours); PhD, 2. *Total number of first degrees awarded, 280*

**DIPLOMAS AWARDED (by N.U.I.) (1960-61).**  
HDipEd (postgrad.), 78 (incl. 24 honours); Dip DairySci, 16; DipComm, 11; DipChemTech, 4.

[Information compiled as at 14/9/62]

## UNIVERSITY COLLEGE, GALWAY

Founded 1845

Postal Address: Galway, Republic of Ireland

Telephone: Galway 2408

PRESIDENT—M. Ó TUATHAIL, DSc

ROOSTER—Professor J. MITCHELL, BSc BE, FGS

BURMAR—Professor P. LARKIN, BA HDipEd

## TEACHING STAFF

[† = Part-Time]

Anatomy		Botany	
Shea, S., MD BCh BAO	Prof.	De Valera, Maurin, MSc PhD	Prof.
Doyle, J. F., MB BCh BAO, FRCSI	Lectr.	MacSimone, T., BSc	Asst
2 Assts.†, 6 Demos		1 Demr	
Archaeology, Celtic		Celtic Languages	
Duignan, M. V., MA HDipEd	Prof	deBurca, S., MA PhD	Lectr.

<b>Chemistry</b>		<b>Law and Jurisprudence</b>	
O'Colla, P., DSc PhD	Prof.	Gallagher, P., BA LLB	Prof.
O'hEocha, C., MSc PhD	Lectr.		
Lee, Elizabeth, MSc PhD	Asst.	<b>Mathematical Physics</b>	
Carroll, D., BSc	Asst.	MacCannath, E., MA MSc	Prof.
5 Assts., 10 Demrs		Flavin, J. N., MSc	Lectr.
		Muldowney, S., MSc	Asst.
		Coleman, J., MSc	Asst.
<b>Classics, Ancient</b>		<b>Mathematics</b>	
Heavey, Margaret M., MA HDipEd	Prof.	Tobin, J. J., MSc PhD	Prof.
Killoran, F., MA HDipEd	Lectr.	McQuillan, D. L., MSc PhD	Lectr.
Lushdéd, C., MA PhD	Asst.	Ryan, E. R., BSc ME	Asst.
3 Assts.†		3 Assts.†	
<b>Economics, Commerce and Accountancy</b>		<b>Medicine, see below</b>	
O'Buschalla, L., MComm HDipEd	Prof.		
O'Nuislan, L., BA BComm D'EconSc	Lectr.	<b>Philosophy</b>	
<b>Education</b>		Rabbette, Rev. E., PhD DD	Prof.
Larkin, P., BA HDipEd	Prof.	O'hEidsun, Rev. Fr. E., DPhil Rouss,	
MacPhann, Rev. P. E., MA DD HDipEd	(in Irish) Lectr.	MA	Lectr.
MacCabe, Br. L., BA HDipEd	Asst.	2 Assts.†	
<b>Engineering, Civil</b>		<b>Physics</b>	
O'Keefe, J. D., BE PhD	Prof.	O'Brochain, C., MSc PhD	Prof.
O'Lochmann, P., BE MSc	Lectr.	Larkin, D. M., MSc PhD	Lectr.
Nash, J. E., ME	Asst.	O'Connor, T., MSc PhD	Lectr.
Tobin, P., ME	Asst.	2 Assts.†, 13 Demrs	
Lee, G. J., DIC, BE			
<b>Engineering, Electrical</b>		<b>Physiology</b>	
Ryan, E. R., BSc ME	Asst.	Donegan, J. F., BSc MB BCh BAO	Prof.
<b>English Language and Literature</b>		Burns, J. K., BSc MB BCh BAO	Lectr.
Murphy, J., MA PhD	Prof.	O'Toole, S., MB BCh BAO	Asst.
Dolan, P., MA	Lectr.		
Brennan, P., MA HDipEd	Asst.	<b>Romance Languages</b>	
<b>Geology and Geography</b>		MacGillarnáth, P., MA LLB	Prof.
Mitchell, J., BSc BE, FGS	Prof.	O'Reilly, Mary J., MA	Lectr.
1 Demr.		3 Assts.†	
<b>German</b>		<b>Zoology</b>	
Shea, Mrs. Margaret M., MA	Prof.	O'Ceidigh, P., MSc PhD	Prof.
		O'Connell, S., BSc	Asst.
		3 Demrs.	
<b>History</b>		<b>MEDICINE</b>	
Hayes-McCoy, G., MA PhD DLitt BComm	Prof.	(for subjs. of first 2 yrs.—Anat., etc., see above)	
Kennedy, Sheila G., MA HDipEd	(in Irish) Lectr.	<b>Bacteriology</b>	
Barry, J. G., MA PhD HDipEd	Lectr.	Folan, M. E., MSc MB BCh BAO	Prof.
<b>Irish, Modern</b>		2 Demrs.	
O'Milla, T. S., BA PhD HDipEd	Prof.	<b>Experimental Medicine and Practical Pharmacology</b>	
O'Brian, T. P., MA PhD	Asst.	Lavelle, J. M., MB BCh BAO	Prof.
4 Assts.†		1 Demr.	
<b>Irish, Old and Middle, and Celtic Philology</b>		<b>Medical Jurisprudence</b>	
Ní Mac-Chrúin, Miss Caitlin, DPhil	Prof.	Little, M. G., MB MCh PhD	Lectr.
Bonn, MA HDipEd			

Medicine		Pathology	
O'Donnell, M. J., MD 4 Clin. Teachers	Prof.	Kennedy, J. D., MD MSc, 1 Demonstrator	Prof.
Mental Diseases		Preventive Medicine	
Shen, J. R., DPM	Lectr.	McConn, C., BSc MD BCh BAO DPH, FRCPI	Lectr.
Midwifery and Gynaecology		Surgery	
O'Dwyer, E. M., MB MAO	Prof.	O'Brien, S., MCh MB BAO 2 Clin. Teachers	Prof.
Ophthalmology and Otolaryngology		Therapeutics	
....	Prof.	O'Driscoll, B. J., MD BCh BAO	Lectr.
Pediatrics		Therapeutics, Materia Medica and Pharmacology	
McNicholl, B., MD DCH, MRCP	Lectr.	McDermott, E. N., BSc MD, FRCSI	Prof.

## ADMINISTRATIVE AND OTHER STAFF

DEANS OF RESIDENCE: Rev Fr. T. Kynne, BA; Rev R. Harris, BA; Rev F. J. Harris, BA BD; Rev C. McNeill Caldwell, MA.	LADY SUPERINTENDENT: Mrs. Mary O'Dris- coll, BComm.
	ASSISTANT LIBRARIAN: C. Townley, BA BComm.

## GENERAL INFORMATION

Queen's Coll., Galway, was founded in 1845 and opened to students in 1849. In 1908 the coll. became a constituent coll. of the newly incorporated National Univ. of Ireland. A new charter for the coll. was issued on Dec. 20, 1908, changing the name of the coll. to Univ. Coll., Galway.

**CAMPUS PRINCIPAL.** The coll. is situated on the W. side of the river Corrib in the city of Galway. The main bldg., in the perpendicular style of English gothic, was erected in 1848; it is built of local limestone in the form of a quadrangle. In recent yrs. blocks of bldgs. to house the arts sch., the anat. sch. and the bot. and zool. depts. have been erected in the main bldg. The coll. union bldg., and boat club, on the banks of the Corrib, are near by, so too are the athletic grounds. Just outside the coll. boundary is the new Galway Regional Hosp.; it is the recognized teaching hosp. for the Galway med. sch.

**LIBRARY.** 80,000 vols.

**LABORATORIES.** Anat., bacteriol., biol., chem., engin., geol., pathol., phys., physiol.

**MUSEUMS.** Anat., archaeol., gynecol., nat. med., nat. hist.

**ADMISSION** is by matric. of N.U.I. or its equivalent. In addition, special entrance exam. in maths. for fac. of engin. Students not born in Ireland must also apply to pres. of the coll. for admission.

**FIRST DEGREES** (of N.U.I.). BA, BA (Celt.

studies)—3 yrs. (hons. degree may be obtained in Irish, Engl., Latin, Greek, French, Italian, Spanish, German, mod. hist., Breithnach (Welsh), Celtic archaeol., econ., sociol., philos., legal & pol. sci.), BSc—3 yrs. (pass degree and also hons. degree in maths and natl. phys.), 4 yrs. (hons. degree in bot., chem., phys., zool.). BComm—3 yrs., LLB—2 yrs. after BA (legal & pol. sci.) or 3 yrs. after BA (ordinary subjs.), BE (civil)—4 yrs., MB BCh BAO—6 yrs.

**HIGHER DEGREES** (of N.U.I.). MA, 1 yr. from BA; MSc, 1 yr. from BSc; PhD, 3 yrs. from 1st degree (all facs.).

**DIPLOMAS, CERTIFICATES.** HDipEd, 1 yr. from BA or BSc; DipEd, 1 yr. from 2-yr. course in teachers' trg. coll.; CertComm, 1 yr.

**FEES.** Coll., £45 p.a. Inclusive approx. fee for complete degree course: arts, 3 yrs., £102; sci., 3 yrs., £144; law, at least 6 terms after BA, £198; med., 6 yrs. (incl. 2 yrs. gen. hosp. fees), £343; engin., 4 yrs., £192; comm., 3 yrs., £102. Postgrad. or res. course, £22. Foreign students in all facs. are required to pay 50 per cent. in excess of normal coll. fees.

**ACADEMIC YEAR.** Oct. to June, 3 terms of 10 weeks each. Term dates, 1962-63: Michaelmas, Oct. 10-Dec. 20; Hilary, Jan. 15-March 30; Trinity, April 23-June 30.

**LANGUAGE OF INSTRUCTION.** Full courses of lectures are given in the Irish lang. in Irish, Latin,



Greek, hist., geog., maths., Celtic archaeol., econ., comm., accounting, educn., exper. phys., chem., bot., philos. and mathl. phys. Full courses of lectures are given in the English lang. in the subjs. of the professorships and lectureships of the coll., except in the case of the subjs. of the professorship of econ., comm. and accountancy, lectures on which are given through the medium of Irish alone.

**RESIDENCE.** The cost of bd and lodging for a student varies from £3. 10s. to £4 a week. All students (men and women) are required to register

under a dean of residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a lady supt., who exercises supervision over their conduct within the precincts of the coll.

There is a UNIVERSITY APPOINTMENTS BUREAU and a STUDENT HEALTH SERVICE.

**PUBLICATIONS.** List of licensed lodging-houses, free; *Coll. Calendar* (2s. 6d.); univ. exam. papers (post free, 2s. 6d.), from O'Goeman and Co., Galway.

## THE YEAR 1961

### Statistics

STUDENT NUMBERS, 1961-62  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	818	47
Women	352	7
Total	1170	54

Distribution by Faculties. *Agric.*, 32; *arts*, 457; *comm.*, 183; *engin.*, 74; *law*, 3; *med.*, 242; *sci.*, 233. Total: 1224.

Included in the figures above are —

Postgraduate students, 139.

New admissions, 421

Students from other countries, 74 (Countries from which largest numbers came: Trinidad, 15; U.S.A., 14).

DEGREES AWARDED (by N.U.I.) (1960-61)  
*Arts.* BA, 85; MA, 5; PhD, 1. *Comm.*: BComm, 39. *Engn.*: BE, 15; ME, 1. *MEng Sc.*, 1. *Law*: LLB, 2. *Med.*: MB BCh BAO, 15; MD, 2. *Sci.*: BSc, 45; MSc, 4; PhD, 2. Total number of first degrees awarded, 201.

DIPLOMAS AWARDED (by N.U.I.) (1960-61).  
HDipEd, 93; DipEd, 1.

## APPENDIX II

### UNIVERSITIES OF SOUTH AFRICA

UNIVERSITY OF CAPE TOWN (p. 1449)  
UNIVERSITY OF NATAL (p. 1460)  
UNIVERSITY OF THE ORANGE FREE STATE (p. 1469)  
POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN  
HIGHER EDUCATION (p. 1473)  
UNIVERSITY OF PRETORIA (p. 1478)  
RHODES UNIVERSITY (p. 1489)  
UNIVERSITY OF SOUTH AFRICA (p. 1494)  
UNIVERSITY OF STELLENBOSCH (p. 1498)  
UNIVERSITY OF THE WITWATERSRAND,  
JOHANNESBURG (p. 1507)

[Information compiled as at 16/8/62]

#### UNIVERSITY OF CAPE TOWN\*

Incorporated 1918; previously established as South African College, 1829

*Postal Address:* Private Bag, Rondebosch, Cape Province, South Africa

*Cables and Telegrams:* University, Rondebosch

*Telephone:* 694331-3

VISITOR—THE STATE PRESIDENT OF THE REPUBLIC OF SOUTH AFRICA

CHANCELLOR—THE HON. MR. JUSTICE A. VAN DE SANDT CUNLIFFES, BA Cape, DCL Oxon, LL.D.

PRINCIPAL AND VICE-CHANCELLOR—J. P. DUMINY, HON. LL.D. Natal, BSc Oxon, MA Oxon. &  
Cape T

DEPUTY PRINCIPAL—D. P. INSKIP, MA Glas., Ltel Nancy

PRESIDENT OF CONVOCATION—A. H. BOGHEMA, QC, BA Stell., LLB

CHAIRMAN OF COUNCIL—A. F. STEPHEN, BA LLB

REGISTRAR—J. G. BENFIELD, BCom S.A.

LIBRARIAN—R. F. M. IMBELMAN, BLS Col., MA, FLA

\* Member of the Association of Universities of the British Commonwealth

## TEACHING STAFF

[† = Part-Time]

- Accounting**  
Greenwood, H., FSAA, CA  
Loughout, J., BCom, CA  
20 Lectrs † and Tutors
- African Studies**  
Westphal, E. O. J., MA *Rand*, PhD *Lond.*  
(Bantu Langs.) Prof.  
Wilson, Mrs Monica, MA PhD *Cambs.*,  
FRSSAf (Soc. Anthropol.) Prof.  
Simons, H. J., MA *S.A.*, PhD *Lond.*  
(African Govt. & Law) Assoc. Prof.  
Inskip, R. R., MA *Cambs.*, FSA  
(Archaeol.) Sr. Lectr.  
Kunene, D. P., MA  
Carstens, W. P., BA *Rhodes*  
3 Jr. Lectrs., 1 Clerical Asst.
- Afrikaans, see Nederlands and Afrikaans**
- Anatomy**  
Wells, L. H., MB ChB DSc *Rand* Assoc. Prof.  
van der Horst, Joan H., MB ChB Lectr.  
Jarvis, J. F., MB BS *Lond.* Lectr.  
Wilson, Paula M., MB ChB Lectr.  
6 Lectrs †, 2 Assts. †, 2 Tech. Assts.
- Architecture**  
White, L. W. T., FRIBA Prof., Dir. of Sch.  
Pryce-Lewis, O., FRIBA Assoc. Prof., Asst. Dir. of Sch.  
Butt, J. E.  
(Quantity Surveying) Sr. Studio Master  
Scurrock, F. L., FRIBA Sr. Studio Master  
Mouras, A. S. Sr. Studio Master  
Bolland, F. S., DipArch DipTP Sr. Studio Master  
Anderson, W. G. D., BA *Lond.* Sr. Studio Master  
Klop, U. H. Studio Master  
Floyd, H. C., BAArch Studio Master  
Emery, J. E., BAArch Studio Master  
de Water, F. K., DipArch Studio Master  
Soltynski, R. M., BArch *Warsaw* Studio Master  
James, W. B. Lectr.  
Baragwanath, R. L., DipQS Lectr.  
Raboe, J. W., DipQS Lectr.  
6 Assts., 2 Clerical Assts., 1 Demr.
- Astronomy**  
Stoy, R. H., CHE, MA PhD *Cambs.*,  
FRSSAf Hon. Prof.
- Bacteriology, see Pathol.**
- Bantu Languages, see African Studies**
- Botany and Bolus Herbarium**  
Lütjeharms, W. J., PhilNatD *Ley.*, FRSSAf  
Harry Bolus Prof
- Rycroft, H. R., BSc *Stell.*, MSc *S.A.*, PhD  
Harold Prinsen Prof., Dir. of National  
Bot. Gdns.  
Schelpes, E. A., MSc *S.A.*, DPhil *Oxon.*,  
FLS Sr. Lectr.  
Schutte, K. H., PhD *N.U.I.* Lectr.  
Graves, Judith M., MSc Lectr.  
Hall, A. V., MSc, FLS Lectr.  
1 Jr. Lectr., 1 Asst., 1 Tech. Asst., 1 Clerical  
Asst.
- Chemistry**  
Lesqung, E. C., MSc PhD *Natal*  
(Inorg. & Phys. C.) Prof.  
Stephen, A. M., DPhil *Oxon.*, MSc  
PhD (Org. C.) Mally Prof.  
Lunder, P. W. Sr. Lectr.  
Spong, A. H., MSc *Lond.*, PhD *Cambs.*,  
FRIC Sr. Lectr.  
Lamchen, M., MSc *Prat.*, PhD *Lond.* Sr. Lectr.  
Pay, M. H., BSc *Lond.* Lectr.  
Campbell, W. E., BSc *Rhodes* Lectr.  
Hotz, M. C. B., BSc PhD Lectr.  
5 Jr. Lectrs., 6 Tech. Assts., 5 Demrs.,  
1 Clerical Asst.
- Classics**  
Pnap, A. H. R. E., LittD *Utrecht*,  
BLitt *Oxon.* Prof.  
Pope, M. W. M., MA *Cambs.* Prof.  
Newton, B. R., MA *Oxon.* Lectr.  
Conomos, N. C., BA *Athens*, BLitt *Oxon.* Lectr.  
1 Demr.
- Commerce**  
Hutt, W. H., BCom *Lond.* John Gailick Prof.  
Hampton, J. D., BSc *Lond.* Sr. Lectr.  
Horwitz, R., BCom MA Sr. Lectr.  
Gurzynski, Z. S. A., BCom *Lond.* Lectr.  
Bruce, Mrs. Helene, BCom MA Jr. Lectr.  
3 Assts. †, 2 Clerical Assts.
- Economics**  
Robertson, H. M., MA *Lond.*, PhD *Cambs.*  
Jagga Prof.  
van der Horst, Sheila T., PhD *Lond.*,  
MA Sr. Lectr.  
Botha, D. J. J., MCom *Prat.*, EdDr *Asst.*  
Katzner, L. H., BA *Rand*, MSc *Lond.* Sr. Lectr.  
Arkin, M., BA BCom PhD Sr. Lectr.  
1 Jr. Lectr., 2 Demrs., 1 Clerical Asst.
- Education**  
Lighton, R. E., BA *S.A.*, MA *Pret.*  
(in English) Prof.  
Smut, G. J. J., DEd *Stell.*, MA *BEd*  
(in Afrikaans) Prof.

Ferguson, W. T., BA *Rhodes*, MA MED

Stewart, R. R., BSc *Rand*, BA *Rand* & *Potchef.* Sr. Lectr.  
 Spilman, Mary D., BA (Elocution) Lectr.  
 Hart, Ida E. J., MA BEd PhD Lectr.  
 Heynes, I. de V., MA MED PhD Lectr.  
 Sussky, Mrs. Lily-Jean, BA Lectr.  
 Culliers, J. L. le R., MSc *Stell.*, MED *O.F.S.* Lectr.  
 Lombard, C. J., BA *Stell.* Lectr.  
 Gregorowski, Mrs. Dora A. Lectr.  
 Harrison, Patricia Lectr.  
 Williams, Basil Lectr.  
 Bam, Kathleen V. Asst. Lectr.  
 Groves, Mary E., MA 6 Assts

**Engineering, see below****English**

Howarth, R. G., BA *Syd.*, BLitt *Oxon.*, FRSL (E. Lit.) Ardorne Prof.  
 Casson, L. F., MA *Adel*, BLitt *Oxon.*, PhD *Edin.*, FSA (R. Lang.) De Beers Prof.  
 Cavers, Dorothy L., BLitt *Oxon*, MA BEd Sr. Lectr.  
 Segal, P., MA *Leid*, BEd Sr. Lectr.  
 Woodward, A. G., MA *Oxon* Lectr.  
 Lennox-Short, A., BA *Oxon*, MA 3 Jr Lectrs., 6 Demrs

**Fine Art, Michaelis School of**

Shephard, R. N., DipFineArt *Leid* Prof.  
 van Esche, M. C. L. Sr. Lectr.  
 Lipshitz, L. Sr. Lectr.  
 Harvey, R. Lectr.  
 Hillhouse, Mary E. Lectr.  
 Walio, R., BA(FineArt) Lectr.  
 Simmers, R. M. (Drawing) Asst.  
 4 Assts., 1 Demr., 1 Sec.

**French**

Shackleton, M., MA *Oxon* Prof.  
 Greshoff, C. J., MA LittDrs *Amst.* Sr. Lectr.  
 Whistman, Mrs. Marie J., PhD *Paris*, MA Lectr.  
 2 Jr Lectrs., 1 Asst.

**Geochemistry**

Ahrens, L. H., MA *Oxon*, DSc *Pret.*, FRIC, FGS Chamber of Mines Prof.  
 1 Res Asst.

**Geography**

Talbot, W. J., BSc *Leid.*, FRSSAf Prof.  
 Davies, D. H., MA *Wales* Sr. Lectr.  
 Impey, L. L. H., MA Lectr.  
 Beyer, Jacqueline, PhD *Chic.* Lectr.  
 1 Demr., 1 Sec.

**Geology, see Mineral.****German**

Reutebucher, J. H. W., DPhil *Bres.*, PhD *Camb.* Prof.  
 Meunert, D., MA Lectr.  
 1 Jr. Lectr.

**Hebrew**

Abrahams, I., MA *Leid.* †Prof.  
 1 Asst., 1 Demr.

**History**

Axelsson, E., MA *S.A.*, DLitt *Rand.*, FRHist King George V Prof.  
 van der Poel, Jean, PhD *Leid.*, MA BEd Sr. Lectr.  
 Nourie, G. B., MA *S.A.*, Natal & *Oxon.* Sr. Lectr.  
 Davenport, T. R. H., MA *S.A.* & *Oxon*, PhD Lectr.  
 Katzen, Mrs. Maybelle, MA *Rand* & *Leid.* Lectr.  
 2 Jr. Lectrs., 1 Demr.

**Librarianship**

Inneman, R. F. M., BLS *Col.*, MA Dir.  
 Wertheimer, Mrs. Ruth M., BA *W.Ont.*, BLS *Col.*, MS *Ill.* Asst. Dir.  
 5 Assts

**Mathematics**

Parkyn, D. G., MA *Oxon* Prof.  
 Househam, K. O., BSc *Rand*, MA *Prin.*, MSc Prof.  
 Stewer, S., PhD *Camb.*, MA BSc Assoc. Prof.  
 Whiteman, J. H. M., MA *Camb.*, MSc PhD Assoc. Prof.  
 Hardie, K., MSc *Natal*, PhD *Camb.* Sr. Lectr.  
 Smart, D. R., PhD *Camb.*, BCom MSc Sr. Lectr.  
 Langerman, S. M., MA *Camb.*, MSc Sr. Lectr.  
 Nel, L. D., MSc *Stell.*, PhD *Camb.* Sr. Lectr.  
 Allison, D., BA MSc BEd Lectr.  
 Alma, Mrs. Irene, MEd(*Leest.*) *T.H.Delft* Lectr.  
 Gravett, Isabelle N., BA *Natal* Lectr.  
 Wulfehen, A., MSc *Camb.*, BSc Lectr.  
 Boxenbail, P. R., BSc *Monc.* Lectr.  
 1 Jr Lectr., 4 Assts., 2 Clerical Assts.

**Microbiology**

Olivier, Dorothea L., BSc *Rand*, MSc Lectr.

**Mineralogy and Geology**

Simpson, E. S. W., PhD *Camb.*, MSc Phillips-Stow Prof.  
 Martin, H., DPhil *Bonn* Dir., Chamber of Mines Res Unit  
 Mathias, Mrs. Frances C. M., MA PhD Sr. Lectr.  
 Fuller, A. O., PhD *Prin.*, MSc Sr. Lectr.  
 Newton, A. R., MSc *Nott.* Lectr.  
 1 Res. & Museum Asst., 1 Demr.

- Music**  
 Chisholm, E., DMus Edin., FRCO  
 Prof., Dir. of S. African Coll. of Music  
 Sr. Lectr.  
 Arnold-Domvautis, Mrs. Adelheid  
 Sr. Lectr.  
 Rubens, H.  
 Sr. Lectr.  
 Robins, S.  
 Sr. Lectr.  
 Pulvermacher, G.  
 Sr. Lectr.  
 Dennis, E. J.  
 Lectr.  
 Kemp, Elizabeth  
 Lectr.  
 Hall, L., BA BMus Oxon.  
 Lectr.  
 Fiasconaro, G.  
 Lectr.  
 Starcke, Marjorie  
 Lectr.  
 Carter, R.  
 Lectr.  
 Fortescue, Virginia  
 Lectr.  
 Cameron-Taylor, J.  
 Lectr.  
 1 Asst., 2 Clerical Asss., 30 other staff
- Nederlands and Afrikaans**  
 Scholtz, J. du P., MA Stell.  
 LittD Assst & Utrecht Hofmeyer Prof  
 Verhage, J. A., MA PhD Sr. Lectr  
 Lundenberg, E., LittDoct's Assst., BA  
 PhD Rand Lectr  
 Raut, Edith H., BA BEd Lectr  
 1 Jr Lectr., 1 Asst.
- Nederlands Cultural History**  
 Bax, D., LittD Nijmegen & Assst. Prof.
- Oceanography**  
 Darbyshire, J., DSc Wales, FIP Prof.  
 2 Tech Asss.
- Pathology, see Medicine, below**
- Philosophy**  
 Murray, A. H., MA Stell., BLitt  
 DPhil Oxon. Prof  
 Versfeld, M., PhD Glas., MA Assoc. Prof.  
 du Plessis, S. I. M., DPhil Pret St. Lectr  
 2 Jr. Lectrs.
- Physics**  
 Schaffler, W., MSc PhD S.A. Prof  
 Grundley, E. N., MSc Brat., PhD Sr. Lectr.  
 Wales, G. G., MSc S.A., DPhil Oxon. Sr. Lectr.  
 Junts, J. W. F., MSc Sr. Lectr.  
 Cherry, R. D., MSc Sr. Lectr.  
 Buchowski, J., DipEngg Zur. Lectr.  
 Cilliers, W. A., MSc Stell., PhD Camb. Lectr.  
 Dixon, M. E., BA Oxon. Lectr.  
 Feil, D., DPhil Utrecht Lectr.  
 2 Jr. Lectrs., 6 Tech. Asss., 1 Clerical Asst.
- Physiology and Pharmacology**  
 Sloan, A. W., BSc MD Glas., FRFPGlas Prof.  
 Zwarenstein, H. J., DSc Manc., MA MSc  
 Assoc. Prof.  
 Sepsika, N., BA PhD MD Assoc. Prof.  
 van Zyl, A., MSc Stell., PhD Rand Sr. Lectr.  
 Barber-Ruley, G., BSc MD Lev Lectr.
- Ramsey, A. G., BSc PhD Glas., MS Northwestern**  
 Wilkens, J. A., BSc S.A., BSc Rand, PhD  
 1 Jr. Lectr., 4 Lectrs., 8 Tech. Asss., 1 Clerical Asst
- Psychology**  
 Dunniger, K., DPhil Oxon., BA MSc Prof.  
 Sr. Lectr.  
 Grover, Vera M., MA PhD Sr. Lectr.  
 Botha, Elizabeth, PhD Lectr.  
 Bloem, L., BSc Lond Lectr.  
 1 Lectr., 1 Tech. Asst., 1 Clerical Asst.
- Social Science**  
 Batson, E., BSc(Econ) Lond. Prof.  
 Ventra, Eileen M. E., BA Lond., MA S.A.  
 Supervisor, Field Work  
 Helen, Mrs. Brunhilde, MScSc Lectr.  
 Batson, Mrs. Helen M., BSc(Econ) Lond. Lectr.  
 3 Asss., 1 Clerical Asst.
- Speech Training**  
 van der Gucht, Rosalie E., DiplDramatic  
 Art Lond. Sr. Lectr.  
 Taylor, Mavis L., BA UEDipl Natal Lectr.  
 5 Asss., 1 Clerical Asst.
- Zoology**  
 Day, J. H. O., DFC, PhD Liv., BSc S.A. Prof  
 Broekhuysen, G. J., PhD Ley. Sr. Lectr.  
 Millard, M., Naomi A. H., PhD Sr. Lectr.  
 Brown, A. C., MSc Rhodes Sr. Lectr.  
 Paterson, Nellie, DSc Rand, PhD Camb. Lectr.  
 3 Jr. Lectrs., 2 Tech. Asss., 1 Clerical Asst.
- ENGINEERING**  
 (see also Maths, above)
- Chemical Engineering**  
 Carr, A. D., BSc PhD Sr. Lectr.  
 de Kock, J. W. Sr. Lectr.  
 Buhr, H. O., BSc Lectr.  
 1 Tech Asst
- Civil Engineering**  
 Robertson, R. G., MA Oxon. Corporation Prof.  
 King, W. H., BA Manc., BSc Durk. Sr. Lectr.  
 Robertson, D. C., MSc Sr. Lectr.  
 Kilner, F. A., MA Oxon., DIC, MSc Lond.  
 Sr. Lectr.  
 McGaw, D. J., BSc Lond. Lectr.  
 de Kock, M. O., BSc Lectr.  
 3 Jr. Lectrs., 2 Tech. Asss., 1 Clerical Asst.
- Electrical Engineering**  
 Guelke, R. W., PhD Galt., FIP Corporation Prof.  
 Besseling, J. L. N., BSc(Eng) PhD Sr. Lectr.  
 Webster, G. H., MEng Sheff. Sr. Lectr.  
 Enhorn, H., DrIng Berl., PhD Sr. Lectr.  
 Enslin, N. C. de V., MSc PhD Lectr.

McLaren, S. G., BSc  
1 Jr Lectr., 4 Tech. Asses., 1 Demr.

Lectr. Du Toit, H. J., MMed ChB  
Via, P. A., MB Anst., MMed  
9 Lectrs †

Lectr.  
Lectr.

### Land Surveying

Menzies, G. H., BSc  
West, I. D., BSc P.H.Delft & Cape T.  
(Theory of Land S.) Sr. Lectr.  
Meadows, P. L., BSc  
Taylor, I. McL., BSc  
1 Jr. Lectr., 2 Asses., 1 Tech. Asst.

Prof. Bacteriology, see Pathol. and Bacteriol.

### Cardio-Thoracic Surgery

Barnard, C. N., MS PhD MMed, MMed  
ChB Assoc Prof; Dir., Surgical Res  
Fraser, R. W. M., MB ChB  
3 Lectrs †

Prof.

Sr. Lectr.

1 Sr. Lectr.

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1 Sr. Lectr.

### Mechanical Engineering

Metcalf, P., MA Oxon, BSc  
Stegen, R. M., BSc S.A., MSc Bim  
de Candia, O. E., Dotling Tum  
Kessal, J. T., BSc Rand  
Burger, C. P., BSc Stell  
Kernsey, J., BA Cam  
Oosthuizen, P. H., BSc  
2 Asses., 3 Tech. Asses.

Prof.

Sr. Lectr.

Sr. Lectr.

Lectr.

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Lectr.

### LAW

(see also African Studies, above, and  
Forensic Med., below)

### Roman-Dutch Law

Price, T. W., MA LLB PhD Cambr., BA  
LLD S.A.  
de Vos, W., BA LLB Stell, LLD  
6 Asses., 1 Clerical Asst.

Prof.

Assoc Prof

Sr. Lectr.

Sr. Lectr.

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Sr. Lectr.

### Roman Law

Beumart, B., LL.M. Lond., BA LLB  
W. F. Schreiner Prof  
Leeman, I., BA LLB Stell  
4 Asses., 1 Clerical Asst.

Prof.

Sr. Lectr.

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### Commercial Law

Thomas, J. D., BA LLB  
5 Asses., 1 Clerical Asst.

Prof.

Sr. Lectr.

Sr. Lectr.

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Sr. Lectr.

### MEDICINE

(for subjects of the first 2 yrs —  
Anst., etc., see above)

Bromilow-Downing, B., MB ChB  
Prof. of Med. Educn., Dean

### Anæsthetics

Bull, A. B., MB ChB  
Harrison, G. G., MB ChB  
Pretorius, J. A., MMed ChB  
Ozolsky, J., MB ChB  
Hayes, M. H., MA O.F.S., MB ChB  
Voss, T. J. V., MB ChB  
Akins, L., MMed ChB  
Abelshin, J., MB ChB  
Jenkin, P. S., MB ChB  
Mullerhe, P. H., MMed ChB  
Rossouw, G. J., MB ChB MMed

Sr. Lectr.

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Sr. Lectr.

### Chemical Pathology

Kench, J. E., MB ChB MMed, PhD  
DSc Brit  
Potgieter, G. M., MB ChB MMed  
Beiman, M. C., BSc MMed ChB  
5 Tech. Asses.

Prof.

Sr. Lectr.

Sr. Lectr.

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Sr. Lectr.

Jackson, W. P. U., MA MD Camb.  
 Heffenberg, R., MD  
 Dowdle, E. B. D., MD  
 Beck, W., MSc MMed  
 Saunders, S. J., MB ChB  
 Scoum-Mibashon, R., BSc MD  
 Gordon, H., BSc MD, FRCP  
 17 Med. Practis.†

### Mental Disorders

Cheese-Brown, T. E  
 4 Assts.

### Neurology and Psychiatry

Berman, S., MD Lond., FRCP  
 Walton, H. J., MD  
 Gilha, L. S., MD ChB DPM Rand  
 Ames, Mrs Frances R., MD  
 Bührmann, M. U., MB ChB  
 Clarke, M. R., MRCPed  
 Cooper, H., MD  
 de Wet, J. S. du T., MD  
 McGregor, J. McW., MRCP  
 Wolff, S., MA BM Oxon.  
 Saffary, W. A., MB ChB

### Neuro-Surgery

Hamman, H. de V., MD *Munich* †Hd of Dept.  
 Keet, P. C., MMed ChB Sr. Lectr.  
 Van Niekerk, J. P., MB ChM Sr. Lectr.

### Obstetrics and Gynaecology

Louw, J. T., MB ChM, FRCOG Prof.  
 Massey, Patricia, MB ChB, FRCOG †Sr. Lectr.  
 Buss, T. St. V., MB ChB, FRCOG †Sr. Lectr.  
 Apthorp, J. O. B., MB ChB, FRCSI,  
 FRCOG †Sr. Lectr.  
 Charneck, F. N., MB ChB †Sr. Lectr.  
 de Valliers, D. P., MB ChB *Lov.*,  
 FRCSEd †Sr. Lectr.  
 Lepoux, M. †Sr. Lectr.  
 Michael, A. M., MB ChB, FRCSEd †Sr. Lectr.  
 Rees, H. G. †Sr. Lectr.  
 Resnick, L., MB ChB †Sr. Lectr.  
 Louw, N., MB ChB MMed †Sr. Lectr.  
 Craig, C. F. T., MB ChB Lectr.  
 6 Lectrs.]

### Ophthalmology

de Kock, J. K., MB ChB †Sr. Lectr.  
 Townsend, R. L. H., BM BCh Oxon.,  
 BA †Sr. Lectr.  
 Kay, B., MB ChB †Sr. Lectr.  
 Appleton, S. C., MB BS Lond.,  
 10 Lectrs.† Sr. Lectr.

### Orthopaedics

Allen, C. E. L., GM, MD Rand,  
 MChOrth *Lov.*, FRCSEd  
 (Orthop. Surg.) Pieter Moll & Nuffield Prof.  
 Commerell, J. J., MCh *Lov.*, MB ChB,  
 FRCSEd †Sr. Lectr.

Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Sarkin, T. L., MD Lectr.  
 Jones, B. S., MCh *Lov.*, MD Camb.,  
 FRCSEd Lectr.  
 8 Lectrs.]

### Pathology and Bacteriology

Kapts, A., MD  
 (Bacteriol.) Wernher & Beit Prof.  
 Thompson, J. G., MD ChB *Abod*  
 (Pathol.) Wernher & Beit Prof.  
 Uys, C. J., MD Rand Sr. Lectr.  
 Selzer, Golds, MB ChB Sr. Lectr.  
 Naude, W. du T., MSc *Stell.*, MMed  
 ChB Sr. Lectr.  
 Don, Phyllis A., BA MB ChB †Sr. Lectr.  
 Campbell, J. A. H., MMed ChB Sr. Lectr.  
 Timme, A. H., MB ChB MMed Lectr.  
 Becker, W. B., MMed ChB Lectr.  
 12 Tech Assts

### Physiotherapy

Roper, Margaret H. S. Lectr.

### Plastic Surgery

Davies, D. J., MB ChB, FRCS †Sr. Lectr.  
 4 other Lectrs.]

### Psychiatry, see Neurol. and Psychiatry

### Public Health

Cooper, E. D., MD DPH *Glar.*, FRFSPGlas  
 †Prof.  
 3 Lectrs.†

### Radiology

... (Radiolog.) Prof.  
 Griev, J. M., MB ChB *Glar.*,  
 DMRE *Lov.*, Assoc. Prof.  
 Werbeloff, L., DMRE Camb., MB ChB  
 Sr. Lectr.  
 LeRoux, P. L. M., MSc Lectr.  
 Sesly, G. R. H., MA MMed ChB Lectr.  
 Kottler, R. E., MMed ChB Lectr.  
 Krige, H., MB BCh Rand, MMed Lectr.  
 Anderson, J. D., MB BCh Rand, MMed Lectr.  
 Bennett, M. B., DMR Lond. Lectr.

### Surgery

Louw, J. H., ChM Prof.  
 Roberts, W., MMed ChB, FRCS Sr. Lectr.  
 Forsyth, R. L., BA MB ChB, FRCSI | Sr. Lectr.  
 Baugrie, R. D. H., BA MB ChB,  
 FRCSEd †Sr. Lectr.  
 Brown, A., MB ChB, FRCS †Sr. Lectr.  
 Chanock, L., MB ChB *Abod.*, FRCS †Sr. Lectr.  
 Heselson, J., MB ChB, FRCS,  
 FRCSEd †Sr. Lectr.  
 Katz, A., MB ChM, FRCS †Sr. Lectr.  
 Madden, P. C. W., BSc MB ChM †Sr. Lectr.  
 Malherbe, E. B., BSc MB ChM †Sr. Lectr.  
 Schirre, T., MA MB ChB, FRCS †Sr. Lectr.

Schulze, W., MB ChM, FRCS  
 Walkie, W., MB ChM  
 Cywes, S., MMed ChB  
 13 Lectrs.† & Asst. Surgeons

†Sr. Lectr.  
 †Sr. Lectr.  
 Lectr

Barnes, D. R., BA MB BChir Camb.,  
 FRCS  
 6 Med. Practs.†, 1 Asst.

St. Lectr.

### Urology

Scher, S., MB BS Lond., MA.  
 Currie, J. A., MB MS Lond., FRCS

†Sr. Lectr.  
 †Sr. Lectr.

### Vaccination

Gosling, D. C., MB ChB

†Lectr.

### Venereal Diseases

Cohen, L.

†Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Public Relations Officer: D. Fourie, BA. Dir.  
 of Extra-Mural Studies: G. M. Sargent, MA  
 Camb., BA, Accountant: P. G. McDonald, BA  
 S.A. Hon. Sec. of Appts. Cttee.: Prof. R. E.  
 Lighton. Asst. Registrar: L. P. Faber, BA S.A.  
 Asst. Accountant: L. Read. Chief Cttee. Clerk:  
 D. W. Webster, BA Oxon. Chief Clerk Accts.:

P. W. Lee. Exams. Clerk: Dore E. MacDonald.  
 Bookkeeper: Ivy M. Layton. Sr. Clerks: D. S.  
 Cooper, BA, M. G. Hibbard; H. G. Heyden-  
 ryck, BA BCom. Sr. Cttee. Clerk: B. A. A.  
 Riordan. Cttee. Clerks: E. E. Bosworth, R. N.  
 Horton. Clerks: J. M. Botha, A. N. O'Connor.

## GENERAL INFORMATION

The South African Coll., founded in 1829 as a private venture by the churches and citizens of Cape Town and its neighbourhood, was until 1874 a combined primary and secondary sch. with a tiny univ. section at the top. Although the coll. had always had a senate, it was only in 1879 that the governing power passed from the body of shareholders to a council. In 1887 College House, the first univ. residence south of the Sahara, was opened and in the same yr. the general admission of women was granted. Courses in law were added to the arts and sci. courses. From 1900 to 1918 the coll. expanded. There were the beginnings of the schs. of med., engin., and educn., the opening of the first women's residence and finally the incorporation of the coll. in the univ. which was created by Act 14 of 1916 and came into legal existence on April 3, 1918. The council took over a bequest by Sir Julius Wernher of R500,000 and a donation of equal amount from Sir Otto Beit, who added R300,000 to a lapsed bequest by Mr. Alfred Beit.

A site for the univ. was provided by govt. at Groote Schuur, Rondebosch. Over the past 40 yrs. this has been devel. (see 'Univ. Precinct and Location', below) by the erection of tutorial bldgs., several student residences and the Janneke Memorial hall. The univ. has expanded through the incorporation of the S.A. Coll. of Music, the creation of facs. of comm., soc. sci., schs. of African studies, fine art and archit., and the growth of existing facs. Further land adjacent to the site has been purchased and med. bldgs. erected. Greater expansion is envisaged in view of the post-war increase in population and rapid scientific devel.

**CONSTITUTION.** The hd. of the univ. is the chancellor; the chief academic officer is the principal, who is *ex-officio* vice-chancellor; the governing body is the council, which consists of the

principal (*ex-officio*), 5 members nominated by the govt., 6 members elected by convocation, 3 by the old students' constituency, 1 by the diocesan coll. constituency, 3 profs. by senate, and 2 members elected by Cape Town corporation. The control and management of discipline and instruction within the univ. is in the hands of the senate, which consists of the principal, the profs., 2 members elected by the council and 2 assessor members elected by the lecturers' assoc. of the univ.

Convocation, which consists of the profs. and lectrs. of the univ. and its grade, elects the chancellor, 6 members of the council, and a pres. of convocation; it may discuss any matter relating to the univ., and may communicate directly with the council or the senate.

**INCOME (1961).** Total income: R2,220,700 (govt. grants, 63.2 per cent., fees, 33.7 per cent., endowments, etc., 3.1 per cent.)

**FACULTIES.** Arts, comm., educn., engin., fine art & archit., law, med., music (incl. ballet and opera schs.), sci. and soc. sci. Deans, except of fac. of med., are apptd. annually.

**UNIVERSITY PRECINCT AND LOCATION.** The main bldgs., designed chiefly by Sir Herbert Baker, are set on the Cecil Rhodes estate, Groote Schuur, against the background of the eastern slopes of Table Mountain and Devil's Peak, approx. 5 mls. from Cape Town. The site commands a superb view. These bldgs. house all facs. except comm., med. and music, which are situated, respectively, in Cape Town, Mowbray (2 mls. from the main bldgs.) and Rosebank (4 mls. from the main bldgs.).

**LIBRARY.** 330,000 vols., 35,000 pamphlets. Includes med. libr. (42,000 vols.); music libr.—books (4,500), scores (19,000) and records (6,500); archit. libr. (6,700 vols.); Van Zyl law libr. (early Roman-Dutch law) and Bolus bot. libr. 'The



*Bobas herbarium* includes the Guthrie collection of Cape flora

TEACHING HOSPITALS: Groota Schuur H., Cape Peninsula Maternity H., Mowbray Maternity H., Red Cross War Memorial Children's H. and certain wards in Somerset H.

**ADMISSION TO SOUTH AFRICAN UNIVERSITIES.\***  
The qualif. for entrance to a course of study for a first degree of any univ. in South Africa is the matric. cert. of the Joint Matric. Bd. for the nine univs. in South Africa, or a cert. of exemption issued by that bd. A successful candidate at the matric. exam. may be awarded either a sch. leaving cert. or a matric. cert., depending upon the subs. passed, the standards attained in specific subs. and aggregate marks. The sch. leaving cert. is not an entrance qualif. for a course leading to a degree, although it may be accepted by the univs. for admission to courses of study leading to certain dipl. and certs.

*Approved subjects for the matric. exam.* The list of approved subs. is as follows

Section A (1) Afrikaans (H. or L.) §; (2) Engl. (H. or L.); (3) Nederlands (H. or L.); (4) German (H. or L.); (5) Bantu langs. (H. or L.); (6) Latin; (7) Greek; (8) French; (9) Hebrew; (10) Portuguese; (11) Italian; (12) matha.; (13) phys. sci. (not to be taken with 14 or 15); (14) phys.; (15) chem.; (16) biol. (not to be taken with 17 or 18); (17) bot.; (18) zool.; (19) geol.; (20) geog.; (21) hist.

Section B (22) agric.; (23) housecraft & hygiene; (24) book-keeping & comml. arithmetico; (25) shorthand & typewriting; (26) addnl. matha. (may not be taken without matha.); (27) mechanics (may not be taken with phys. or without matha.); (28) art; (29) music; (30) book-keeping [as from Nov./Dec. 1963] (not to be taken with 24); (31) typewriting [as from Nov./Dec. 1964] (not to be taken with 25)

No lang. may be taken on both the higher and the lower grade.

Candidates are required to take, at one and the same exam., not fewer than 5 or more than 7 subs., and to pass in not fewer than 3 subs. with not less than 33½ per cent. in each of the 5, and obtain a fixed min. aggregate, the aggregate for the matric. cert. being 1000 marks and that for the sch. leaving cert. being 800 marks. Candidates so passing obtain either sch. leaving cert., if the subs. passed incl. (i) an official lang. (i.e. Engl. or Afrikaans) on the higher grade and (ii) another lang. or matric. cert., if the subs. passed incl. 4 subs. in each of which the candidate has obtained the matric. standard of 45 per cent., viz. (I) an official lang. (i.e. Engl. or Afrikaans) on the higher grade, (II) the other official lang. on the higher or lower grade, or an approved Bantu lang. on the higher grade or Latin or Greek or French or

German or Italian or Portuguese or Hebrew; (III) matha. or a sci., (IV) matha. if not taken under (III) or another lang. from (II) or hist. or geog. or a Bantu lang. on the lower grade (provided that a Bantu lang. on the higher grade has not been offered under (II)) or other lang. in which the bd. decides to conduct an exam. Candidates who are awarded a matric. cert. must have either (i) included in their 4 subs. matha. or an approved lang. other than Engl. or Afrikaans or (ii) taken matha. or an approved lang. other than Engl. or Afrikaans as a 5th subj., and obtained not less than 33½ per cent. of the total marks. Note: (i) a candidate whose home lang. is a Bantu lang. may present a recognized Bantu lang. in lieu of Engl. or Afrikaans (higher grade) under (I) above. In such cases both Engl. and Afrikaans must be passed on at least the lower grade. Likewise a candidate whose home lang. is German, who is attending sch. in S.-W. Africa and whose parents are/were domiciled in S.-W. Africa, may present German (higher grade) in lieu of Afrikaans or Engl. (higher grade). In such cases the candidates must enter for both Engl. and Afrikaans, one of which must be on the higher grade, and pass in both Engl. and Afrikaans on at least the lower grade (a mark between 30 per cent. and 39 per cent. in the higher grade being recognized as equivalent to 40 per cent. on the lower grade) (ii) As from Nov./Dec. 1963 an approved lang. other than Engl. or Afrikaans will be defined as Latin, Greek, French, German or an approved Bantu lang. (iii) As from Nov./Dec. 1962 a candidate must have passed in either 2 langs. plus matha. or 3 langs. if he does not pass in matha.

The four provincial depts. of educn. in the union (Cape, Natal, Orange Free State and the Transvaal), and the Dept. of Educn., Arts and Sci., conduct exams. for a sch. cert. on syllabuses approved by the bd. These exams. are recognized by the bd. for exemption from its own matric. exam. subject to conditions prescribed by the bd.

*Faculty and departmental requirements.* Although the bd.'s matric. cert. or cert. of exemption is the normal requirement for admission to a univ., certain subs. are prescribed by the univs. as prerequisites for enrolment in some depts. or faculties. A student is advised to have a broad general educn. and to take for the matric. cert. at least 2 of the subs., matha., Latin, Greek, French, German, in addn. to both official langs., i.e. Afrikaans and Engl. Matha. is essential for agric., archt., engin., fac., med. and quantity surveying, and highly desirable for courses in accty., land surveying and sci. A knowledge of Latin of matric. standard is necessary for law. Further particulars of fac. and dept. requirements should be obtained direct from the registrars of the individual univs., not from the Joint Matric. Bd.

\* A full and official statement of the matric. requirements of the South African univs. is contained in the annual *Matric. Exam. Handbook* published by the Joint Matric. Bd., P.O. Box 592, Pretoria, South Africa. Full details of each univ.'s fac. and dept. prerequisites, which are addnl. to the Joint Matric. Bd.'s requirements, should be obtained direct from the registrars of the univ., not from the Joint Matric. Bd.

§ H.=higher grade, L.=lower grade.

**Overseas examinations.** The bd. recognizes for purposes of exemption sch. certs. issued by a number of overseas bodies if the certs. entitle the holder to unconditional admission to an approved univ. in the country of origin and the subs. passed and the standard attained are in accordance with the bd.'s regns. for its own matric. cert. As examples, a credit in a sub. for the Cambridge Overseas Sch. Cert. is accepted as equivalent to a '40 per cent. pass', and a pass in a sub. for the Higher Cert. of the Oxford & Cambridge Schs. Exam Bd and a pass at ordinary level in the General Cert. of Educn. are similarly accepted. Exemption is given sub. for sub. (Engl. lang. but not Engl. lit., is recog. as fulfilling the requirement for exemption from Engl.). The bd. is, however, not prepared to recognize a Bantu lang. of the Cambridge Overseas Sch. Cert. as equivalent to a Bantu lang. at a South African exam. The bd. may issue either a cert. of full exemption or a cert. of conditional exemption which may be converted into a cert. of full exemption if the holder fulfills specified conditions within a prescribed time. For full exemption on the strength of the Cambridge Overseas Sch. Cert. or the General Cert. of Educn. the bd.'s requirements include passes in at least 2 subs. at principal or advanced level.

Overseas qualifs. recog. by the bd. incl. 'the sch. certs. awarded by each of the 9 examining bodies in England and Wales recog. by the Ministry of Educn. for England and Wales (see p. 155a); the General Cert. of Educn. awarded, in and after 1951, by the same 9 examining bodies, the Higher Sch. Certs. of 6 of these examining bodies (i.e. Oxford & Cambridge Schs. Exam Bd; Northern Jt. Matric Bd; London Univ.; Oxford Local Exams. Delegacy; Univ. of Cambridge Local Exams. Syndicate, Central Welsh Bd.); inter exam. 1st class, of Indian univs; matric. or other entrance cert. of other approved univs; leaving cert. of educn. depts. or secondary schs. entitling holder to admission to an approved univ.; leaving certs. of educn. depts. of Scotland and Eire; Sr. Cert. of Educn. Dept., N. Ireland; Forces Prelim. exam.; passing-out exam. of Royal Naval Coll., Dartmouth; Hooft-dakte (Holland); eindexdiploma of a gymnasium or hogere burgerschool with 3 yrs' course (Holland); Akte van Bekwaamheid als Hoofdonderwijzer (Holland); dipl. of the Technische Hogeschool (Delft); eindexdiploma of the Middelbare Technische Sch. (Holland); eindexdiploma of the Middelbare (or Koloniale) Landbouwschool (Holland); eindexdiploma, gymnasium, Holland; dipl. of the École Supérieure de Jeunes Filles, Switzerland; abiturient at a gymnasium or oberrealschule in Germany or Switzerland; maturitätszeugnis or zeugnis der reife at gymnasium or oberrealschule in Germany or Switzerland; baccalaurat (Bts Lettres, or Bts Sciences or Ben.Droit and pt.), France; Italian licenza di maturità classica and licenza di maturità scientifica; matric. cert. of the Ministry of Educn. & Culture, Israel; cert. of the 3rd cycle of a Portuguese lyceum; Greek apolytikon.

**Special exemption.** Non-matriculated candidates over the age of 23 who desire to proceed to a degree and are not eligible for exemption under the ordinary regns. may, under certain conditions, be specially exempted from matric. on the recommendation of a univ. Such candidates cannot be admitted to a degree unless they have not only completed the curriculum for the degree but have also fulfilled any other conditions for exemption from the matric. exam.

**FIRST DEGREES.** 3 yrs.—BA (4th yr. for hon. in any of following: archaeol., Bantu lang., classics, compas. African govt & law, econ., Engl. lang. & lit., French, geog., German, Greek, Hebrew, hist., Latin, maths, Netherlands & Africana, philas., psychol., soc. anthropol.), BA (art), BA (music), BSocSc, BSc (pure sci.) (4th yr. for hon. in any of following: astron., bot., chem., geochem., geog., geol., maths, phys., physiol., psychol., zool.), BCom; 4 yrs.—BA(FineArt), BMus, BSc(ChemEng), BSc(Eng), BSc(Land Surv.), 5 yrs.—LLB; 6 yrs.—MB ChB, BArch.

BA pass degree curriculum consists of 9 full courses, 1 from lang. group, 1 from humanities group, 7 from gen. arts group; 3 to be other than courses of the 1st yr.

BSc pass degree curriculum consists of 8 full courses; 4 to be other than courses of the 1st yr., with auxiliaries.

**HIGHER DEGREES.** MA, MArch, MA(FineArt), MSocSc, MSc, MCom, 1 yr.; BEd, 2 yrs., after approved bachelor's degree; MEd, 2 yrs., after approved master's or equivalent degree; MMed (in various specialties), ChM, MD, open to grads. of at least 4 yrs' standing. The MA, MSc, MSc in engin. and MCom courses are open to grads. of any approved univ.; so also are courses for the PhD (open to bachelors of at least 3 yrs' standing), DSc (open to bachelors of at least 5 yrs' standing) and DLitt (open to bachelors of at least 8 yrs' standing, for which attendance for 2 yrs. may be required). The MCom is open to BComs of 2 yrs' standing. The LL.M. is open to LLBs of 2 yrs' standing, the LL.D. is open to LLBs or LL.Ms of 2 yrs' standing.

**HONORARY DEGREES.** Any of the degrees mentioned above may be conferred as honorary degrees.

**DIPLOMA COURSES.** 1 yr.—African govt & law (lower dipl.), analyt. chem., librarianship, nursing, pub. health (postgrad.); 2 yrs.—African govt & law (higher dipl.); 3 yrs.—comm., educn., fine art, music, physiotherapy, speech & drama, soc. sci.; 6 yrs.—archit., quant. surv.

**CERTIFICATE COURSES.** 1 term postgrad.—exploration geochem.; 1 yr. postgrad.—secondary teacher's; 1 yr.—contml. art, fine art, higher primary teacher's, music, soc. work, speech trng.

**OTHER COURSES.** Classes for students in agric., theol. and vet. sci. proposing to graduate in those subjects elsewhere.

**FEEs.** The annual academic fee covers all charges for a student's registration, classes and

labs., ordinary univ. exams., graduation, library, athletics, students' socs. and, in the case of med. students, hosp. fees for clin. instrum. In those degree courses where there is a choice of subjects the fee is charged per course taken. For courses where there is ordinarily no choice of subjects the fee is uniform throughout the normal duration of the course. BA and BSc, R56 p.a. per non-sci. course, max. R192 for a 1st yr. curriculum which incl. only 1st courses; BA(FineArt), R164 p.a.; BSc, R68 p.a. per course, max. R240 for a 1st yr. curriculum which incl. only 1st courses; BArch, R212 p.a. for 4 yrs., R56 for 5th yr., R204 for 6th yr. BEd, R156 p.a.; LLB, for 4th & 5th yr. curriculum, R168 p.a.; MB ChB, 1st yr. as for BSc, and subsequent yrs., R232 p.a.; BMus, R180-R240 p.a.; BCom, R56 p.a. per course, max. R192 for a 1st yr. curriculum which includes only 1st courses; BSc(Eng), BSc(ChemEng), BSc(LandSurv), R212 p.a.; master's degree—arts, R188 over 2 yrs., engin. and sci., R36 p.a. plus addnl. R24 when thesis is submitted; educn., R106 p.a.; archit. and fine art, R80 p.a.; law, R54 p.a.; med., R68 p.a.; doctor's degrees—PhD, R36-R84 p.a.; MD, R68 p.a.; others, R36-R96 p.a.

**ACADEMIC YEAR.** March to Dec., 2 terms of 13 weeks each.

**THE LANGUAGE OF INSTRUCTION** is English.

**'OPEN' ENTRANCE AWARDS.** A Jagger scholp. of the annual value of R400, tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, is offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town.

**'OPEN' POSTGRADUATE AWARDS.** S. A. C. Croll scholp., R600 p.a. for 2 yrs., Smartt Memorial scholp. (in agric.), R700 p.a. for 2 or 3 yrs.

**RESIDENCE.** Fee for bd., residence and laundry, R320 p.a. Fuller Hall (215 women), warden—Mrs. Doris S. Emmett, BA Mawc; Smuts Hall (217 men), warden—Prof. G. H. Menzies, BSc; College House (120 men), warden—W. T. Ferguson, BA Rhodes, MA Med; University House (80 men), warden—Prof. T. W. Price, MA LLB PhD Camb., BA LL.D. S.A., Medical

Residence (80 men), warden—R. L. Forsyth, BA MB ChB, FRCSI, Durekopp (240 men), warden—S. Skewes, PhD Camb., MA BSc; Baxter Hall (198 women), warden—Mrs. Joan H. van den Ende, BSc.

**EXTRA-MURAL STUDIES.** The bd. of extra-mural studies is responsible for the orgn. of vacation courses, week-end conferences, courses corresponding to those given for the W.E.A., extension lectures in town and country, and courses in citizenship and other current topics.

**STUDY LEAVE AND FURLOUGH.** Members of permanent academic staff are eligible for study leave and furlough after each cycle of 6 yrs.' continuous service, i.e. 3 mos. full pay and 3 mos. half pay for either study leave or furlough, and if taken together 6 mos. full pay and 6 mos. half pay.

**STUDENTS' HEALTH SERVICE.** Every student is required to pay an annual fee of R2. Privileges include a full med. exam. each yr. and payment of half of doctor's account up to a max. of R40 p.a. When med. attention is necessary a student may consult any general practitioner.

**APPOINTMENTS BOARD.** A citen. representative of the several facs. assists grads. seeking employment.

**STUDENTS' VISITING LECTURES FUND.** Administered by citen. consisting of students nominated by students' representative council together with reps. of univ. senate. Object: to bring to the univ. visiting lectrs. eminent in their specific fields and capable of providing cultural stimulus through their contacts with students and staff. To pay for travelling and living expenses of the lectrs. and the orgn. and admin. expenses of the citen., all registered students are charged R1 p.a.

**PUBLICATIONS.** Calendar (Dec.), students' rep. council's *Groets Schwar*, *Annals of the Bolus Herbarium*, *Report on Publications and Res. in the Univ., 1957-1959*, *The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols., Messner Miller, Cape Town, 1918); *The S.A. College and the Univ. of Cape Town, 1829-1929*, by Prof. E. A. Walker (Cape Times, 1929).

## THE YEAR 1961

**PRINCIPAL BENEFITATIONS.** Estate of Mrs. Mary F. Brenner, R83,357; Transvaal & O.P.S. Chamber of Mines, R20,000 for promotion of work in geoschem.

(Total value of all benefactions received—R136,933).

**DEVELOPMENT FUND.** A campaign for funds was launched in Feb. 1961, and by Dec. 31, 1961, R1,820,876 had been received in cash and promises. The object of the campaign (organized by Univ. of Cape Town Foundation) is to raise R5,000,000 before the end of 1965. The money will be used to improve existing facilities for

teaching and res. and to fulfil the long-felt need for further development in many fields of study.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: sch. of ballet.

**RETIRESMENTS.** I. G. Mitford Barberton (fine art); L. W. van der Merwe (Nederlands and Afrikaans).

**RESIGNATIONS.** R. Arnold (chem.), apptd. to post in C.S.I.R.O., Melb.; P. J. Barrett (phys.), B. Bronte Stewart (med.), apptd. assoc. prof. of med., N.S.W.; L. R. Heiberg (med. on afr.), apptd. to post at Univ. Coll. for Indians, Durban;

F. G. Hollman (chem.), apptd dir of combined studies, Leeds; A. C. Jordan (Bantu lang.), to post at Calif.; H. W. Kaupholer (engin.), to post at Loughborough Coll. of Technol.; Dairde Levinson (Engl.); H. Liebeck (maths.), to post at N Staffs.; K. E. Machin (engin.), to post at New Br.; Mrs Ada Scheitman (psychol.); R. Sanges (anat.), to chair of anat., Chac.

DEATHS. Mrs Helene Koppes (lectr. in maths.); Gretel Mills (lectr. in speech tlg.).

HONORARY DEGREES *MA*—R. F. Kennedy, formerly chief librarian, Johannesburg Pub Library.

## Statistics

### STUDENT NUMBERS, 1962

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3463	174
Women	1424	424
Total	4887	598

Distribution by Faculties. *Arts*, 1033; *comm.*, 820; *educn*, 226; *engin*, 598; *fine art & archit*, 460; *law*, 133; *med.*, 830; *music*, 624; *sci*, 614; *soc sci*, 147. Total: 5485

Included in the figures above are—

Postgraduate students, 363.

New admissions, 1595.

Students from other countries, 727. (Countries from which largest numbers came: Fed. of Rhodesia & Nyasaland, 626; High Commission Territories, 22; E. Africa, 10).

DIPLOMAS AWARDED (1961) *Arts*. BA, 146; BA hon, 19; MA, 4. *Comm.* BCom, 46; *Educn* BEd, 2; *Engn*: BSc(Eng), 67; BSc (ChemEng), 8; BSc(LandSurv), 6. *Fine art & archit*: BA(FineArt), 4; BA(Arch), 3; BAArch, 26; MA(FineArt), 1; *Law*: LLB, 21; *Med*: MB ChB, 98; MMed, 8; ChM, 2; MD, 6; *Music*: BMus, 1; *Soc. Sci.* BSc, 77; BSc hon, 37; MSc, 3. *See also*: BSocSc, 17; PhD (all facs) - 16.

DIPLOMAS AWARDED (1961) *See* teacher's, 9; *law*, 13; *libr.*, 10; *archit*, 4; *quest. surv.*, 6; *fine art*, 1; *lower dipl* in African admin., 2; *speech & drama*, 4; *teacher's bc dipl* in music, 16; *performer's dipl* in music, 2; *physiotherapy*, 10; *mirring*, 4; *see also*, 2.

CERTIFICATES AWARDED (1961). *See* teacher's, 63; *grad. primary teacher's*, 7; *higher primary teacher's*, 30; *teachers of sp. classes*, 2; *higher cert lib.*, 16; *libr.*, 15; *art. admission*, 7; *comm. art*, 11; *theory of accty*, 32; *speech & drama*, 1; *prim teacher's sp. endorsement in fine art*, 3; *prim teacher's sp. endorsement in speech & drama*, 2; *prim teacher's sp. endorsement in music*, 1; *teacher's cert. in ballet*, 5.

# UNIVERSITY OF NATAL\*

Incorporated 1949; previously established as Natal University College, 1909

## Postal Addresses:

King George V Avenue, Durban, South Africa

(Cables and Telegrams: University Durban; Telephone: 58561)

P.O. Box 375, Pietermaritzburg, South Africa

(Cables and Telegrams: University Pietermaritzburg; Telephone: 2-2385)

CHANCELLOR—HON. D. G. SHIPSTONE, Hon. LL.D.

PRINCIPAL AND VICE-CHANCELLOR—B. G. MALHEIRE, BA Cape, MA Stell, PhD Cal., Hon. LL.D. Camb.,  
Melb., McG. & Cape T.

CHAIRMAN OF COUNCIL—G. G. CAMPBELL, MB ChB LL.D. Edin., FRCS(Ed), Hon. FRSSAF

PRESIDENT OF CONVOCATION—R. N. LEON, QC, BA LL.B. S.A.

REGISTERAR—P. G. LITZ-DU TOIT, BCom S.A.

ACCOUNTANT—A. J. LYLE, BCom S.A.

DIRECTOR OF LIBRARY SERVICES—S. I. MALAN, MA S.A.

## TEACHING STAFF

[Allocated between Durban=D and Pietermaritzburg=P]

[†=Part-Time]

### Accounting and Auditing (D & P)

Fairbairn, W. J. G., FSAA	Prof. (D)
Waldeck, T. J. H., MCom S.A.	Sr. Lectr. (D)
Simons, A. F. S.	Sr. Lectr. (D)
Eggers, H. C., BCom	Sr. Lectr. (D)
Armstrong, J., BCom Natal, FCIS	
	Sr. Lectr. (P)
Shinner, N. L. C., BCom BCom S.A., FSAA	Sr. Lectr. (P)
5 Lectrs.† for professional accty. classes	

### African Studies (D)

Krige, Mrs. Eileen C. B. J., MA DLitt Rand	Prof.
	Sr. Lectr.
Cope, A. T., MA	Sr. Lectr.
Trapido, S., BA Rand	Lectr.
Torres, J. L. R., BA Cape T.	Lectr.
Malcolm, D. McK., Hon. PhD Rand	
	Temp. Lectr.
Mangosela, G. L.	African Lang. Asst.

### Afrikaans and Nederlands (P & D)

Nienaber, G. S., MA MED S.A., LittD Ghent	Prof. (P)
Grobler, P. du P., MA S.A., PhD	Sr. Lectr. (D)
Nienaber, C. J., MA S.A., DoctesLett Aust., DLitt Pret.	Sr. Lectr. (P)

van der Walt, P. D., MA DLitt Potchef

	Sr. Lectr. (D)
Botha, T. J. R., BA Stell., MA Pret.	Lectr. (D)
Nienaber, Mrs. Willemina, LittDra Amsterdam	
	Lectr. (P)
Combrink, J. G. H., BA Rand	Lectr. (P)

### Agriculture, see below

### Architecture and Quantity Surveying (D)

Connell, F. H., BArch Rand	Prof.
Croft, L. T., BArch Lib., DipTP Rand	
	Sr. Lectr.
Dick, C. R. S., BSc(QS) Pret.	Sr. Lectr.
Biermann, B. E., BArch PhD Cape T.	Lectr.
Lewcock, R. B., BArch PhD Cape T.	Lectr.
Brandt, Hope D., BAFineArts S.A.	Lectr.
Dyke-Wells, D. N., BArch Rand	Lectr.
Goldman, G. C., BArch Rand, DipTP Lond.	Lectr.
Theron, J. D., BArch Cape T., MArch Penn.	
	Lectr.
Tollman, E., DipTP Lond., BArch	Lectr.
3 Lectrs.† for professional classes	

### Bantu Language, see African Studies

### Botany (P & D)

Bayer, A. W., DSc S.A.	Prof. (P)
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\* Member of the Association of Universities of the British Commonwealth

Meades, H., PhD Lond. & Natal, MSc	Trotter, G. J., BA	Lectr. (D)
Gordon-Gray, Kathleen, MSc S.A., PhD	Konczak, Z. A. C., BSc(Econ) Lond., BEd	Lectr. (P)
.....	Humphreys, A. S. B., BCom Rand, MA Camb	Sr. Lectr. (D)
Meyn, M. A., BSc S.A.	Cooppan, S., MA MEd PhD Cape T., BCom	Res. Asst. (D)
.....	Smith, E., BCom	Res. Asst. (D)

### Chemistry and Chemistry Technology (P & D)

Warren, F. L., DIC, PhD DSc Lond., FRIC	Schmidt, W. H. O., BA S.A., DrPhil Leip.	Prof. (P)
Schreiner, G. D. L., BSc Rand, PhD Camb	de Villiers, D. Z., MA PhD Cape T.	Sr. Lectr. (D)
Bayles, J. W., DPhil Oxon	Shuels, Mrs. Florence H., BA S.A., MEd Pret	Lectr. (P)
.....		
Candy, H. A., MSc S.A.		
Higgins, T. H. F., BSc Rand, MSc PhD		

### Educational Theory (P & D)

Parris, S., MSc	MacMillan, R. G., BEd MA S.A., BSc PhD Rand	Prof. (P)
Goosen, A., MSc PhD	Hayward, F. J. D., MA Glas., BA BEd	Sr. Lectr. (D)
Verbeek, A. A., MSc	Barrett, A. M., BA S.A., MA Camb.	Sr. Lectr. (P)
Moolwyn-Hughes, J. T., MSc	MacQuarrie, J. W., BA Lond., BEd S.A.	Sr. Lectr. (P)
Hawkesworth, W. A., MSc	Grieve, Christine S., MA Cape T. & Camb.	Temp. Lectr. (P)
Kyle, E., PhD Camb., BSc		

### Child Guidance Clinic (D)

Pechey, B. M., MA S.A.	Dir.
Herbert, M., MA	Asst. Dir.
1 Sec., 5 Res. Assis.	

### Classics (P & D)

.....	Prof. (P)
Fairer, B. H. P., MA S.A. & Oxon.	Sr. Lectr. (P)
Hewitt, W. H., MA Cape T. & Oxon.	Sr. Lectr. (D)
Whitley, S., MA Oxon.	Lectr. (D)

### Commerce and Administration (D)

Kelly, T. H., MCom PhD Brn.	Prof.
Allan, I. K., BCom S.A.	Sr. Lectr.
Woods, I. R., BCom Rand, MCom	Sr. Lectr.
..	Lectr.

### Divinity (P)

Rouks, A. G., DD S.A., CandTheol Berl.	Prof
Bredenkamp, V. J., BA Rhodes, MA Oxon.	Sr. Lectr.

### Drama, see Speech and Drama

### Dutch, see Afrikaans and Nederlands

### Economics (P & D)

Horwood, O. P. F., BCom Cape T.	Tramad, Marie L., Libl. Dipd'EtSup	Prof. (P)
.....	CertSecd'Ang Paris	
Harwitz, N., MCom S.A., DCom Stell.	Lainey, Y. H. R., Dipd'EtSup Paris	Sr. Lectr. (P)
Knox, Joan, BCom Rand	Royle, P., MA Oxon.	Lectr. (P)
Blondeel, E. E. E., BClassPhil	Royle, Elizabeth A., MA Edin., BA	Lectr. (P)
LichandFinWet Antwerp	Ciernki, T., DPhil Wrocław	Lectr. (D)
	a Temp. Lectr.	

### Educational Psychology (P & D)

Schmidt, W. H. O., BA S.A., DrPhil Leip.	Prof. (P)
de Villiers, D. Z., MA PhD Cape T.	Sr. Lectr. (D)
Shuels, Mrs. Florence H., BA S.A., MEd Pret	Lectr. (P)

### Educational Theory (P & D)

MacMillan, R. G., BEd MA S.A., BSc PhD Rand	Prof. (P)
Hayward, F. J. D., MA Glas., BA BEd	Sr. Lectr. (D)
Barrett, A. M., BA S.A., MA Camb.	Sr. Lectr. (P)
MacQuarrie, J. W., BA Lond., BEd S.A.	Sr. Lectr. (P)
Grieve, Christine S., MA Cape T. & Camb.	Temp. Lectr. (P)

### Engineering, see below

### English (P & D)

Gardner, W. H., BA PhD Lond	Prof. (P)
van Heyningen, Christinn, MA Stell., BA Oxon., DLit	Assoc. Prof. (P)
Sands, R., BA Lond.	Assoc. Prof. (D)
Gardner, C. O., MA Oxon., BA	Sr. Lectr. (P)
Bransford, W. R. G., MA Camb., BEd Cape T., PhD	Sr. Lectr. (D)
King, Sarah K., MA S.A.	Sr. Lectr. (D)
Notcutt, Elizabeth E., BA S.A.	Lectr. (D)
Manson, H. W. D., BA Rand	Lectr. (P)
Patterson, Elizabeth, BA S.A. & Camb.	Lectr. (P)
Dent, Margaret S., BA (on leave)	Lectr. (D)
Berthoud, J. A., BA Rand	Lectr. (P)
Hugo, F. J., BA Rand	Lectr. (D)
Superstein, J., BA Rand	Lectr. (D)
Mills, A. R., BA	Lectr. (D)

### Fine Arts (P)

Heath, J. C. W.	Prof.
.....	Sr. Lectr.
Heath, Mrs. Jane T.	Lectr.
Dutchbarn, Mrs. Hilda L., BA S.A.	Lectr.

### French (P & D)

Tramad, Marie L., Libl. Dipd'EtSup	Prof. (P)
CertSecd'Ang Paris	
Lainey, Y. H. R., Dipd'EtSup Paris	Sr. Lectr. (P)
Royle, P., MA Oxon.	Lectr. (P)
Royle, Elizabeth A., MA Edin., BA	Lectr. (P)
Ciernki, T., DPhil Wrocław	Lectr. (D)
a Temp. Lectr.	

**Geography (P & D)**

	Prof (P)
Hobson, Peggie M., BSc Lond, PhD St And.	
	Sr. Lectr. (D)
Williams, O., MA Wofor, PhD	Sr. Lectr. (P)
Davies, R. J., MSc Rhodes, PhD Lond	
	Sr. Lectr. (D)
Daniel, J. B. McL., BA Camb., MA	Lectr. (D)
Tyson, P. D., BSc Rand	Lectr. (P)

**Geology (P & D)**

King, L. C., DSc N Z, PhD S.A., FGS, FRSSAF	Prof. (D)
	Sr. Lectr. (D)
Mathews, P. E., MSc PhD	Sr. Lectr. (D)
McCarthy, M. J., MSc, FGS	Lectr. (D)
Sparrow, G. W. A., BSc Wales, MSc N.E.	Lectr. (P)

**German (P & D)**

Schmidt-Ihms, Maria, DrPhil Leip.	Prof. (P)
Stelau, Hilda I., MA	Lectr. (D)

**History and Political Science (P & D)**

Prestwich, M. F., MA Camb.	Prof. (P)
Horton, J. W., BA Rhodes, BLitt Oxon.	
	Sr. Lectr. (D)
.....	Sr. Lectr. (P)
Webb, C. de B., BA Rand & Camb.	
	Sr. Lectr. (P)
Heard, K. A., MA S.A.	Sr. Lectr. (D)
McIntyre, K. H. C., BA S.A., MA Camb.	
	Sr. Lectr. (D)
Duminy, A. H., MA Rhodes	Lectr. (D)
Le Cordeur, B. A., MA Rhodes	Lectr. (D)
Juts, C. J., BA S.A., MA	Lectr. (P)
Norton, R. A., BA Oxon. & Natal	Lectr. (D)

**Law (P & D)**

Birchell, E. M., MA Camb., LLB S.A.	
	J. S. Wylie Prof. (P)
	Prof. (D)
.....	
Seymour, W. G. M., BA LLB S.A.	
	Sr. Lectr. (P)
Mathews, A. S., BA LLB	Sr. Lectr. (P)
Fain, J. H., BA LLB	Sr. Lectr. (D)
Pape, D. L., BSc S.A., LLB	Lectr. (P)
Shaw, R. G., BA LLB S.A.	Lectr. (D)
Farrer, G. B., BA LLB	Lectr. (D)
5 Lectrs.†	

**Mathematics and Applied Mathematics (D & P)**

Schuddeboom, F. J., PhilCand Ley., MSc Stell.	Prof. (D)
Terpstra, F. J., DSc Amst	Prof. (P)
	Prof. (D)
Skinner, T. N. E., MSc	Sr. Lectr. (D)
Lieberman, E., MSc Rand	Sr. Lectr. (D)
Hull, C. K., MSc S.A., MA Camb.	
	Sr. Lectr. (D)
Nevin, B. M., MA	Sr. Lectr. (P)

Watson, G. R., BSc Mow, MSc	Sr. Lectr. (P)
Hughes, I. P., MSc Rand, DPhil Oxon.	
	Sr. Lectr. (D)
Van der Berg, J. J., MSc Pret.	Lectr. (D)
Scott, Henrietta C., BSc Stell	Lectr. (D)
Phillips, N. C. K., BSc	Lectr. (P)
Whiteley, J. N., BSc Rhodes, PhD Lond	
	Lectr. (P)
....	Lectr. (D)

**Native Administration, see African Studies****Nederlands, see Afrikaans and Nederlands****Philosophy (D & P)**

Jensen, O. C., MA Edin., DPhil Rand	Prof. (D)
Conradie, Anna L., PhD Cape T	Sr. Lectr. (P)
Brummer, V., MA Stell., MTh Harv., DPhil Utrecht	Lectr. (P)
Neser, Margaret, MA Law, BA	Lectr. (D)

**Physics and Experimental Physics (P & D)**

Fairbrother, J. A. V., BSc Lond., PhD R'dg., FIP	Prof. (P)
Claesens, N. D., MSc S.A., MA Camb., PhD	Prof. (D)
Eagle, B. A., BSc S.A., MA Camb.	
	Sr. Lectr. (P)
	Sr. Lectr. (D)
Martin, J. S., DPhil Oxon., MSc	Sr. Lectr. (D)
Scott, H. W., MSc S.A.	Sr. Lectr. (D)
	Sr. Lectr. (D)
Rash, R. E., DPhil Oxon., BSc	Sr. Lectr. (P)
Schoute-Vanneck, C. A., MSc Cape T, PhD S.A.	Sr. Lectr. (D)
Cato, G. C., MA BD Aben'd	Sr. Lectr. (D)
Drives, A. S., MSc Rhodes	Lectr. (P)
Goedeke, W. H., MSc	Lectr. (P)
Muir, M. S., BSc	Lectr. (D)

**Political Science, see Hist. and Pol. Sci****Psychology (P & D)**

.....	Prof. (P)
Albino, R. C., MA S.A.	Sr. Lectr. (D)
Murray, C. O., MA	Sr. Lectr. (D)
Cowley, J. J., MSc	Sr. Lectr. (P)
Paulds, B. D., PhD Pret., BSc BEd	Lectr. (P)
Mason, J. W., BA Rhodes, BSc Oxon., MA S.A., PhD	Lectr. (D)
Rutherford-Smith, R. O. B., MA S.A.	Lectr. (P)

**Social Anthropology, see African Studies****Sociology and Social Work (D)**

.....	Prof.
Shaw, Frances C., MSW McG., BA (SS)	
	Sr. Lectr.
Dicke-Clark, H. F., BA Rhodes	Sr. Lectr.
Waldeck, Martha H., BA (SS) S.A.	Lectr.
Currin, Theresa E., BSocSc	Lectr.

**Speech and Drama (D & P)**

Sneddon, Elizabeth, MA Glas	Prof (D)
Wilson, Mrs Joan	Sr Lectr
Schultz, P., BA	Lectr (D)
Barnford, Rosemary A., BA	Lectr (D)
Orton, R., BA	Lectr (P)
Glover, Paulette, BA	Lectr (D)
	Ir Lectr (D)

Muller, E.-R., BScAgric	Lectr
Du Toit, P. S., BScAgric	Lectr.

**Dairy Industry**

Abbott, C. W., BScAgric Pret, MSc PhD Iowa State	Prof.
Stiles, M. E., MScAgric	Lectr.
Hinch, Helen, BScAgric Nott	Lectr

**Surveying (D)**

Biesheuvel, H., BSc(Surv) Cape T.	Prof.
Seoganga, D. A., BScSur	Sr. Lectr.
McMann, P. E., DipArch DipTP Edin.	
	Sr. Lectr.
Jones, B. M., MScSur	Sr. Lectr
Simpson, K. W., BSc(Surv) Cape T.	Lectr.

**Entomology**

Oosthuizen, M. J., BScAgric S. A., PhD Maud	Prof
Boorman, T., BScAgric Pret, DIC, PhD Lond	Sr. Lectr.
Fletcher, D. J., BScAgric	Lectr

**Genetics**

Weyers, W. H., MScAgric Stell., PhD Wits	Prof.
Gildenhuys, P. J., MSc S. A., PhD	Sr Lectr.

**Horticulture and Forestry**

le Roux, J. C., BScAgric Stell., MSc Calif. & Hawaii	Prof.
Allan, P., BScAgric PhD	Sr. Lectr.
Wolstenholme, B. N., BScAgric	Lectr.

**Plant Pathology and Microbiology**

Truter, Susannah J., BSc S.A., MSc Stell., DSc Utrecht	Prof.
Heubult, J. E. W., PhD Main	Sr. Lectr
Martin, M. M., BCom BScAgric	Lectr.
Howell, M. J., BScAgric	Lectr

**Soil Conservation and Pasture Management**

Scott, J. D., MSc S. A., DSc Rand	Prof.
Booyers, P. de V., MScAgric	Sr. Lectr.
Tainton, N. M., MScAgric	Lectr
De Jager, J. M., MSc Cape T.	Lectr

**Soil Science**

Orchard, E. R., MBE, BScAgric Stell., PhD Lond	Prof.
Sumner, M. E., DPhil Oxon., MScAgric	Sr Lectr
De Vilhena, J. M., BScAgric	Lectr

**ENGINEERING (D)****Architecture and Quantity Surveying,  
see above****Chemical Engineering**

Woodburn, E. T., BSc Cape T	Prof.
Egones, R. J. J., BScChemTech	Sr Lectr
Morris, R. M., MScChemTech	Lectr.

**Civil Engineering**

Daymond, J. R., TD, MSc Wale, MICE	Prof.
Nordman, D. G., MScEng S. A.	Sr Lectr.
Ventresca, R. C., BSc(Eng) Lond.	Sr. Lectr

**AGRICULTURE (P)****Agricultural Economics**

Behrmann, H. J., BScAgric Pret., PhD	Prof.
	Sr. Lectr.
Kassier, W. E., DiAgr L II Stuttgart, MScAgric	Lectr

**Agricultural Engineering**

Vorsten, P. J. C., DIC, BScAgricEng Pret.	Prof.
Meiring, P., BScAgricEng Pret.	Sr. Lectr.
Burney, J. R., BScEng	Lectr

**Agronomy**

Hulme, S. A., MScAgric Stell	Prof
Nathanson, K., BScAgric Pret	Sr. Lectr.
Kritzenberg, J. H., BScAgric Stell.	Lectr.

**Animal Husbandry, Poultry Husbandry  
and Animal Diseases**

Kotze, P. L., BScAgric Stell., MScAgric Pret	Prof.
Robhop, G. P., BVSc Pret	Sr Lectr.
Wessels, J. P. H., BScAgric Pret., MScAgric	Sr Lectr.
Hunter, G. L., PhD Comb., BScAgric	Sr. Lectr.
Stuelas, W. J., MScAgric	Lectr.
Humm, J. B. B., MScAgric Pret.	Lectr.

**Biochemistry**

Quicke, G. V., MScAgric Pret, PhD Wits	Prof.
de Wit, J. L., MSc Pret., DSc Utrecht	Sr. Lectr.
Hall, M. O., PhD Calif., BScAgric	Lectr.

**Biometry**

Rayner, A. A., MA NZ., PhD Edin.	Prof.
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**Psychological Medicine**

Khan, S., BA MB ChB Cape T.  
 ↑Hon. Clin. Lectr.  
 Archer, B. W. C., ChB MD St. And.  
 ↑Si. Clin. Lectr.  
 Cheetham, R. W. S., MA PhD MB  
 ChB Cape T.  
 ↑Clin. Tutor

Hoek, W. J., BSc  
 1 Sec., 5 Assts.  
 Asst. Res. Officer

**INSTITUTE FOR SOCIAL RESEARCH (D)**

1 Sec., 1 Res. Asst.  
 Dir.

**Radiology**

Sacks, N., MA Cape T., DMR Lond.  
 ↑Hon. So. Lectr.  
 Holmes, H. R., MD BS Lond., FFR  
 ↑Hon. Lectr.

**SUGAR MILLING RESEARCH****INSTITUTE (D)**

Douwes Dekker, K., PhD Utrecht  
 Dir.  
 Park, G. M., IngCh Amst.

**Surgery**

Chapman, D. S., MS Durb., FRCS  
 Grant-Whyte, H. L., BA MB ChB Cape T.,  
 FFARCS  
 ↑Prof.  
 Mowse, S., MB BCh Rand., FRCS  
 Sr. Lectr.  
 van Rensburg, M. J., MB BCh Rand.  
 Lectr.  
 Radford, A., MB ChB Edin., FRCS  
 ↑Hon. Clin. Lectr.  
 Barnat, L., MB BCh Rand., FRCS  
 ↑Hon. Clin. Lectr.  
 Bishop, B. W. F., MB ChB Cape T.,  
 FRCSed  
 ↑Hon. Clin. Lectr.  
 Jeubert, M., FRCS  
 ↑Hon. Clin. Lectr.  
 Sweetapple, A. G., MB BS Syd.,  
 FRCSed  
 ↑Hon. Clin. Lectr.  
 Gowans, R., MB ChB Glas., FRCSed  
 ↑Sr. Clin. Lectr.  
 Edmunds, T.  
 ↑Sr. Clin. Lectr.  
 Raftery, J. D., BSc Rand., DPhil Oxon.,  
 FRCS  
 ↑Sr. Clin. Lectr.

**↑Clinical Lecturers**

Goldberg, L., MB ChB Edin., FRCSed  
 Leonard, F. R., MB ChB N.Z., FRCS  
 Were, G. L., MB ChB Aberd., FFARCS

**↑Clinical Tutors**

Bailes, A., MB BCh Rand., FRCSed  
 Cuthbert, A. D., MB ChB Glas., FRCSed  
 Bouille, J. R., MB ChB Cape T., FRCSed  
 Lurie, A., MB ChB Cape T., FRCSed  
 Stange, J. L., BSc MB ChB Waite, FRCSed  
 Hedden, F. J., BSc MB ChB Waite, FRCSed  
 Allen, A. L., BSc MB BCh Rand., FRCSed  
 Barker, E. M., MB BCh Rand., FRCS  
 Meaham, P. R., MB ChB Cape T., FFARCS  
 Immermann, G., MB ChB Cape T.

**PAINT RESEARCH INSTITUTE (D)**

Hamilton, G. M., MSc Lond.  
 Dir.  
 Milner, A. M., MSc PhD  
 (Phys. Chem. & Analyt. Sect.) Sr. Res.  
 Officer  
 Moreton, T. G.  
 Res. Officer  
 Nel, P. E., BSc  
 Asst. Res. Officer

Chief Sugar Technologist  
 Brujn, J., IngCh T.H. Delft  
 Sr. Res. Officer  
 Graham, W. S., BSc PhD Belg.  
 Sr. Res. Officer  
 Steyn, P. J., MSc O.F.S.  
 Sr. Res. Officer  
 de Roos, R., IngCh T.H. Delft  
 Res. Officer  
 MacMillan, R. F. G., MSc  
 Asst. Res. Officer  
 Van Hengel, A., IngCh Dordrecht  
 Sr. Tech. Officer  
 Buck, W. R., BSc Eng.  
 Sr. Tech. Officer  
 Buchanan, E. J., BSc Chem. Eng.  
 Tech. Officer  
 Bowles, Roma E., BSc  
 Asst. Tech. Officer  
 Glendinning, Lynn, BS  
 Asst. Tech. Officer

Smedley, Louise, BSc  
 Asst. Tech. Officer  
 Wright, Mrs. Brenda F.  
 Scientific Asst.  
 1 Instrument Maker, 1 Sec., 1 Typist,  
 2 Workshop Assts.

**OCEANOGRAPHIC RESEARCH****INSTITUTE (D)**

Davies, D. H., MSc PhD Cape T.  
 Dir.  
 D'Aubrey, Jeanette, BSc  
 Asst. Res. Officer  
 Goddyn, Miss Hennie, BSc  
 Asst. Res. Officer  
 Ahrens, Rene, BSc  
 Asst. Res. Officer  
 1 Sr. Technician, 1 Admin. Asst.

**WATTLE RESEARCH INSTITUTE (P)**

Shaw, H., MScTech PhD Mow., FRIC  
 Dir.  
 Martin, W. S., DIC, DSc PhD Lond.  
 Soil Chemist  
 Moffett, A. A., BSc Birm., PhD Lond.  
 Geneticist  
 Nixon, Kathleen, MSc  
 Asst. Geneticist  
 Sherry, S. P., BSc S.A., MA Oxon.  
 Silviculturist  
 Atkins, R. F. J. P., BScFor Stoll.  
 Asst. Silviculturist  
 Schöns, A. P. G., LandbIr Wageningen  
 Asst. Silviculturist  
 Asst. Entomologist  
 Biometician

Zeylensman, F. C. J., DSc Amst.  
 Plant Physiologist  
 Jones, R. A.  
 Chemist  
 Wolmann, G. B., BSc  
 Tech. Officer  
 1 Sec., 5 Jr. Tech. Assts.

## ADMINISTRATIVE AND OTHER STAFF

**LIBRARY LIBRARIAN (Pietermaritzburg):** R. A. Brown, MA Oxon. Dep. Librarian (Durban): L. Milburn, BA Lond., FLA.

**STUDENT ADVISER AND EMPLOYMENT OFFICER:** O. F. Black, BSc Stell., MA PhD Cal.

**NON-EUROPEAN SECTION (Organizer):** I. Allen, BCom S.A.

**WARDENS OF RESIDENCES:** Pietermaritzburg: W. J. O'Brien (men), O. Williams, MA Water, PhD; Eleanor Russell Hall (women), Mrs

Margaret B. Kerwood (Durban); Ansell May Hall (men), T. H. Kelly, MCom PhD Brou, Townley Williams Hall (men); Louis Botha Hall (men), J. R. Daymond, TD, MSc Wales, MICE; Charles James Hall (women), Elizabeth Sneddon, MA Glas., Ernest Jansen Hall (men), . . . . .; Florence Powell Hall (women), . . . . .; Alan Taylor Residence, H. F. Duckie-Clark, BA Rhodes.

**SURFS OF GROUNDS AND BUILDINGS:** W. G. Vorster (Durban), A. J. Aylott (Pietermaritzburg).

## GENERAL INFORMATION

Established by an act of 1909, Natal Univ. Coll. was opened in 1910 in the town hall and moved in 1912 to its own bldg. in the suburb of Scottsville, Pietermaritzburg. A new sci. block and a women's hall of residence were added in 1921 and a residence for men in 1928. A new wing was added in 1934 and a library and fine arts sch. in 1936. In 1926, a site of 50 acres at Stellawood, Durban, was presented by the corporation of the city of Durban, for the erection of an engin. coll., and £30,000 was donated by Mr. T. B. Davis in 1924 for this purpose. Howard Coll., as it is called to-day, was opened in Durban in 1931. A new comm. bldg., situated on a central site in the city of Durban, was added in 1936. 6 halls of residence in Durban and a hall of residence in Pietermaritzburg and tuition bldg., have been erected at a cost of over R7 million since 1945. By virtue of Act no. 4 of 1948, the Natal Univ. Coll. was incorporated as the Univ. of Natal. It came into legal existence as an independent univ. on March 15, 1949, and, in addn. to fulfilling its previous functions, is now entitled to examine its own students and grant degrees and dipl.

**CONSTITUTION:** The univ. consists of the chancellor, vice-chancellor, principal, council, senate and convocation; the profs, lectrs. and other teachers; the deans, or hds. of res. insts. controlled by the council; and the students of the univ. The chancellor, elected by the council, is hd. of the univ., and as such is empowered, in the name of the univ., to confer all degrees. The chief academic and admin. officer of the univ. is the principal, who is ex officio a member of the council and chairman of the senate. The council, which elects its own chairman, is the governing body of the univ. and administers its affairs and property.

**INCOME (1961).** Total income, R1,782,813 (govt. grant, 71.3 per cent.; annual grants from public bodies, 1.9 per cent.; interest on investments, rent received & sundry income, 1.3 per cent.; fees, 25.3 per cent.)

**FACULTIES AND DEANS:** Agric., Prof. G. V. Quiche (biochem.); arts, Prof. W. H. Gaudner (Engl.); comm. & pub. admin., Prof. T. H. Kelly

(comm.), educh., Prof. R. G. MacMillan, engin., Prof. P. H. Connell (archit.); law, Prof. E. M. Burchell; med., Prof. I. Gordon (pathol. & forensic med.); sci., Prof. F. L. Warren (chem.), soc. sci., Prof. Eileen C. B. J. King (African studies).

**LOCATION.** The univ. is the only univ. inst. in S. Africa which functions in two large cities, viz. Pietermaritzburg and Durban. These cities are 56 mls. apart. One council and one senate control the univ. as a whole, and meetings are held in alternate centres. A certain amount of duplication of work in both centres is inevitable. The fcs. of arts (and dept. of fine arts), sci., law, educn. and agric. function in Pietermaritzburg. In Durban, the fcs. of arts, med. and sci. (with limited choice of subjects), law, engin., comm. & pub. admin., soc. sci. and dept. of archit. function.

**LIBRARIES:** 150,000 vols. incl. 60,000 in univ. libr. at Pietermaritzburg, 60,000 in univ. libr. at Durban, 12,000 in libr. of non-European section, 7000 in med. libr., 6000 in agric. libr. and further collections in Wattle, Paint and Sugar res. insts. Sp. collections incl. Powell collection of early engin. and sci., Powell cancer res. libr. and Webb collection of works by Africans and negroes.

**TRAINING HOSPITAL (non-European med. students):** King Edward VIII Hosp. MEYACK BENNETT CHILDREN'S CENTRE. NATAL AGRIC. RES. INST. (of which the fac. of agric. is a part).

**ADMISSION:** See p. 1456. Students who are not qualified, or who do not desire, to take a regular course may be admitted to individual classes, provided the prof. or lectr. concerned is satisfied that they are competent to profit by the instruction given. Students who have S.A. Jr. Metric Bd. sch. leaving certs. may, in certain cases, obtain conditional exemption from the metric exam. which would entitle them to enrol for degree courses.

**FIRST DEGREES:** BA, BSc, BCom, BEcon, BSocSc—3 yrs. BAFineArts, BScEng (civil, electr., mech., agric., chem.), BScSur, BScAgric—4 yrs. BArch, BScQS—5 yrs. MB ChB—7 yrs.

**HIGHER DEGREES:** PhD—at least a yrs. after first degree, LLB—not less than 3 yrs. after first

degree. BA hons (in one of: Greek, Latin, classics, Afrikaans-Nederlands, Engl., French, German, mod. lang., philos., maths., hist., geog., pol. sci., econ., psychol., African studies, soc. sci., fine art, div.), BA Fine Arts (hons.), BSc hons (in one of: maths., appl. maths., phys., chem., bot., zool., geol., geog., psychol.), BSc (ChemTech), BCom (hons.), BEcon (hons.), BScEcon (hons.), MScAgric, MScEng, MScEcon, MScMed—not less than 1 yr. after corresp. bachelor's degree MA, MA Fine Arts, MSc, MSc (ChemTech), LL.M., MCom, MEcon, MScEcon, MArch—not less than 2 yrs from corresp. bachelor's degree PhD—not less than 3 or 4 yrs (according to fac.) after bachelor's degree. DScAgric—not less than 5 yrs after BScAgric. DLitt (DLitt in fac. of educ.—5 yrs from BEd), LL.D., DSc, DEcon, DScEcon, DScEng—not less than 6 yrs after corresp. bachelor's degree DArch—not less than 7 yrs after BArch.

**DIPLOMAS** Postgrad. univ. educ. dipl. (grad.), soc. work, play production, 1 yr.; speech therapy (logopedics), 2 yrs.; photogrammetry, 1 yr. (full-time), 2 yrs (pt-time); town planning, 3 yrs. Others univ. educ. dipl. (non-grad.), 1 yr.; archit., 5 yrs.

**CERTIFICATES** Remedial educ., 1 yr.; theory of accty., 4 yrs.; Natal law cert., 3 yrs.; archit., 5 yrs.; Natal pub. service lwr., 3 yrs.

**NON-EUROPEAN SECTION.** Non-European students can study for degrees in the facs of arts, comm., educ., law, med and soc sci., and for the dipl. in play production, univ. educ. dipl. and cert. in remedial educ.

**TERMS.** 2 terms—end Feb.—end June, beginning Aug.—end Nov.

**LANGUAGE OF INSTRUCTION.** English.

**GRADUATES' ASSOCIATION.** Before 1949 the chief assocn. of grads. was Natal Univ. Coll. union. With the attainment by the coll. of univ. status, the functions of the union have developed upon convocation.

**FEEs (inclusive).** Tuition (for 1st-yr. courses) + alts, fine arts, comm., law, soc. sci., R166; agric., sci., archit., engin., quant. surv., surveying, R186; med. (non-European only), R181 for each of the

2 pre-med yrs, R151 p.a. for subsequent yrs. In subsequent yrs. of study other than 1st yr. for all facs except med, sci., law, engin., a reduction of from R10 to R30 is granted. Residence fees, R254 p.a.

**STUDENT ORGANIZATIONS.** The athletic union, which functions in both seats of the univ., is the chief student orgn., exercising control over the activities and finances of the various sporting clubs in each centre. There is also a pt. athletic union orgn. which concerns itself mainly with sporting tours undertaken by univ. clubs. Information concerning the various student socs, clubs and others, is issued by the students' representative council in each centre. The S.R.C. is the body elected to deal with all student affairs and is the students' official avenue of approach to the authorities of the univ.

**RESIDENCE** (For wardens, see 'Admin. and other Staff', above). Students are normally expected to reside at one of the residences unless living with their parents. *Europeans:* W. J. O'Brien (men), Pietermaritzburg (tel. 2-6778), accomm. for 350. Esmar Russell Hall (women), Pietermaritzburg (tel. 2-6848), 170. Ansell May Hall (men), Princess Alice Ave., Durban (tel. 5-7998), 148. Townley Williams Hall (men), Durban (tel. 5-7993), 94. Charles James Hall (women), Princess Alice Ave., Durban (tel. 5-7988), 62. Louis Botha Hall (men), Princess Alice Ave., Durban (tel. 57774). Florence Powell Hall (women), Princess Alice Ave., Durban (tel. 51775). Ernest Jansen Hall (men), Princess Alice Ave., Durban (tel. 37994). *Non-Europeans:* Alan Taylor Residence (men), Durban (tel. 87-7400), 60.

A STUDENT ADVISORY SERVICE has been established to help students to solve their many problems—personal, social, academic, financial, vocational, etc. An APPOINTMENTS AND EMPLOYMENT BUREAU exists to obtain suitable appts. for grads. and pt-time and vacation employment for students.

**PUBLICATIONS** *Calendar* (Dec.), 106; staff publn., *Theoria*, 28, 6d.; students' newspaper, *NUX*, 3d.; *Dome*; *Ums. of Natal Gazette*

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS** Bldgs. completed: chem. bldg., Pietermaritzburg; chem. bldg., Durban; extension admin. bldg., Durban; women's residence, Pietermaritzburg; students' union, Pietermaritzburg.

**RETIRES.** Mrs. Florence M. MacDonald (Engl.).

**RESIGNATIONS.** J. R. Bull (chem. pathol.); E. W. Chaudler (archit.); A. J. C. Copeland (law); S. E. Cruise (maths.); A. R. C. de Crespiigny (pol. sci.); Prof. G. H. Durrant

(Engl.); R. A. Forsyth (Engl.); Dr. Kathleen Hall (soc. work); J. Hood-Williams (psychol.); R. T. Jones (Engl.); Dr. C. J. Jooste (social); Volume I Jund (naive admin.); Prof. A. E. Kark (surg.); Dr. J. W. King (phys.); A. Kolczynski (law); Dr. N. M. Lamont (med); I. Leeman (law); Dr. O. A. M. Lewis (bot.); R. T. McKinnell (econ.); S. M. A. Moggi (maths.); G. B. Neme (hist.); Mrs. Jennifer M. Nevin (maths.); D. O. Poole (electr. engin.); Prof. H. Rund (maths.); Dr. A. S. van Coller (sr. psychiatrist/sr. clin. lectr.); Prof. R. F. E.

van den Borgh (maths); Dr. F. G. Willeboordse (chem); Dr. L. M. Young (hist).

DEATHS W. J. Allen (sr technician, mech engn., Durban).

HONORARY DEGREES *PhD*—Prof. J. H. Neel, formerly prof. of mech engn. *DLitt*—Prof. W. M. MacMillan, formerly actg prof. of hist, U.C. of W. Indies *LLD*—Prof. J. P. Duminy, principal & vice-chancellor, Cape T.

#### Statistics

##### STUDENT NUMBERS, 1962

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1855	1223
Women . .	661	175
Total . . .	2516	1398

Distribution by Faculties *Agric.*, 256; *arts*, 1266; *comm.*, 633; *educn.*, 162; *engin.*, 578;

*law*, 131; *med.*, 237; *sci.*, 575; *soc. sci.*, 82. Total: 3914.

Included in the figures above are —

Postgraduate students, 570.

New admissions, 1186.

Students from other countries, 295 (Country from which largest number came: Fed. of Rhodesia & Nyasaland, 209).

DEGREES AWARDED (1962). *Agric.* BSc(Agric), 39; MSc(Agric), 8; PhD(Agric), 1. *Arts*: BA, 188; BA hons., 29; MA, 7; BAFineArts hons., 1. *Comm.*: BCom, 23; BCom hons., 2; BEcon, 7. *Engn.*: BScEng, 64; MScEng, 3; PhDEng, 1; BScSur, 3; BArch, 10; BScQS, 2. *Educn.*: BED, 2; PhDEd, 2. *Law*: LLB, 12. *Med.*: MB ChB, 18. *Sci.*: BSc, 72; BSc hons., 34; MSc, 16; PhD, 3. *Soc. sci.*: BSocSc, 5; BSocSc(SW), 5; BSocSc hons., 1; MSocSc, 2.

# UNIVERSITY OF THE ORANGE FREE STATE\*

Founded 1950, previously established as Grey University College, 1904

Postal Address: P.O. Box 330, Bloemfontein, Orange Free State, South Africa

Cables and Telegrams: UOFS, Bloemfontein

Telephone: 81101

CHANCELLOR—C. R. SWART, BA LLB Hon. LLD, State President

CHAIRMAN OF COUNCIL—S. J. NAUDE

RECTOR AND VICE-CHANCELLOR—Professor P. W. G. GROENWOUDE, MSc S.A., DPhil Oxon.

REGISTRAR—G. P. J. DU TOIT, BCom BA LLB S.A., BAdmin

LIBRARIAN—F. J. POTGIETER, BCom DiplLibr Pret.

## TEACHING STAFF

Accounting and Auditing		Architecture and Quantity Surveying	
Faul, M. A., BEd BCom Potchef.	Prof.	Oellermann, R. A., MScAgric Natal	Lectr.
van Nickerk, A. F., MCom	Sr. Lectr.	Nel, J. J. C., MScAgric Stell.	Lectr.
Botha, C. J., BCom Pret	Lectr.	Du Toit, A. J. L., BScAgric Pret.	Lectr.
		Benson, R. P., BScAgric Natal, MS Iowa	Lectr.
Afrikaans and Dutch		Bantu Languages, Ethnology and Bantu Administration	
Kok, B., MA DLitt S.A.	Prof.	Lay, G. Q., BA Lond, DArch Rand	Prof.
Badenhorst, W. J., DLitt Pret., MA S.A.	Prof.	Mnien, W. H., BSc(QS)	Sr. Lectr.
Beukes, G. J., DLitt Pret., MA S.A.	Prof.	Eksteen, M. C., BAuch Pret	Lectr.
van Rensburg, F. I. J., MA S.A., DLitt	Sr. Lectr.	Mouton, J. P., DipArch Rand	Lectr.
Agriculture		Botany	
Coetzee, W. H. K., MSc Stell., PhD Cape	Prof.	Language, F. J., DPhil Stell.	Prof.
Nel, J. A., MScAgric Stell.	Prof.	van der Westhuizen, S. B., MA Stell.	Sr. Lectr.
Hofmeyr, J. H., DScAgric Stell.	Prof.		
Clanssens, J. W., BScAgric Pret., MScAgric Natal	Prof.	Chemistry, Organic and General	
Burger, R. du T., MSc Stell., PhD Aberd.	Prof.	Bank, C. v. d. M., MSc Stell., DSc Pret.	Prof.
Hartwig, E. K., DSc Pret.	Prof.	Brunsmacher, S. W. D., MSc Pret	Lectr.
Ekoff, G., MA S.A., DSc Grau.	Prof.		
De Villiers, G. D. B., DSc Stell.	Prof.	Chemistry, Physical and Applied	
Luttrell, H. C., DScAgric Pret.	Prof.	Boh, L. D. C., MSc Stell., DIC, DrRerNat	Prof.
Cronje, P. J., DScAgric Stell.	Sr. Lectr.	Lep.	Sr. Lectr.
Viljoen, W. C. J., BScAgric Pret.	Sr. Lectr.		
Barric, N., BVSc Pret.	Sr. Lectr.	Classics and Classical Culture	
Olivier, I. M., MScAgric Stell.	Sr. Lectr.	van Rooy, C. A., MA S.A. & Oxon.	Prof.
Paget, J. E. H., MSc Stell.	Sr. Lectr.	DLitt	Prof.
Le Roux, P. L., MSc Pret., PhD Leeds	Sr. Lectr.		
Pruer, G. D., MScAgric Pret.	Sr. Lectr.		
Kotze, H. A., MScAgric Pret.	Sr. Lectr.		
Potgieter, H. J., MSc	Sr. Lectr.		
Human, J. J., MScAgric Pret.	Sr. Lectr.		
Heyns, H., MSc Stell.	Lectr.		
Roberts, B. R., MScAgric Natal	Lectr.		
Stanton, D. A., MScAgric Natal	Lectr.		

\* Member of the Association of Universities of the British Commonwealth

<b>Lowy, J. P.,</b> DLitt <i>Prof.</i>	<b>Lectr.</b>	<b>Musie</b>	
<b>Henderson, W.,</b> BA <i>Stell.</i>	<b>Lectr.</b>	<b>Quislo, L.</b>	<b>Prof.</b>
<b>Commerce</b>		<b>van der Merwe, F.,</b> BMus <i>Rand</i>	
<b>Fourie, F. C. v. N.,</b> BA BCom <i>Cape</i>	<b>Prof.</b>	(Singing) <i>St. Lectr.</i>	
<b>Stockenström, F. F. de W.,</b> BCom <i>Stell.</i>	<b>Lectr.</b>	<b>Koole, A. J. C.,</b> DiplKons DLitt&Phil <i>Aust.</i>	
<b>Bordei, T. G.,</b> MCom	<b>Lectr.</b>	<b>FTCL</b>	<b>Sr. Lectr.</b>
<b>Economics and Economic History</b>		<b>Philosophy</b>	
<b>du Plessis, C. v. H.,</b> MA <i>Stell.</i> , MSc <i>Mown.</i>	<b>Prof.</b>	<b>Venter, E. A.,</b> MTh <i>Stell.</i> , MA MDiv DD	
<b>DPhil <i>Prof.</i></b>		<b>DPhil S.A., PhD <i>Cape</i></b>	<b>Prof.</b>
<b>Terreblanche, S. J.,</b> MA <i>Stell.</i>	<b>Sr Lectr.</b>	<b>Kock, P. de B.,</b> DPhil	<b>Lectr</b>
<b>Education, see Teachers' College, below</b>		<b>Physical Education</b>	
<b>English</b>		<b>van der Merwe, I. R.,</b> BA MEd <i>Aust.</i>	
<b>Wahl, J. R.,</b> DPhil <i>Cape &amp; Oxon.</i>	<b>Prof.</b>	<b>DEd S.A.</b>	<b>Sr. Lectr.</b>
<b>Moeter, C. W.,</b> BA S.A., MA	<b>Sr. Lectr</b>	<b>Genca, Shirley,</b> BA <i>Stell.</i>	<b>Lectr.</b>
<b>Ferreira, I. S.,</b> MEd MA	<b>Lectr.</b>	<b>Brusdw, A. V.,</b> BPed <i>BE</i>	<b>Lectr.</b>
<b>Geography</b>		<b>Physics</b>	
<b>Schmidt, A. A.,</b> MA <i>Stell</i>	<b>Prof.</b>	<b>Alberts, L.,</b> DSc	<b>Prof</b>
<b>Coetzee, J. A.,</b> MA <i>Stell</i>	<b>Lectr.</b>	<b>Laurens, J. A. J.,</b> DPhil <i>Oxon.</i> , MSc	<b>Sr. Lectr.</b>
<b>Geology</b>		<b>Viljoen, P. E.,</b> MSc	<b>Lectr</b>
<b>De Villiers, J. E.,</b> PhD S.A., DSc <i>Stell.</i>	<b>Prof.</b>	<b>Political Science</b>	
<b>Engelbrecht, C. K.,</b> MSc	<b>Lectr.</b>	<b>Strauss, H. J.,</b> BA S.A., DoctJur <i>V.U.Aust.</i>	<b>Prof.</b>
<b>German and French</b>		<b>Wessels, F. J. H.,</b> DPhil	<b>Sr. Lectr.</b>
<b>Dekker, J. J.,</b> DrPhil <i>Vienne</i> , MA S.A.	<b>Prof.</b>	<b>Psychology</b>	
<b>Lichtenburg, K. F. W.,</b> MA DPhil <i>Bas.</i>	<b>Lectr.</b>	<b>Kriel, R. G.,</b> MSc <i>Potchef.</i> , MEd	
<b>Meiring, E. G.,</b> BA <i>Prof.</i>	<b>Lectr.</b>	<b>DPhil <i>Stell.</i></b>	<b>Prof</b>
<b>Hebrew</b>		<b>Schmidt, C. H.,</b> MA <i>Stell.</i> , BLitt <i>Oxon.</i>	<b>Prof.</b>
<b>Munrogh, L. M.,</b> MA <i>Stell.</i>	<b>Lectr</b>	<b>Erasmus, C. F. J.,</b> MA	<b>Lectr.</b>
<b>History</b>		<b>Public Administration</b>	
<b>Uys, C. J.,</b> DLitt <i>Prof.</i> , MA S.A.	<b>Prof.</b>	<b>Fourie, P. C.,</b> MAdm <i>Prof.</i>	<b>Sr. Lectr.</b>
<b>Oberholster, J. J.,</b> MA DPhil <i>Stell.</i>	<b>Sr Lectr.</b>	<b>Sociology and Social Work</b>	
<b>Van Schoor, M. C. R.,</b> MA MEd	<b>Sr. Lectr</b>	<b>Keytes, J. de W.,</b> MA BEd <i>Stell.</i> , DPhil <i>Mün</i>	<b>Prof</b>
<b>Moh, J. G.,</b> MA	<b>Lectr.</b>	<b>Vooster, H. R.,</b> MA DPhil S.A.	<b>Sr. Lectr.</b>
<b>Hygiene</b>		<b>van Rensburg, W. J. J.,</b> MA S.A.	<b>Sr Lectr.</b>
<b>van der Merwe, I. R.,</b> BA MEd <i>Aust.</i>	<b>Prof.</b>	<b>Vrey, W.,</b> BA	<b>Lectr.</b>
<b>DEd S.A.</b>		<b>Le Roux, Anna W.,</b> BA(SS)	<b>Lectr.</b>
<b>Law</b>		<b>Statistics and Finance</b>	
<b>Van Rhyen, J. N. R.,</b> LLB	<b>Sr Lectr.</b>	<b>Reitsma, A.,</b> MSc S.A.	<b>Sr. Lectr.</b>
<b>Van Tonder, S. I. E.,</b> BA LLB	<b>Sr Lectr.</b>	<b>Oosthuizen, J. H.,</b> MSc	<b>Lectr.</b>
<b>Van der Westhuizen, H. J.,</b> BA LLB	<b>Sr. Lectr.</b>	<b>Zoology</b>	
<b>Mathematics, Pure and Applied</b>		<b>De Wit, J. J. D.,</b> PhilNatD <i>Utrecht</i>	<b>Prof</b>
<b>Malen, A. P.,</b> MSc S.A.	<b>Prof.</b>	<b>van Pletzen, R.,</b> DSc <i>Stell</i>	<b>Sr. Lectr.</b>
<b>van Wyk, C. B.,</b> MSc <i>Stell.</i> , PhD <i>Cant</i>	<b>Prof.</b>	<b>Dreyer, Marin V.,</b> BSc S.A., MSc	<b>Lectr.</b>
<b>Eloff, C. L.,</b> MSc	<b>Sr. Lectr.</b>	<b>TEACHERS' COLLEGE</b>	
	<b>Lectr.</b>	<b>of the University of the O.F.S.</b>	
		<b>Loubser, Prof. J. W.,</b> MA <i>Oxon.</i> , BEd	<b>Principal</b>
		<b>Jooste, A. J. C.,</b> BA BCom	<b>Vice-Principal</b>
		<b>Blignault, Prof. H.,</b> BA <i>DEd <i>Stell.</i></i>	
			<b>Dean, Fac. of Educ.</b>

Education			
Blignault, H., BA DED <i>Stell</i>	(Educnl. Psychol.) Prof.	Swart, C. P., MA S.A., BEd	(Engl.)
Fourie, J. J., BA <i>Stell</i> , DED S.A.	(Pedagogy) Prof.	van der Meulen, Maryna, BA	(Phys. E.)
Fruller, S. J., DED	(Gen. Method & S.A. Hist.) Prof.	van Rooyen, G. H., BScAgric	(Agric.)
Senior Lecturers		Weideman, A. J., MA	(Afrikaans)
Botha, G., BA BSc BEd	(Arith.)	Lecturers	
...	(Hist. of E.)	Van der Riet, Rynors, BA	(Phys. E.)
Britton, A. H., BA BEd	(Phys. E.)	Geyser, W. P. G., MSc	(Arith.)
Coorssen, R. P., MA BEd <i>Stell</i> .	(Soc. Studies)	Van Rensburg, Miss H.	(Hygiene)
Schoeman, W. J., BCom BEd	(Woodwork)	Kruger, Miss D. C.	(Needlework)
Green, J. T., BA <i>Stell</i> , MA S.A.,		Nel, P. R., BA (Fine Arts)	(Art)
PhD <i>Leids</i>	(Engl.)	Schoeman, G. C., BA BEd	(Woodwork)
Hopewell, Dorothy, BA		van Staden, R. J.	(Blackboardwork)
(Fine Arts, Drawing & Hist. of Arts)		Toerien, Miss M. S. L.	(Engl.)
Pretorius, Z. J., MA S.A., DLitt <i>Stell</i> .	(Afrikaans)	van Loggenberg, Rev. J. H., BA	(Bible Hist.)
...	(Ecotoun)	van Rensburg, P. J. N. J., MA	(Phys. E.)
Moller, E. L., BA BEd <i>Stell</i> .	(Needlework)	Weiman, H. G., BCom	(Shorthand & Typewriting)
Louber, Annette S., BA		Van Rensburg, Miss M. C., BMus	(Music)
Pretorius, J. L., BA <i>Stell</i> , MEd <i>Prat</i>	(School Org.)	Lemmer, P. J.	(Singing)
DED		Van Loggenberg, N. T., BA MEd	(Educn.)

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar A. S. Theron, BCom	Book-keeper: H. J. Kruger, BCom.	Registration Officer: H. W. D. Coetzee, BCom	Evans &
Student Activities Officer: A. L. Badenhorst, BA	Badman	Equipment Officer: M. C. Schwella, BCom	

## GENERAL INFORMATION

Founded in 1855 by Sir George Grey and established as Grey Univ. Coll. in 1904, the coll. was granted indep. status by Act no. 21 of 1949, and on March 18, 1950, became the Univ. of the Orange Free State. It provides courses for degrees in arts, sci., law, educn., comm., music, phys. educn., archit., quant. surv., agric., admin., and professional qualif. for soc. workers, also prelim. trg. for med. and chem. engin. and vet. sci. Facilities are also provided for students preparing for the 'admission-examen' of the Theol. Seminary at Stellenbosch.

Bloemfontein, the capital of the Orange Free State, has a pop. of 98,000 (European, 42,400; non-European, 55,600).

**CONSTITUTION** The univ. consists of the chancellor, the rector (who is ex officio also vice-chancellor), the council, the senate, convocation, and the profs., deans, or hds. of res. instrns. controlled by the council, lectrs., other teachers and students of the univ.

**FACULTIES AND DEANS.** Agric., Prof. G. D. B. de Villiers; arts, Prof. B. Kok (Afrikaans & Dutch); educn., 88 pub. admin., Prof. F. C. v. N. Fourie; educn., Prof. H. Blignault; law, ...; sci., Prof. A. P. Malan (maths.); soc. sci., Prof. J. de W. Keyser (sociol.).

**LIBRARIES, ETC.** Univ. library, 65,000 vols. Students also have access to the Fichardt library,

railway library, union govt. archives, war museum, national museum, Lamont observatory and Boydan observatory.

**LABORATORIES.** Appl. maths, bot., chem., geog., geol., phys., phys. educn., psychol., zool.

**TERMS.** Feb. to June, Aug. to Nov.

**ADMISSION.** See p. 1456.

**FIRST DEGREE.** BArch, BSc(QS)—5 yrs. (6th yr. for hon.); BScAgric—4 yrs., BMus—4 yrs. (5th yr. for hon.); BA, BSc, BCom, BAdman, BScEcon—3 yrs. (4th yr. for hon.). The hon. course is a separate course of 1 or 2 yrs.; hon. courses for BA, BSc, BCom, BAdman, BScEcon, are available in all the major subs. in the several facs.

**HIGHER DEGREES.** LL.D.—3 yrs. after BA or BCom, BEd—1 yr. full-time or 2 yrs. pt-time; MEd—1 yr. after BEd; MArch, MA, MSc, MCom, MAdman, MScEcon, MMus, MSc(QS)—1 yr. after corresp. hon. degree. DArch, DLitt, DPhil, DSc, DEd, DCom, DAdman, DMus, LL.D.—4 yrs. after corresp. master's degree.

**HONORARY DEGREES.** Any of the degrees mentioned above may be conferred as honorary degrees.



**DIPLOMAS.** Educn.—1 yr. postgrad.; soc. sci., music, jurisp., attorney's admission and public service law exam—3 yrs.; archit., quant. surv.—5 yrs.

**CERTIFICATES.** Theory of accounting—4 yrs.

**EVENING LECTURES.** For the convenience of candidates who are employed during the day, lectures leading to the BA, BAdmin, BCom, LLB, are given after 5 p.m. each day in the univ. bldgs. Assistance is also given to candidates for the CA (S.A.) exam., attorney's admission exam., and civil service law exams.

**TUITION FEES.** R50 per semester (R64 for BAgric, BSc or BArch; R75 for BMus, or R100 for the dipl. in music).

**USUAL LANGUAGE OF INSTRUCTION.** Afrikaans.

**STUDENT RESIDENCES.** The President Steyn-tehuis and Keetell-tehuis for women, the Abraham Fischer-tehuis, the President Reitz-saal and Huis Malherbe for men are all situated near the main univ. bldg. Accommod.: 240 women, 500 men. Bd & residence: women, R224 p.a.; men, R236 p.a.

**ATHLETIC FACILITIES.** There are a number of tennis courts at the hostels for the use of students. Several good playing-fields enable students to participate in football, hockey and other sports. There is also a swimming-bath for students.

There are numerous **STUDENT SOCIETIES.**

**PUBLICATIONS.** *Calendar*, students' magazines—*Shulela* (annually), *Irana* (monthly), past students' magazine—*Die Bult* (annually).

## THE YEAR 1961

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. approaching completion: women's residence (to accomm. 150).

**RETIREMENTS.** Prof. D. Hopwood (Engl.)

**REIGNATIONS.** Prof. W. H. Gardner (Engl.), apptd. prof., Natal; Prof. J. H. N. Loubeur (phys.), apptd. prof., Rand; J. H. de Wit (chem.), to private practice; P. G. Jooste (geog.), to private practice; F. P. le R. Retief (sociol.), to private practice.

**DEATHS.** Prof. S. J. H. Steven (classics).

**HONORARY DEGREES.** DSc—Ella S. Bates, missionary, Fort Jameson, N Rhodesia; DSc—P. E. Rousseau, managing dir., Sasol.

### Statistics

#### STUDENT NUMBERS, 1961

	Full-Time*	Part-Time
Men . . .	1328	—
Women . . .	835	—
Total . . .	2163	—

\* Includes 693 extra-mural students (533 m, 164 w)

**Distribution by Faculties.** Agric, 92; arts, 676; comm. & pub. admin, 253; educn., 718; law, 67; sci., 303; soc. sci., 54. Total: 2163.

Included in the figures above are —

Postgraduate students, 378.

New admissions, 761.

Students from other countries, 10

**DEGREES AWARDED (1961).** DPhil, 4; MEd, 1; MSc, 5; MA, 4; BAdmin hon., 1; BCom hon., 2; BSc hon., 13; BA hon., 29; BEd, 16; LLB, 9; BAdmin, 6; BCom, 32; BSc, 43; BSocSci, 8; BMus, 4; BA, 104; BArch, 1; BScAgric, 5; BScAgric hon., 2.

**DIPLOMAS AWARDED (1961)** Soc. work, 1; music, 12; univ. teachers, 42; jurisp., 3

# POTCHEFSTROOM UNIVERSITY

## FOR CHRISTIAN HIGHER EDUCATION\*

Founded 1869, incorporated as an independent university, 1951

Postal Address: Potchefstroom, Transvaal, South Africa

Cables and Telegrams: University Potchefstroom

Telephone: Potchefstroom 222

CHANCELLOR—J. DE KLERK, BA S.A., LL.D.

CHAIRMAN OF COUNCIL—Rev. D. N. KOTZE

VICE-CHANCELLOR, PRINCIPAL AND CHAIRMAN OF THE SENATE—Professor J. C. COETZER, MA MED DPhil S.A., FBPtS

VICE-CHAIRMAN OF THE SENATE—Professor H. J. J. BINGELS, MED DPhil S.A.

PRESIDENT OF CONVOCATION—Professor H. G. SCHULZE, MA S.A., DPhil Bauw

REGISTRAR—S. DU TOIT, MComm

ASSISTANT REGISTRAR—G. P. SCHOSMAN, BA S.A., BComm Pret.

LIBRARIAN—H. C. VAN ROOY, MA S.A., BSc Cal, FSALA

### TEACHING STAFF

[†=Part-Time]

#### Accounting and Auditing

Grové, J. A., MComm

Venter, O. T., BComm Stell.

† Jr. Lectr., 4 Demrs.†

Prof.

Sr. Lectr.

#### Chemistry

Tsedt, J., MSc S.A., PhD Lectr.

Van den Berg, J. A., MSc S.A.,

DSc Pret.

Prof.

Sr. Lectr.

Arnold, N., MSc S.A., DEd

Williams, C. S., MSc

Nelson, H. D., MSc

Fouche, K. F., BSc

1 Lab. Techn., 3 Demrs.†

Sr. Lectr.

Lectr.

Jr. Lectr.

Jr. Lectr.

#### Afrikaans and Nederlands

Venter, H., MA DLitt S.A.

Dekker, G., MA S.A., DLitt&Phil Aust.

Prof.

Labuschagne, F. J., MA S.A.

Cloete, T. T., MA S.A., DLitt&Phil Aust.

Emer. Prof.

Emer. Prof.

Sr. Lectr.

† Jr. Lectr.†

#### Commerce

Viljoen, D. J., MComm S.A., DComm Stell.

Prof.

Art, see Hist. and Appreciation of Art

#### Commerce, Currency and Banking

Essman, D. P., DComm Pret., MComm

Sr. Lectr.

#### Bantu Languages

Breed, J., MA Pret.

Brambach, E. J. M., BA

Du Plessis, J. A., BA

Sr. Lectr.

Jr. Lectr.

Jr. Lectr.

#### Cost Accounting

Sorgdrager, A. J. E., BA BComm S.A.,

DEcon Aust., MComm

Viljoen, F. P., MComm

Sr. Lectr.

Lectr.

#### Bible, see Theol.

#### Domestic Science

Potgieter, Mia Maria M., MSc(DomSc) Pret.

Heydenreich, Mia. Coenelia C. R.,

MA BSc(DomSc) Pret.

Ferreira, Annette M., BSc(DomSc)

Van der Westhuizen, Elsie E., BDEd

#### Botany

Botha, P. J., MSc PhD S.A.

Goossens, A. P., PhD DSc S.A.

Pupendorf, M. C., MSc PhD S.A.

Van Wyk, J. J. P., MSc

2 Temp. Assts.

Prof.

Emer. Prof.

Sr. Lectr.

Lectr.

Temp. Lectr.

Jr. Lectr.

Jr. Lectr.

\* Member of the Association of Universities of the British Commonwealth

<b>Economics</b>		<b>Hygiene</b>	
Coetzee, F. J. J., BA BComm BEcon <i>S.A.</i> , MComm DEcon <i>EH Rotterdam</i>	Prof	Van Eaden, D., MSc	Sr. Lectr.
Du Plessis, F. J., MComm DEcon <i>V.U. Assnt.</i>	Sr. Lectr.	Brand, P. A. J., BSc	Lectr.
Venter, W. J., MComm <i>O.F.S.</i> , DEcon <i>V.U. Assnt.</i>	Lectr.	5 Demers†	
<b>Education</b>		<b>Journalism</b>	
Bingle, H. J. J., MEd DPhil <i>S.A.</i>	Prof.	Pienaar, G. J., BA <i>S.A.</i> , MA <i>Pret.</i>	Lectr.
Snyman, J. J., MA MEd <i>S.A.</i> , DEd	Prof.	<b>Latin</b>	
Schutte, B. C., BA MSc <i>S.A.</i> , DEd	Prof.	Coetzee, W. N., MA DPhil <i>S.A.</i> , MEd <i>Stell.</i>	Prof.
2 Assts.†		Coetzee, J. J., MA <i>S.A.</i>	Sr. Lectr.
		Du Plessis, M. J. H., BA	†Jr. Lectr.
<b>English</b>		<b>Law</b>	
Fourie, L. J. v. H., MA DPhil <i>S.A.</i> , DLitt	Prof.	Swanepoel, H. L., BA LLD <i>Stell.</i>	Prof.
Venter, J. A., MA <i>Pret.</i> , DLitt	Sr. Lectr.		Prof.
Proterius, J., BA <i>S.A.</i> , MA	Sr. Lectr.	Van Zyl, F. J., BA LLB <i>Stell.</i>	Sr. Lectr.
Prinsloo, W. J. de V., BA <i>S.A.</i> , BEd <i>O.F.S.</i>	Lectr.	Postma, S., BA LLD <i>Ley</i>	Sr. Lectr.
Lohann, Alose N. I., BA	Lectr.	Van der Vyver, J. D., BComm LLB	Lectr.
3 Temp. Assts.		Coetzee, J. A., BA LLB	Lectr.
		2 Assts.†	
<b>Ethnology and Native Administration</b>		<b>Library Science</b>	
Coetzee, J. H., MA <i>S.A.</i> , DPhil	Prof.	Van Rooy, H. C., MA <i>S.A.</i> , BSc <i>Col.</i> , FSALA	Prof., Librarian
Henning, J. J., MA	Lectr.	Van Rooy, Mrs. Johanna C., BA <i>S.A.</i> , BSc <i>Col.</i> , FSALA	Lectr.
Snyman, G. H. J., BA	†Jr. Lectr.	Schutte, P. J., BA, FSALA	Lectr.
<b>French</b>		<b>Mathematics and Applied Mathematics</b>	
Dekker, G., MA <i>S.A.</i> , DLitt&Phil <i>Assnt.</i>	Prof., Hd. of Dept.	Robbertse, W. P., MSc <i>S.A.</i> , DeScT <i>T.H. Delft</i>	Prof.
Teurlinckx, A. A. F., MA <i>Ghent</i>	Lectr.	Schutte, H. J., MSc <i>S.A.</i> , DSc <i>Ley</i>	Prof.
1 Temp. Asst.		Strydom, B. C., DSc <i>Ley</i> , MSc	Lectr.
		Van der Walt, A. P. J., MSc	Lectr.
<b>Geography</b>		<b>Music</b>	
Van der Merwe, J. S., MSc MA <i>S.A.</i>	Prof.	Ronde, M. C., BMus <i>S.A.</i>	Prof.
Duvenage, J. P., MA <i>S.A.</i>	Sr. Lectr.	van der Walt, J. J. A., BSc <i>S.A.</i> , MMus, DPhil <i>Cologne</i>	Sr. Lectr.
Verhof, P., BA	Lectr.	Koonhof, G. W., BMus	Sr. Lectr.
Voordewind, W. J., BSc	Lectr.	Wegelin, A. W., MMus <i>S.A.</i>	Sr. Lectr.
<b>Geology</b>		Snyman, Andriette, BMus <i>Stell.</i> & <i>Potchef</i>	Lectr.
Ackermann, P. B., MSc Cape T.	Prof.	Coetzee, H. P. A., MMus	Lectr.
Bischoff, A. A., MSc <i>S.A.</i>	Sr. Lectr.	Balst, H. v. N., BMus	Lectr.
1 Temp. Asst.		Osthuisen, Jeannette F., BMus	†Jr. Lectr.
		Theon, Mrs. Suse M. E. P.	Jr. Lectr.
<b>German</b>		<b>Native Administration, see Ethnol.</b>	
Brandt, P. A., MA <i>S.A.</i> , DPhil <i>Leip.</i>	Prof.	<b>Pharmacy</b>	
Schulze, H. G., MA <i>S.A.</i> , DPhil <i>Bonn</i>	Emer. Prof.	Gerritsma, K. W., DrSc <i>Utrecht</i>	Prof.
<b>Greek</b>		Offersma, J., BSc <i>Pharm</i>	Lectr.
Postma, A., MA CandTheol <i>S.A.</i>	Prof.	Van Oudehoorn, M. C. B. v. R., BSc <i>Pharm</i>	Lectr.
Grobler, J. H., BA <i>S.A.</i> , MA <i>Pret.</i>	Sr. Lectr.	Van Dyk, Johanna M., BSc <i>Pharm</i>	Jr. Lectr.
<b>History</b>		2 Temp. Lectrs., 1 Asst.	
Kruger, D. W., MA DLitt <i>S.A.</i>	Prof.	<b>Philosophy</b>	
Du Plessis, J. S., MA <i>S.A.</i> , DLitt	Sr. Lectr.	Stoker, H. G., MA <i>S.A.</i> , DPhil <i>Cologne</i>	Prof.
<b>History and Appreciation of Art</b>			
Dekker, G., MA <i>S.A.</i> , DLitt&Phil <i>Assnt.</i>	Prof.		

Taljaard, J. A. L., MA S.A., DPhil V.U. Assst.

Du Plessis, P. G. W., DPhil  
Temp. Asst

### Physical Education

Smith, D. P. J., BA MEd DPhil S.A., Dupl  
Turn, Sport- u. Gymn.-Lehrer Berl. Prof.  
Roosman, J. S. K., BPEd BED Lectr.  
Putter, W. J., BA MEd Jr. Lectr.  
Schoeman, Irma, BA Jr. Lectr.  
Bester, Gerda W., BA Jr. Lectr.

### Physics

Stoker, P. H., BSc S.A., MSc Cape T.,  
DSc V.U. Assst. Prof.  
Meyer, M. A. du T., BSc S.A., MSc Cape T.,  
DSc T.H. Delft Sr. Lectr.  
De Beer, J. F., BSc S.A., MSc Stell.,  
DSc Sr. Lectr.  
a Instrument Maker, 1 Temp. Asst., 9 Jr.  
Demos

### Physiology

Hamersma, P. J., DSc Pret. Prof.  
Pietorius, P. J., DSc V.U. Assst., MSc Lectr.  
Oelofse, P. J., MSc Lectr.  
J. Demers†

### Politics

Van der Walt, C. P., MA Sr. Lectr.

### Psychology

Deppe, P. C. W., MB BCh Rand Hon Prof.  
Hartingh, J. M., MA DPhil S.A. Prof.  
Schoeman, C. F., BA(SS) MA S.A.,  
DPhil Assst. Sr. Lectr.  
Strümpfer, D. J. W., BSc S.A., PhD Paderb.,  
MSc Sr. Lectr.  
Ronde, C. D., MA Jr. Lectr.  
1 Temp. Asst.

### Semitic Languages

Du Plessis, S. J., MA Pret., BA MDiv  
DD S.A., ThM Dlett Sr. Lectr.  
Kroeger, J. H., DrTheol LittSemDrs  
V.U. Assst. Emer. Prof.

### Social Work

Venter, C. N., MSocSc Sr. Lectr.

### Sociology

van der Walt, J. P., MA DPhil Prof.  
Eloff, D. J., BA S.A. Lectr.  
1 Temp. Asst.

### Statistics

De Wet, J. M., MSc S.A., BSc(Eng) Rand, Prof.  
PhD Lond. Lectr.  
Venter, J. H., MSc

### Theology

Du Toit, S., MA Pret., MDiv DD S.A. Prof.  
Snyman, W. J., BA BD S.A.,  
TheolDrs V.U. Assst. Prof.  
Jocste, J. P., BA DD S.A. Prof.  
van der Walt, S. P., MA BD DPhil S.A. Prof.  
Du Plessis, H., MA S.A. Prof.  
Van der Walt, S. J., BA MDiv DD S.A. Prof.

### Zoology

Van Eeden, J. A., DSc Stell. Prof.  
Ryke, P. A. J., DSc Stell. Sr. Lectr.  
Schoonbee, H. J., BSc Lectr.  
Van Aardt, W. J., BSc Jr. Lectr.  
3 Demers

### AFRICA SEMINAR

Costee, J. H., MA S.A., DPhil Dir.

### CONSERVATOIRE

Roode, M. C., BMus S.A. Prof., Hd of Conservatoire  
Le Roux, Mrs Doris S. (Piano) Teacher  
Pretorius, Mrs Thelma (Piano & Organ) Teacher  
Swanepoel, Mrs. Anna D. (Piano) Teacher  
Kunkel, E. (Piano & Organ) Teacher  
Louwse, Mrs Maria C. (Singing) Teacher  
Smutsman, Susan C. J. (Violin) Teacher  
Papendorf, Mrs Anna M. (Singing) Teacher  
15 Asses†

### INSTITUTE FOR ECONOMIC RESEARCH

Eisenmus, D. P., DComan Pret., MComm Dir.

### INSTITUTE FOR PHYSICAL RESEARCH

Meyen, M. A. du T., BSc S.A.,  
MSc Cape T., DSc T.H. Delft Dir.

### INSTITUTE FOR SOUTH AFRICAN MUSIC

van der Walt, J. A., BSc S.A., MMus  
DPhil Cologne Dir.

### PLANT PHYSIOLOGY RESEARCH INSTITUTE

Botha, P. J., MSc PhD S.A. Dir.

### ZOOLOGY RESEARCH INSTITUTE

Ryke, P. A. J., DSc Stell. Dir.

## ADMINISTRATIVE AND OTHER STAFF

Organizer: C. J. H. Schutte, BComm S.A.  
 Accountant: P. J. de Wet, BComm Warden of

Residences: C. P. van der Walt, MA S.A.  
 Supt. of Grounds and Bldgs: M. G. L. Bosman

## INSTITUTIONS IN CO-OPERATION WITH THE UNIVERSITY

**THEOLOGICAL SCHOOL OF THE REFORMED CHURCH IN SOUTH AFRICA** (f. 1869), P.O. Box 2004, North Bridge, Potchefstroom (tel.: 159, Potchefstroom). Rector: Prof. S. P. van der Walt, MA BD DPhil S.A. A trg. instn. for the ministry of this Church. Admission qualif.: a 1st degree of this univ. While in trg. at the sch.,

students also take a degree in theol. at the univ.

**POTCHEFSTROOM COLLEGE OF EDUCATION** (f. 1919), P.O. North Bridge, Potchefstroom (tel.: 261, Potchefstroom). Rector: Prof. J. J. Mulder, BA BSc MEd S.A. A trg. instn. for primary and secondary sch. teachers, the latter taking simultaneously a 1st degree at the univ.

## AFFILIATED INSTITUTION

**CONSERVATORS OF THE POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN HIGHER EDUCATION** (f.

1950) Hd.: Prof. M. C. Roode, BMus S.A.  
 Address and Telephone same as Univ.

## GENERAL INFORMATION

Founded in 1869, the present univ. was incorporated in 1921 as a constituent coll. of the Univ. of South Africa under the name of 'The Potchefstroom University College'. An amendment to the Potchefstroom Univ. Coll. Private Act was passed by parliament in 1933, reinstating the original name Potchefstroom University College for Christian Higher Education. In 1950 parliament passed a private act whereby the coll. became an independent univ. as from March 17, 1951.

Potchefstroom (pop. 26,000) is a univ. town and holiday centre on the Mooi River, 70 miles S E of Johannesburg.

**CONSTITUTION** The univ. consists of the chancellor, vice-chancellor, principal, council, senate and convocation, the profs., lectrs. and other teachers, and the students. The chancellor, elected by the council, is the head of the univ., and as such is empowered to confer all degrees. The chief academic and admin. officer is the principal, who is *ex officio* a member of the council, and chairman of the senate. The hds. of academic depts. and hds. of res. insts. are members of the senate. The council, which elects its own chairman, is the governing body of the univ. and administers its affairs and property.

**INCOME** (1961). Total income, R891,524 (govt. grant, 78.1 per cent.; annual grants from public bodies, 0.8 per cent.; interest on investments, rent received and sundry income, a per cent.; fees, 19.1 per cent.)

**FACULTIES AND DEANS.** Arts, Prof. J. H. Coetzee (ethnol.); *econ. sci.*, Prof. D. J. Viljoen (comm.); *educn.*, Prof. B. C. Schutte; *sci.*, Prof. W. P. Roberthse (maths.); *theol.*, Prof. W. J. Snyman.

**LIBRARY.** Ferdinand Postma library 130,873 vols., 2,159 magazines and periodicals

**LABORA FORIST.** Appl. maths., bot., chem., pharm., *dom. sci.*, geog., geol., phys., physiol., psychol., phys. educn.; zool.

**ADMISSION.** See p. 1456. Students who are not qualified, or who do not desire, to take an ordinary degree or dipl. course may be admitted to attend classes, provided the prof. or lectr. concerned is satisfied that they can profit by the instruction given.

**FIRST DEGREES.** 3 yrs.—BA (4th yr. for hon. in Afrikaans-Nederlands, Bantu langs., econ., Engl. lang. & lit., ethnol., French, geog., German, Greek, hist., hist. & appreciation of art, hist. of music, journalism, Latin, maths., native admin., philol., phys. educn., pol., psychol., Roman law, Roman-Dutch law, Semitic langs., soc. work, sociol.), BMus (4th yr. for hon.) BSc (4th yr. for hon. in appl. maths., bot., chem., dietetics, geog., geol., hyg., maths., phys., phys. educn., physiol., psychol., stat. maths., theory of stats., zool.); BComm (4th yr. for hon. in acctg., comm., *econ. acctg.*, econ., psychol.); 4 yrs.—BA(LibSci), BSc(Dom), BSc(DomSciTeachn.); 5 yrs.—BSc(Pharm) (6th yr. for hon.)

**HIGHER DEGREES.** MA, MMus, MSc, MSc (Pharm), MComm, LLB, BEd, BPed—2 yrs. from bachelor's degree. ThB—1 yr. from BA; ThM, MEd, MPed—1 yr. from ThB, BEd and BPed; DLit, DPhil, DSc, ThD, DEd, DPed, DComm—2 yrs. from corresponding master's degree; DMus—3 yrs. from MMus; LL.D.—2 yrs. from LLB.

**HONORARY DEGREES.** Any master's or doctor's degree of the univ. may be awarded as an honorary degree.

**DIPLOMAS.** Teacher's in music; teacher's in sch. music; church organists, teacher's in dom. scl.; univ. educn. dipl. (non-grad.)—3 yrs.;

artist's in music—1 yr. after teacher's in music  
Phys. educ.—1 yr. after teacher's. Lower univ.  
dipl. in library sci.—2 yrs Univ. educ. dipl.,  
univ. dipl. in library sci., dom. sci., dietetics—  
each 1 yr. postgrad.

CERTIFICATES. Theory of acctg.—3 yrs,  
lower cert. in cost acctg.—2 yrs, higher cert. in  
cost acctg.—2 yrs postgrad.

Fees. Registration fee, R6 p.a. Composite  
fees. Bachelor's degrees from R102 to R120  
(annually); ThB, R61 (annually); hon. bachel.  
degrees and BEd, from R66 to R128  
(for course); Master's degrees, R56 (for course),  
ThM, R66 (for course); doctor's degrees, R120  
(for course). Dipl. courses from R70 to R112  
(annually).

STUDY LEAVE AND FURLOUGH. Academic staff  
may be granted 6 mos.' leave (3 mos. full pay,  
3 mos. half pay) after each period of service of  
6 yrs.

ACADEMIC YEAR. 2 semesters. Feb. to end of  
June, Aug. to early Dec.

USUAL LANGUAGE OF INSTRUCTION. Afrikaans.

VACATION COURSES. Occasional short vac.  
courses may be offered if there is sufficient  
demand. Courses in co-operation (every and yr.).

## THE YEAR 1961

PRINCIPAL BENEFICIARIES. Total value of all  
benefactions received. R75,656.

MAJOR BUILDING DEVELOPMENTS. Bldgs. com-  
pleted: new labs. for zool., physiol., psychol.,  
addition to phys. lab., new hostel for men  
students. Approaching completion: new labs.  
for pharm., indust. chem., new arts bldg., new  
hostel for women students.

NEW DEPARTMENTS AND CHAIRS. Depos: soc  
sci.; comm.; currency & banking.

RETIREMENTS. Prof. G. Dekker (Afr.-Ned.);  
Prof. A. P. Goossens (bot.); Prof. D. J. van Rooy  
(maths.); Prof. J. H. Kruger (Semitic langs.).

RESIGNATIONS. Prof. L. J. du Plessis (law),  
H. P. Pamahe (Bantu langs.); G. J. H. Kruger  
(Bantu langs.); Dr. R. V. Andrew (Engl.);  
E. J. de Jager (ethnol.); J. J. Lemming (maths.);  
P. de Villiers (music); J. H. Potgieter (music);  
M. Coetzee (pharm.); J. A. M. de Villiers (phys.);  
Ingrid U. Anderson (zool.); M. J. Matin Potgieter  
(conservation).

DIAPHS. A. B. Prillius (law).

HONORARY DOCTORS. LL.D.—Hon. Hon. Dr.  
H. V. Vanwoerd, prime minister, DComm.—Hon.  
Hon. Dr. J. H. Snyen, member of parliament.

## Statistics

	STUDENT NUMBERS, 1962	
	Full-Time	Part-Time*
Men	1219	4
Women	560	18
Total	1879	22

\* Part-time students are those not studying for a degree, diploma or certificate. All occasional students are included in this category.

BURARIES FOR STUDENTS ENTERING THE UNIV.  
TO READ FOR A FIRST DEGREE. Merit awards,  
from R20 to R120 p.a. for 3 yrs.; J. M. Hansen,  
R200 p.a. for 1 yr.; also sundry state and municipal buraries.

STUDENTS' RESIDENCES. (Address: P. U. for  
C.H.E., Potchefstroom). Fees, R120 p.a.  
Women: De Klerkhuys, 81 students; Piet  
Groblershuys, 73, Klawerhof, 209. Men: Post-  
mahuis, 27, Uitspan, 36; Heintz, 38; Ons  
Huis, 49; Dawie du Plessis, 146, Johanna  
van Rooy, 150.

STUDENTS' UNIONS. Students' representative  
council is elected by the students to deal with all  
student affairs. It controls a large number of  
clubs and organizations and is the students'  
official avenue of approach to authorities of the  
univ.

STUDENTS' SPORT FACILITIES. Gymnasium,  
swimming-bath, fields for rugby, tennis, hockey,  
cricket, baseball, netball, athletics, Joksies, etc.

PUBLICATIONS. *Calender* (Dec., free); *Rector's  
Report* (Feb., free); *Die Vaderland*, quarterly for  
alumni (free); *Koers* (monthly, 3s.); *Die  
Bewoosers*, *Die Pukker*, *Die Wapad* (student  
publications).

Distribution by Faculties, etc. *Arts*, 688,  
*eccl. sci.*, 311; *educ.*, 261, *sci.*, 588; *theol.*, 53  
Total, 1901

Included in the figures above are:—

Postgraduate students, 572.

New admissions, 418.

Students from other countries, 90 (Country  
from which largest number came: Fed. of  
Rhodesia & Nyasaland).

DEGREES AWARDED (1961). *Arts*: BA, 105;  
BMus, 9, BSocSc, 1; BA hon., 27; BMus  
hon., 1; LLB, 4, MA, 1, DLitt, 4; DPhil, 2;  
LLD, 1. *Econ. sci.*: BComm, 50, BComm  
hon., 8, MComm, 1. *Edw.*: BSc(DomSc  
Teachers), 1; BEd, 19; hon. BEd, 1, MEd,  
3, MPEd, 1, DEd, 3. *Sci.*: BSc, 65; BSc  
(Dom), 1; BSc(Pharm), 23; hon. BSc, 19;  
hon. BSc(Pharm), 6, BSc, 7, MSc(Pharm), 1,  
DSc, 2. *Theol.*: ThB, 11; ThM, 3.

DIPLOMAS AWARDED (1961). Univ. educn/  
dipl., 32; univ. educn. dipl. (non-gnd.), 1;  
univ. lower educn. dipl., 3; teacher's dipl. in  
dom. sci., 9; teacher's dipl. in music, 3; church  
organists, 5; lib. sci., 9; lower dipl. in lib.  
sci., 5.

CERTIFICATES AWARDED (1961). Music, 7.

# UNIVERSITY OF PRETORIA\*

Incorporated 1930, previously established as Transvaal University College, 1910

Postal Address: Brooklyn, Pretoria, Transvaal, South Africa

Cables and Telegrams: Puniv, Pretoria (Bentley Code)

Telephone: Pretoria 74-3111

CHAIRMAN OF COUNCIL—F. MEYER, BA Cape T., MSc Stell., DrEng Berl., Hon. DSc(Eng) Rand, Hon. DSc

CHANCELLOR—C. TE WATER, BA LLB Camb., Hon. LL.D. Rand

VICE-CHANCELLOR AND RECTOR—C. H. RAUTENBACH, MA BD S.A., Hon. DUMont., DPhil

REGISTRAR AND FINANCIAL ADVISER—M. SMUTS, MCom(B&A)

ACCOUNTANT—J. P. NEL, MCom(B&A)

LIBRARIAN—A. J. VAN DEN BERGH, BA DipLibr

## TEACHING STAFF

[†=Part-Time]

<b>Accountancy</b> , see Commerce and Public Administration	Groenewald, P. S., BA Wilkes, A., BA 2 Demrs.	Lectr. Lectr.
<b>Afrikaans Language and Literature</b> , see Dutch, Afrikaans and Germanic Philol. and Lit.	Biochemistry, see Physiol	
<b>Agriculture</b> , see below	<b>Botany and Biology</b> , see also Veterinary Science	
<b>Anthropology</b> , see Soc. Anthropol.	Grobbehaar, N., BSc Rhodes, PhD Corn, MSc (Plant Physiol. & Plant Biochem.) Bertha Stoneman Prof.	
<b>Architecture and Quantity Surveying</b>	Schweickardt, H. G. W. J., BSc S.A., PhD Bonn (General Bot.) Louis Botha Prof.	
Meiring, A.L., BA Cape, BArch Lit., FRIBA (Design, Bldg. Construct., Acoustics) Prof.	van der Schyf, H. P., BSc S.A., DSc Potchef, MSc Sr Lectr.	
Louw, T. H., BSc(QS) (Quantities, Mensuration, Professional Practice, Analysis of Bldg. Costs, Valuations & Reports, Estimates & Bldg. Finance) Assoc. Prof.	Theron, J. J., MSc S.A., DPhil Berl. Lectr.	
Wepener, F. J., BArch Rand Sr. Lectr.	Classen, Martha I., MSc Lectr.	
Brink, C. S., BArch Cape T., DipTP Lit. Sr. Lectr.	Jooste, J. H., BSc Stell. Lectr.	
Meyer, W. J. C., BArch Cape T., DipTP Land Lectr.	Groenewald, E. C., BSc(Agric) BSc 2 Jr. Lectrs., 3 Tech. Assts	
de Beer, W. M., BArch Lectr.	<b>Chemistry, Inorganic and Analytical</b>	
Viljoen, J. T. B., BSc(QS) Lectr.	Schulz, W. E., MSc LLB S.A., DIC, PhD Munich Prof.	
11 Lectrs.† and 6 from other Univ. Depts.	Liebenberg, C. J., MSc Stell., DSc Wittmann, G. T. W., MSc Stell., UED Natal Lectr.	
<b>Banking</b> , see Commerce and Public Administration	Lotriet, A. P., BSc Lectr.	
<b>Bantu Studies</b>	Norval, S., BSc Lectr.	
van Wyk, E. B., MA DPhil (Bantu Langs.) Prof.	Böhmer, R. G., MSc 1 Jr. Lectr., 6 Tech. Assts.	
de Clercq, J., MA Stell. Sr. Lectr.	<b>Chemistry, Organic</b>	
	de Waal, H. L., MSc Stell., DrPhil Bonn, DSc Prof.	

\* Member of the Association of Universities of the British Commonwealth

Serfontein, W. J., MSc *Stell.*,  
DrPhilNat *Ley.*  
Wichous, A., MSc  
2 Tech Assts.

Sr. Lectr.  
Lectr.

**Economics**, see Commerce and Public  
Administration, below

**Education**, see below

**Engineering**, see below

**English**

Tuistad, R. M., MA *S.A. & Oxon.*,  
LLB *S.A.*, Pretoria City Council Prof.  
Sabbagha, N. G., MA *S.A. & Oxon.*, Assoc. Prof.  
Knowles-Williams, Gwenneth, MA DLitt  
van Huyssteen, J. A., BA *Rand*, Sr. Lectr.  
Jeffries, Mrs. Kathleen, MA *S.A. & Oxon.*, Sr. Lectr.  
Bryant, E. P., BA *Cape T.*, Lectr.  
1 Jr. Lectr.

**Entomology**, see Agriculture, below

**French**

Vihoen du Chailion, Mrs. Madeleine G. E. F.,  
BA *Louv.*, MA (on leave) Sr. Lectr.  
Monning, Mrs. Agneta A., MA Lectr.  
1 Lectr.

**Geography and Economic Geography**

Scheepers, G. H., BA *S.A.*, DSc *Hamburg*, Prof.  
MSc  
Hugo, C. F., BA *S.A.*, MA DPhil *Stell.*, Sr. Lectr.  
Verster, J. H., MSc Sr. Lectr.  
12 Tech Assts.

**Geology**

Willems, J., PhD *Zür.*, MSc Prof.  
Vasser, D. J. L., DSc *Stell.*, FGS Sr. Lectr.  
Zegg, S., MSc Sr. Lectr.  
Snyman, C. P., MSc Lectr.  
1 Jr. Lectr., 2 Tech. Assts.

**German**

Mostert, L. C., BA *Stell.*, PhD *Hamburg*  
(German Lit.) Prof.  
Leus, J. A. E., DPhil *Bonn*, BA Sr. Lectr.  
Neitz, H. K. R. S., MA Lectr.

**Hebrew**

van Selma, A., ThD *Utrecht* Prof.  
Neuman, J., MA *Manc.*, DLitt  
(Post-Biblical Jewish Lit.) Hon. Prof.  
Leibuschagne, C. J., ThD *Grav.*, BD Sr. Lectr.  
van Wyk, W. C., BA BD Lectr.

**History**

Pelzer, A. N., MA DPhil (on leave) Prof.  
van Alphen, C., DLitt *Ley*  
(H. of Afrikaans & Neth. Culture) Prof.  
van der Westhuysen, H. M., MA DLitt  
(H. of Art) Prof.

**Chemistry, Physical and Theoretical**  
Pretorius, V., DPhil *Oxon.*, MSc Prof.  
Clark, F. L., MSc *Stell.*, DSc *S.A.* Hon. Prof.  
le Roux, L. J., MSc BCom *S.A.*, DSc  
de Wet, J. F., DSc Hon. Prof.  
Sr. Lectr.  
Sr. Lectr.  
2 Tech Assts

**Classics**, see also Hist.

Genon, H. L., BA *Stell.*, MA *Oxon.*,  
LittD *Ley.*, LLB (Latin) Prof.  
Pastorius, P. V., MA BD *Stell.*, LittD&Phil  
*Ley.*, DLitt  
(Hellenic & Patristic Greek) Prof.  
de Kock, E. L., LittD&Phil *Ley.*, BD MA  
(Greek) Sr. Lectr.  
Richards, W. J., BCom *S.A.*, MA  
(on leave) Sr. Lectr.  
de Wet, B. X., MA (Greek) Lectr.  
in Grange, L. J. D., BA (Latin) Lectr.

**Commerce and Public Administration**,  
see below

**Criminology**

Venter, H. J., MA DPhil Prof.  
Steyn, D. G., MA DPhil Sr. Lectr.  
1 Jr. Lectr.

**Dentistry**, see below

**Domestic Science**

Ackerman, Esther M., MA *Cal.*, MSc *Corn.*,  
BScDomSc Sr. Lectr.  
van den Berg, Anna S., MS *Harc.*,  
BSc(Dietet) Sr. Lectr.  
Muller, Johanna M., BScDomSc Sr. Lectr.  
Procter, Mrs. Josina M., BScDomSc Lectr.  
2 Jr. Lectrs., 1 Lectr.

**Dutch, Afrikaans and Germanic  
Philology and Literature**

Louw, S. A., LittDrs *Utrecht*, MA DLitt  
(on leave) (Afr. & Dutch Lang.)  
Pretoria City Council Prof.  
Grové, A. P., DLitt *S.A.* (Afrikaans Lit.) Prof.  
Buning, T., BA BSc *S.A.*, MA DLitt MEd  
(Dutch Lit.) Prof.  
Jordaan, F. B., DLitt *Rand*  
(Afrikaans Lit.) Hon. Prof.  
Scholtz, H. v. d. M., MA *S.A.*, DLitt&Phil  
Anst (Afrikaans Lang.) Assoc. Prof.  
Bingle, J. P., MA HED *S.A.*  
(Afrikaans Lang.) Sr. Lectr.  
Shydom, S., DLitt (Afrikaans Lit.) Sr. Lectr.



Spies, F. J. du T., MA S.A., LittD Ley.

van Rooyen, T. S., DPhil

Nibbel, P. G. E., PhD Rand, MA

1 Jr Lectr.

**History, Economic, see Commerce and Public Administration, below**

**Industrial Economics, see Commerce and Public Administration, below**

**Land Surveying, see Engineering, below**

**Law, see below**

**Library Science**

Coetzee, P. C., DPhil S.A., MA

de Kock, A. P. S., BA

Prof.  
Lectr.

**Mathematics**

Zietsman, P. J., MSc BEd

van Waasma, N. J., MSc

Hartnigh, D. J., BSc Rand, MSc

de Wet, C. L., MSc Potchef.

Bothe, Marie H., MSc

Viljoen, G., MSc O.F.S. (on leave)

Hauptfleisch, G. J., BSc S.A., MSc

Kies, J. D., BSc Stell., MSc

van Niekerk, F. D., MSc

1 Tech Asst

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
(on leave)  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Mathematics, Applied**

Beechold, W. F., DSc Utrecht, MSc

Geldenhuys, J. J., MSc HED

Kruger, C. J. v. Z., MSc

Hall, J. S., BSc BEd

de Swart, J. J., BSc

du Buisson, J. P., BSc

Prinsloo, G. C., BSc

1 Lectr., 10 Demas.

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Medicine, see below**

**Metallurgy, see Engineering, below**

**Music**

Molan, J. P., BA BMus S.A., DPhil Vienna

Prof., Dir. Academy of Music

Kautsky, Mis. Gertrud

Gerstman, Blanche, BMus Cape T.

Potgieter, J. H., BMus Rand, MMus Stell.

Clough, R. A

2 Lectrs, 2 Jr. Lectrs.

Lectr.

Lectr.

**Native Administration, see Soc. Anthropol.**

**Philosophy**

Oberholzer, C. K., BA S.A., DEd S.A. &

Pres., MA DPhil

Prof.

Dreyer, P. S., DisPhil Gron., MA BD

Schoeman, S. J., MA DEd

Co-Prof.  
Lectr.

**Physics**

Verlegh, H., DPhil Garmen, DrRerNatHabil

T.H. Daresstadt

van der Merwe, J. H., PhD Buit.

MSc Stell. & Pret.

Prinsloo, L. A., DSc

Koen, J. G., BEd Potchef., DSc

Lemmer, H. R., MSc O.F.S., DPhil Oxon.

van Zyl, G. J., MSc Stell.

Friedland, E. K. H., MSc

Gaigher, H. L., MSc

Prekel, H. L., MSc

Strauss, L., BSc

1 Jr. Lectr., 7 Tech. Assts.

Prof.  
Assoc. Prof.  
Sr. Lectr.  
Assoc. Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Physiology, see Medicine and Veterinary Science, below**

**Political Science, see Commerce and Public Administration, below**

**Psychology**

Schlebusch, B. J., MA DPhil Stell.

Swagers, D. J., MA Stell., DPhil

Wichmann, S. W., MA DPhil

Weyers, J. L., BA MCom(B&A)

Geldenhuys, B. P., DPhil MA

1 Jr. Lectr.

Prof.  
Assoc. Prof.  
Sr. Lectr.  
Lectr.  
Lectr.

**Public Administration, see Commerce and Public Administration, below**

**Quantity Surveying, see Archit. and Quant. Surv.**

**Semitic Languages, see Hebrew**

**Social Anthropology and Applied Social Anthropology (Native Administration)**

Coetzee, P. J., MA DPhil Stell.

Eloff, J. F., MA

Coetzee, R. D., MA

de Villiers, C. M., BA Stell. & Pret.

2 Jr. Lectrs.

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.

**Sociology and Social Work**

Cronjé, G., MA Stell., Litt&PhilDr Aust.

Peterse, J. E., MA(SW) DPhil

Loedolff, J. F., BD MA DPhil

van Niekerk, Susanna E., MA(SW)

van Wyk, S., BA(SW) MA

van Bochove, Johanna W., MSc Cpl., BA

(SW) HD&SW

Rhodes, N. J., MA

Anderson, W. W., BA(SW) MA

3 Jr. Lectrs.

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Speech Science and Logopedics**

Pennar, P. de V., MA *Rand*, PhD *Hantburg* Prof.  
Behr, Mrs Pamela R., B.A. Logopedics *Rand*

Lectr.  
Hay, I. S., BSc(Eng) Lectr.  
2 Speech Therapists

Statistics, see Commerce and Public  
Administration, below

Theology, see below

Veterinary Science, see below

**Zoology**

Elloff, F. C., DSc Prof.  
Malan, D. J., MSc S.A. Sr. Lectr.  
de Graft, G., MSc *Rand* Lectr.  
Nel, J. A. J., BSc *Stell.* Lectr.  
2 Jr. Lectrs., 2 Tech. Assts.

Zootechnics, see Veterinary Science, below

**AGRICULTURE****Agricultural Biochemistry**

Potgieter, D. J. J., PhD *Calif.*, MSc(Agric) Prof.  
de Vulliam, V., BSc(Agric) Sr. Lectr.  
Voss, H. C., DrPhil *Bow* Lectr.

Agricultural Chemistry, see Soil Technol.

**Agricultural Economics**

Prof.  
Tomlinson, F. R., MScAgric *Stell.*,  
PhD *Cam.*, DSc(Agric) Assoc. Prof.  
Smith, D. J. G., MScAgric *Lawr.*, MSc(Agric) Sr. Lectr.  
Gregory, J. J., MA *Chic.*, MSc(Agric) Sr. Lectr.  
Brand, S. S., BSc(Agric) (on leave) Lectr.

**Agricultural Education and Extension**

Prof.  
Kolbe, F. F. H., BSc(Agric) Sr. Lectr.  
Belcher, J. H., BSc(Agric) *Stell.* Sr. Lectr.

Agricultural Engineering, see Engineering,  
below

**Agricultural Entomology (and Entomology  
in Faculty of Science)**

Prof.  
Mathee, J. J., PhD *Cambridge*, MSc  
Janse, A. J. T., DSc S.A.  
(Taxonomy) Hon. Prof.  
Smit, C. J. B., DSc(Agric) Sr. Lectr.  
de Villiers, W. M., BSc Lectr.

**Agronomy and Biometry**

Prof.  
Huyt, D. G., MSc *Ill.*, PhD *Conn.* Prof.  
Nel, P. C., DScAgric *Stell.* Sr. Lectr.  
Havenga, C. M., MCom (Biometry) Sr. Lectr.  
Möhr, P. J., BSc(Agric) Lectr.

**Animal Husbandry**

Bonema, J. C., MSc(Agric) (Animal H.) Prof.  
Louw, G. N., BScAgric *Stell.*, PhD *Conn.*

Sr. Lectr.  
Lombard, J. H., MSc(Agric) Lectr.  
1 Lectr.†

**Dairying**

Lombard, S. H., MScAgric *Stell.*, PhD *Ill.*  
Uncon-Castle Prof.  
de Kock, A. A., BSc(Agric) Sr. Lectr.

Ecology, see Pasture Res. and Ecol.

**Genetics**

Hofmeyr, J. D. J., MScAgric *Stell.*,  
PhD *Conn.* & S.A. Prof.  
Gertsen, J. M. P., BScAgric *Stell.* Sr. Lectr.  
van Schaik, Miss Nancy, BSc *Ill.*, MSc  
PhD *Wisc.* Lectr.

**Horticulture**

Obetholzer, P. C. J., PhD *Arizona*,  
MSc(Agric) Prof.  
von Staden, D. F. A., BSc(Agric) Sr. Lectr.

**Pasture Research and Ecology**

Prof.  
Pennar, A. J., BSc *Pretoria* & *Natal* Sr. Lectr.  
Rabie, J. W., BScAgric *Stell.* Sr. Lectr.  
MScAgric *Natal*  
Gruenow, J. O., BScAgric *Natal*, MSc  
(Agric) Lectr.  
1 Lectr.†

**Plant Pathology and Microbiology**

Prof.  
le Roux, P. M., PhD *Wisc.*, MSc(Agric) Sr. Lectr.  
Rabie, C. J., MS *Wisc.*, DSc(Agric) Sr. Lectr.  
Steyn, P. L., BSc Lectr.  
Smith, O. G., BSc(Agric) Lectr.

Poultry, see also Veterinary Science (p. 1483)

Prof.  
du Plessis, P. H. C., DipAnGen *Bow.*  
BSc(Agric) Sr. Lectr.  
Erasmus, J., MSc(Agric) Sr. Lectr.  
1 Lectr.†

**Sheep Husbandry and Wool Technology**

Joubert, D. M., PhD *Cambridge*, MSc(Agric) Assoc. Prof.  
Nel, J. W., BScAgric *Stell.* (on leave) Sr. Lectr.  
de Wet, P. J., PhD *Leeds*, MSc(Agric) Lectr.  
2 Lectrs.†

**Soil Technology**

Prof.  
Folscher, W. J., PhD *Calif.*, MSc  
van der Walt, H. v. L., PhD *Calif.*,  
BSc(Agric) Sr. Lectr.  
Oberholzer, R. E., MSc(Agric) Sr. Lectr.  
Fals, P. F., BSc(Agric) Lectr.

# **COMMERCE AND PUBLIC ADMINISTRATION**

## **Accountancy**

Pistorius, C. W. I., MCom	Prof
Vissagie, J. J., MCom	Sr Lectr
Zevenbergen, A. P., MCom	Sr Lectr
du Plessis, S. C. V., BCom S.A., MCom	Lectr
de la Rey, C. J., MCom	Lectr
4 Temp Lectrs.	

## **Banking**

de Kock, G. P. C., PhD Harv., MA	Prof
Meijer, J. H., MA	Sr Lectr

## **Commerce and Industrial Economics**

Reynders, H. J. J., MBA Harv., DCom	Prof
Goudraam, J., Drie T.H. Delft	Emer. Prof.
Nieuwenhuizen, P. J., MCom	Sr Lectr
Max, F. W., MCom S.A., MCom (B&A)	Sr Lectr

## **Economic Theory and History**

Lombard, J. A., PhD Lond., MA	(on leave) Prof
Sedler, J., MCom Stell	Sr Lectr
van Zyl, J. C., BCom Stell	Lectr

## **Mercantile Law, see Law, below**

## **Public Administration and Political Science**

Gey van Pittius, E. F. W., MA S.A., PhD Lond.	Prof
Cloete, J. J. N., MAdmin DPhil	Sr Lectr
Nieuwoudt, C. F., MA	Sr Lectr
Krick, D. J., MA	Lectr

## **Statistics**

Stokor, D. J., MSc S.A. & Stell, PhD Amst.	Prof
Crouse, C. F., PhD Lond., MSc	Sr Lectr
Schoeman, H. S., MCom	Lectr

# **DENTISTRY**

## **Conservation**

Schoeman, P. J., BDS Rand, BSc	Prof
Stead, J. H. C	Sr Lectr
8 Lectrs †, 2 Clin. Assts.	Lectr

## **Dental Pathology and Histo-Pathology**

de Jager, C. L., BA S.A., BDS Rand	Prof
1 Lectr. †, 1 Tech. Asst.	Sr Lectr

## **Oral Surgery**

Snyman, P. C., BDS Rand, FDSRCSEd	Prof
.....	Sr Lectr

Verhulst, J. J., BDS Rand (on leave) Lectr.  
6 Lectrs. †, 1 Clin. Asst †, 1 Tech. Asst

## **Orthodontics**

de Villiers, J. F. v. d. S., MDS DPD Rand,  
CertOrthod Col Prof.

## **Prosthetics**

du Plessis, G. T. C. F., BSc S.A. Prof  
Barrowman, T. R., BDS Rand, BA Sr Lectr.  
van Rensburg, W. H. M. J., BChD Lectr.  
4 Dent. Mechs.

# **EDUCATION**

## **Educational Psychology**

Nel, B. F., BA DPhil S.A., DraPed Litt&  
PhilD Amst., Hon. DrLitt&Phil Ghent, Prof.  
MED  
Sonnekus, M. C. H., BCom DraPed  
Utrecht, DEd Sr Lectr.  
Landman, W. A., DEd Sr Lectr.  
1 Tech. Asst.

## **Educational Sociology**

Nel, B. F., BA DPhil S.A., DraPed Litt&  
PhilD Amst., Hon. DrLitt&Phil Ghent, Prof.  
MED  
du Plessis, P. J. J., BA Stell., DEd Sr Lectr.  
1 Tech. Asst., 3 Lectrs †

## **General Didactics and History of Education**

du Toit, J. J., DraPed Amst., DEd Potchef. Prof.  
van der Stoep, F., BA BED Lectr.

## **History of Education in South Africa**

Pelzer, A. N., MA DPhil (on leave) Prof

## **Nursery School Training**

Naudé, Helena J., BA(SW) BED Lectr.

## **Philosophy of Education**

Oberholzer, C. K., BA S.A., MA DPhil DEd Prof.

## **Physical Education**

Smut, C., BA Caps T., DipPhysEd Berl. Prof.  
Schrecker, K. A., DipPhysEd Berl. Sr Lectr.  
van der Merwe, G. W., BSc BEdPh Stell, MSc Indiana Sr Lectr.  
Robertson, Gertrud, PhysEdDip Basle Lectr.  
Jooste, M., BScEdPh Stell, BED Lectr.

# **ENGINEERING**

## **Agricultural Engineering**

van Heerden, S. J. P. K., PhD(AgEng) Misk, MSc(AgriEng) (on leave) Prof.  
Grobler, B. J., BSc(AgriEng) Sr Lectr.  
Venter, G., BSc(AgriEng) Sr Lectr.  
Lectr.

**Chemical Engineering**

Schoeman, D. J., MSc(Eng) PhD *Rand* Prof.  
 Rast, J. D., BSc(Eng) *Rand*, PhD *Tor.* Sr. Lectr.  
 Nel, C. J., BSc(Eng) *Rand* Lectr.

**Civil Engineering**

de Vos, D. W., BSc(Eng) *Rand* Prof.  
 van Rooyen, M., BSc(Eng) *Stell.*, MS *Joos*,  
 PhD *Prim.* Sr. Lectr.  
 von Willich, G. P. R., BSc(Eng) *Rand*,  
 ScD *M.I.T.* Sr. Lectr.  
 Wolmarans, D. G. S., BSc BSc(Eng) *Stell.* Lectr.  
 van Wyk, B. C., MSc(Eng) *Rand* Lectr.  
 Wessels, C. J., BSc(Eng) *Rand* Lectr.

**Electrical Engineering**

Heymans, P. G., MSc(Eng) *Rand* Prof.  
 van Nieuwerk, T., BSc(Eng) *Rand* Sr. Lectr.  
 Wessels, N., BSc(Eng) *Cape T.* Sr. Lectr.  
 Adendorp, K., BSc(Eng) *Rand* Lectr.  
 van Biljon, L., MSc(Eng) *Rand* (on leave) Lectr.  
 Lombard, J. A., BSc(Eng) *Stell.* Lectr.  
 1 Tech. Asst.

**Mechanical Engineering**

du Toit, C. A., BSc(Eng) *Rand*, BSc Prof.  
 Roux, A. J. A., DSc(Eng) *Rand* Hon. Prof.  
 Botha, J. P., MSc(Eng) *Stell.*, PhD *Camb.* Lectr.  
 Van Swieten, P., Dip(Eng) *T.H.Delft* Sr. Lectr.  
 Visser, J., BSc(Eng) *Rand* Sr. Lectr.  
 Kemp, J. F., MSc(Eng) PhD Sr. Lectr.  
 van der Merwe, D. F., BSc *Stell.* Lectr.  
 Lewis, W. G., BSc Lectr.  
 Rautenbach, N. O., BSc(Eng) *Rand* Lectr.

**Metallurgy and Metallurgical Engineering**

le Roux, D. B., BSc(Eng) *Rand*  
 (Metall.) Iscar Prof.  
 van Rooyen, G. T., BSc(Eng) *Rand*,  
 ScD *M.I.T.*, MCom(B&A) Lectr.  
 Hoffman, J. P., Sr. Lectr.  
 van Nieuwerk, M. N., BSc(Eng) *Rand* Lectr.  
 Vorster, S. W., BSc Lectr.

**Surveying and Town Planning**

Maré, W., BSc(Eng) *Rand*, MSc Sr. Lectr.  
 van der Walt, J. H., BSc *S.A.* Lectr.  
 Mares, N., BSc(Surv) *Cape T.*, MSc *Stell.* Lectr.  
 3 Lectrs.]

**LAW****Bantu Law**

Maré, J. A. G., BA *Stell.*, LLB Prof.

**Criminal, Constitutional and Administrative Law, Public International Law**

Schmidt, C. W. H., BA LLB *O.F.S.* Prof.  
 van Rooyen, P. R., BA LLB [Lectr.

**Mercantile Law**

Hamman, E. M., LL.D. *Ley*, BA LLB Prof.  
 Mostert, D. F., BA LLB Sr. Lectr.  
 Joubert, D. J., BA LLB Sr. Lectr.

**Procedure and Evidence**

Loots, J. J., BA LLB †Sr. Lectr.

**Roman-Dutch Law, International Private Law, Comparative Law**

van der Merwe, N. J., BA LLB *Stell.*,  
 LL.D. *O.F.S.* Prof.  
 Olivier, P. J. J., BA LLB Lectr.  
 Spoelstra, J. J., BA LLB †Lectr.  
 1 Lectr. †

**Roman Law and Jurisprudence**

van Warmelo, P., LL.D. *Ley*, BA LLB Prof.  
 de Villiers, I. W. B., BA *O.F.S.*, LLB Lectr.  
 2 Lectrs. †

**MEDICINE****Anaesthetics**

Kok, O. V. S., MB ChB *Cape T.*, DTM *Lew.*,  
 FFARCS Prof.  
 Combranch, Miss. Johanna E., MB  
 BCh *Rand*, DA Sr. Lectr.  
 Cilliers, H. J., MB ChB *Cape T.* Lectr.  
 5 Lectrs. †, 1 Jr. Lectr., 2 Asst. Anaesths.,  
 7 Clin. Assts.

**Anatomy and Histology**

Muller, Mrs. Tobie, MB ChB *Cape* Prof.  
 Mihalik, P., MD *Bud.* (Histol.) Sr. Lectr.  
 Jonck, L. M., BChD MSc (on leave) Sr. Lectr.  
 van Nieuwerk, I. J. M., MB ChB Sr. Lectr.  
 Strauss, P. J., MB ChB Lectr.  
 2 Lectrs. †, 4 Tech. Assts.

**Bacteriology, see Pathol. and Microbiol.****Children's Diseases**

Davel, J. G. A., MSc *S.A.*, MA BM BCh *Oxon.*,  
 DCH, MRCP, FRCPed Prof.  
 Pennall, L., MD *Rand*, DCH †Sr. Lectr.  
 Passer, E., MD *Rand* †Sr. Lectr.  
 Cronje, R. E., MB BCh *Rand*, MRCPed

Sr. Lectr.  
 Pretorius, P. J., MD ChB †Sr. Lectr.  
 5 Lectrs. †, 4 Clin. Assts.

**Diseases of the Ear, Nose and Throat**

Hofmeyr, J. H., BSc MB ChB *Cape T.*,  
 FRCPed †Sr. Lectr.  
 Swanspoel, K. J., MB BCh *Dub.*, DLO †Sr. Lectr.  
 2 Clin. Assts.

**Diseases of the Eye**

Meyer, H., MB ChB MMed †Sr. Lectr.  
 1 Lectr. †, 2 Clin. Assts.

**Diseases of the Skin, see Med., below****Forensic Medicine**

Loubser, C. J. N., BSc *Stell*, BA MB  
BCh Dub., MD DPH Rand †Prof.

**Gynaecology and Obstetrics**

Goldenhuyse, F. G., MB BCh Rand, MD,  
FRCOG Prof  
de Groen, L. J., Arts *Assn.*, Hon MD,  
FRCOG Hon Prof.  
Evans, W. B. D. I., DipO&G Rand Sr. Lectr.  
Krieger, C. F., BA BM BCh DTM,  
FRCS Hon. Lectr.  
4 Lectrs., 4 Clin. Assts., 1 House Doctor

**History of Medicine**

Grotepass, F. W. K., DrPhil *Gott* Hon. Lectr.

**Hospital Administration and Organization**

Voets, J. D., MB ChB Cape T Lectr.

**Infectious Diseases**

Nelson, H., MA MD BCh BAO Dub., DPH  
DTM Rand †Sr. Lectr.  
Bodenstab, A. T. B. H., MB ChB Cape T,  
DPH DTH&Hy Rand †Lectr.

**Medical Ethics**

..... Lectr

**Medicine**

Snyman, H. W., MB BCh Rand, MD *Gran.* Prof.  
(Neurol.) Sr. Lectr.  
Seymour, G. E. J., MB ChB MMed Lectr.  
Mallurba, L. F., BSc(Eng) MB BCh Rand,  
MMed Sr. Lectr.  
Kloppers, P. J., MD Rand †Sr. Lectr.  
du Toit, J., MB ChB Cape T., MRCPed  
†Sr. Lectr.  
Findlay, G. H., BSc MB BCh Rand, MD  
(Diseases of the Skin) †Sr. Lectr.  
Westra, L. M., MB BCh Rand, MD †Sr. Lectr.  
Zandy, F., MB ChB Cape T., MD, MRCP  
†Sr. Lectr.  
Epstein, H. D., MB ChB *Edin.*  
(Phys. M.) Sr. Lectr.  
5 Lectrs., 17 Clin. Assts., 1 Tech. Asst.

**Microbiology**

Coetzee, J. N., MD Cape T. Prof.  
Piper, A., MB ChB *Ley.*, Hon. MD  
Cape T., DipTropMed *Hamburg.*  
DSc Emer. Prof.  
Sucha, T. G., MMed Cape T., MB ChB  
Sr. Lectr.  
Cloos, Clarice G., MSc Rand, PhD *S.A.*  
Lectr.  
de Klerk, H. C., MB ChB Lectr.

**Orthopaedics, see Surg.****Pathological Anatomy**

Barnetson, J., MB ChB *Edin.*, DTM&H Rand,  
MD Prof., Dir. Inst. of Pathol.  
de Villiers, L. S., MB ChB MMed  
(Chem P) Sr. Lectr.  
Samson, I. W., MB BCh Rand Sr. Lectr.  
Kingsley, C. S., MB BCh Rand, MD  
(Histopathol.) Lectr.  
1 Jr. Lectr., 42 Tech. Assts.

**Pharmacology**

Bocha, D., MB ChB MMed Prof.  
1 Temp. Demr., 1 Tech. Asst. †Sr. Lectr.

**Physiology and Biochemistry**

Meyer, B. J., MSc MEd *Stell*, DSc MB ChB  
Prof.  
Grotepass, F. W. K., DrPhil *Gott.*  
(Biochem.) Assoc. Prof.  
Labuschagne, C. J., MSc *Stell*, PhD Cape T.  
Sr. Lectr.  
Rennie, J., MSc *Stell* Sr. Lectr.  
Holemans, K., MD *Lowen.* Sr. Lectr.  
Booyens, J., MSc *Potchef.*, PhD *Camb.* Lectr.  
Smit, Z. M., MScAgric (Biochem.) Lectr.  
3 Tech. Assts., 1 Demr.

**Preventive and Promotive Medicine**

Strating, A., BA(SW) MCom(B&A) DPH  
DTM&H Rand, MB ChB Sr. Lectr.

**Psychiatry**

Lamont, A. McE., MD *Glas.* †Prof.  
de Plessis, D., MB ChB Cape T. †Lectr.  
1 Clin. Asst., 2 Demrs

**Public Health, see Preventive and Promotive Med.****Radio-Diagnosis**

Oosthuizen, S. F., MD Cape T., DMR *Low.*,  
Hon. DSc *Natal*, DSc, FRCP, FFR Prof.  
Spangenberg, B., MB ChB MMed DPH  
Sr. Lectr.  
Weinberg, M., BSc *S.A.*, DMRE *Camb.*,  
FFR Hon. Lectr.  
Ali, J. E. B., MB BCh Rand,  
FRCSed Lectr.  
1 Lectr., 6 Clin. Assts.

**Radio-Therapy**

Fichardt, T., DMRE *Camb.*, MD DSc,  
MRCP Prof.  
Jacobs, E. L., MB ChB *Edin.*, BA *S.A.*,  
DMR MD †Sr. Lectr.  
Weinberg, M., BSc *S.A.*, DMRE *Camb.*,  
FFR Hon. Lectr.  
1 Clin. Asst.

**Surgery**

Derksen, C., MB ChB Cape T., MCh †Prof.  
 Besselen, H. J., MD Ziv Hon. Prof.  
 Schultzeberg, C. A. R., MB ChM Cape T.,  
 DMR MD †Sr. Lectr.

Lambaud, C. M., MB ChB MMed  
 (Neuro-Surg.) †Sr. Lectr.  
 (Neuro-Surg.) Sr. Lectr.  
 van der Spuy, J. C., MB ChM Rand

Botha, D. J., MB ChB MMed †Sr. Lectr.  
 du Toit, J. G., MB ChM Cape T.,  
 FRCSd (Orthop.) Sr. Lectr.

Hugo, P. A. (Plastic S.) †Sr. Lectr.

Mnais, T. J., MB ChB Cape T.,  
 MMed †Sr. Lectr.

Mans, I. F., MB ChM (Urol.) †Sr. Lectr.  
 6 Lectrs., 13 Clin. Assts., 1 Tech. Asst.

**Venerical Diseases**

2 Lectrs.

**THEOLOGY****(a) Dutch Reformed Church of Africa**

van Rensburg, S. P. J. J., BA DD  
 (New Test. Exegesis & Theol.) Prof.

Mulder, B. S., BA BD S.A., TheolDra Utrecht,  
 DD Gron

(Old Test. Exegesis & Theol.) Prof.

Pont, A. D., DD Utrecht, BD MA  
 (Hist. of Christianity) Prof.

van Zyl, F. J., BA DD  
 (Philos. of Religion & Missions) Prof.

Engelbrecht, B. J., DD Gron, BA BD  
 (Christian Ethics & Dogma) Prof.

..... (Practical Theol.) Prof.

**(b) Dutch Reformed Church**

Greenewald, E. P., MA Stell., ThD Aust.  
 (New Test. Exegesis & Theol.) Prof.

Kintzings, J. H., MA Stell., ThD Aust.  
 (Old Test. Exegesis & Theol.) Prof.

Mais, B. J., MA DPhil Stell., MTh Pwm  
 (Church Hist. Hist. of Dogma &  
 Canon Law) Prof.

du Preez, A. B., MA Stell., ThD Aust.  
 (Philos. of Religion, Dogma &  
 Christian Ethics) Prof.

du Toit, H. D. A., BA Cape T., ThDra Aust.,  
 DD (Philos. of Religion & Missions) Prof.

..... (Practical Theol.) Prof.

**VETERINARY SCIENCE****Genesiology**

van Heerden, J. S., BVSc Prof.  
 McFarlane, I. S., BVSc Sr. Lectr.

**Veterinary Anatomy**

de Bloem, H. P. A., BVSc Prof.

le Roux, J. M. W., DrMedVet Hannover,  
 BVSc Sr. Lectr.

Gerneke, W. H., BSc S A Lectr.  
 de Wet, P. D., BVSc Lectr.

**Veterinary Infectious Diseases**

Alexander, R. A., BSc(Agric) S.A.,  
 Hon. DSc Cape T., DVSc (Virol.) Prof.

Neitz, W. O., DVSc (Protozool.) Assoc. Prof.  
 van Drimmelen, G. C., DVSc

Jansen, B. C., DVSc (Bacteriol.) Assoc. Prof.  
 Lambrechts, M. C., BVSc (Bacteriol.) Assoc. Prof.

Weiss, K. E., DVSc (Vet. State Med.) Sr. Lectr.

(Protozool. & Virol.) Sr. Lectr.

**Veterinary Medicine**

van der Walt, K., BVSc Prof.  
 Adelaar, T. F., BVSc (Toxicol.) Sr. Lectr.

Loveday, R. K., BVSc Sr. Lectr.

Malherbe, W. D., BVSc (Clin. Pathol.) Sr. Lectr.

Muller, C. J., BSc Stell., BVSc Sr. Lectr.

Abrams, L., BVSc (Poultry Dis.) Sr. Lectr.

..... †Sr. Lectr.

**Veterinary Parasitology**

du Toit, R. M., DVSc S A (Entomol.) Prof.  
 Reinecke, R. K., DVSc (Helminthol.) Sr. Lectr.

**Veterinary Pathology**

Schulze, K. C. A., BSc BVSc S A,  
 DrMedVet Lap. Prof.

Smit, J. D., BVSc Sr. Lectr.

van den Heever, L. W., BVSc Sr. Lectr.

**Veterinary Physiology**

Clark, R., DVSc Prof.  
 (Chem. Pathol.) Sr. Lectr.

Mellich-Brown, J. M. M., BVSc Sr. Lectr.

Grasskopf, J. F. W., BVSc (Biochem.) Sr. Lectr.

Mansvelt, P. R., BVSc Sr. Lectr.

**Veterinary Surgery and Obstetrics**

Hofmeyr, C. F. B., BVSc Prof.  
 Irwin, D. H. G., BVSc Sr. Lectr.

**Zootechnics**

..... Prof.  
 Sutton, G. D., BVSc

(Animal Management & Hyg.) Sr. Lectr.

Kellermann, J. H., DSc(Agric) Stell.,  
 PhD Wits (Animal Nutri.) Sr. Lectr.

Mosses, J. J., BSc S A (Wild Management) Sr. Lectr.

In addition to the above, there is a considerable  
 number of Demos., chiefly in the Fac. of Sci.

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. Asst. Registrar: C. H. Stuart, MAdmin. Asst. Accountant: B. Q. Wessels, BCom *Stell.*, MCom(B&A). Liaison Officer: C. H. Cilliers, BSc BCom. Technical Adviser: F. W. Moerkotter. Student Coun-

sellor: J. A. J. van Vuren, MEd. Potchef, BSc MA BEd.

CHAPELAIN: Rev. J. E. Potgieter, Rev. Dr. I. J. de Wet.

## GENERAL INFORMATION

Founded 1908, when univ. classes in arts, sci. and law were established at Pretoria by the Transvaal govt. and placed under the control of the council of the Transvaal Univ. Coll., Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A separation took place in 1910, the Johannesburg section being reincorporated as the S. A. Sch. of Mines and Technol., whilst the Pretoria section retained the name of the Transvaal Univ. Coll. The facs. of agric. (1917), theol. (1918), comm. & pub. admin. (1919), vet. sci. (1920), mine (1923), had also been establd. when by act no. 13 of 1930 the coll. was incorporated as the Univ. of Pretoria. The following facs. have been establd. since 1930: educn., med., dent., engin.

Pretoria (pop. 449,500 in metropolitan area) is the capital of the province of Transvaal and the admin. centre of the Republic of South Africa.

CONSTITUTION. The univ. consists of the chancellor, the vice-chancellor, the rector, the council, the senate and convocation, together with the profs., other teachers and students of the univ. The rector is *ex-officio* chairman of the senate.

INCOME. R2,638,912 (govt. grants, 65.8 per cent.; annual grants from public bodies, 0.5 per cent.; students' fees, 33.6 per cent.).

FACULTIES AND DEANS. *Agric.*, Prof. P. C. J. Oberholzer (hort.), *arts*, Prof. A. N. Pelzer (hist.); *comm. & pub. admin.*, Prof. H. J. J. Reyniers (comm. & indust. econ.); *dent.*, Prof. C. L. de Jager (dent. pathol.); *educn.*, Prof. B. F. Nel (educn. psychol.); *engin.*, Prof. C. A. du Toit (mech. engin.); *law*, Prof. E. M. Hamman (mercantile law); *med.*, Prof. J. G. Davet (child dis.), *sci.*, Prof. W. E. Sebale (meas. & analyt. chem.), *theol.*, Prof. E. S. Mulder and Prof. E. P. Groenewald; *vet. sci.*, Prof. R. M. de Toit (vet. parasitol.).

In the fac. of agric., particular attention is paid to study of farming in summer rainfall area of S.A. There is an experimental farm (tel.: 4-4517) 1 mil. east of main univ. site. The fac. has two functions: (a) it serves as teaching instn. for trng. of agriculturists and agric. engineers. Courses for bachelor's degrees cover 4 yrs. and candidates may specialize in any branch of agric. Postgrad. work may be undertaken, and about 33 per cent. of students enrolled follow postgrad. courses. (b) It is also a res. instn. whose work falls under direct control of dept. of agric. of

the union govt. In this respect it functions as a division of the dept.

The fac. of vet. sci. (tel. 5-3861) was grafted on to the vet. res. lab. at Onderstepoort. The most important subjects of res. comprise protozool., virus and bacterial diseases, gonorrhea, helminthol., entomol., poisonous plants, mineral metabolism and other nutritional problems, sterility in cattle and sheep, and other obstet. and physiol. problems.

The clin. bldgs. of the fac. of med. are in the grounds of Pretoria General Hosp. (tel.: 2-9741). The inst. of pathol. is in Beatrix St., Pretoria (tel.: 3-0811). The Dental and Oral Hosp. is also in Beatrix St. (tel.: 2-6404).

LIBRARY. 246,378 vols., abstr. current periodicals. Sp. collections: Africana, Goethe, Roman and Dutch law.

LABORATORIES, ETC. Appl. maths., bot., plant physiol., chem., entomol., geog., geol., phys., psychol., zool., agric. bot., agric. chem., agric., vet. anat., sheep & wool, dom. sci., gen. & clin. anat., histol., physiol., biochem., bacteriol., clin. pathol., pathol. anat., pharmacol., med., agric. engin., mine, dent. histol., dent. mech., oper. dent., dent. prosth., dent. surg. BOTANICAL GARDEN in univ. grounds and an univ. exper. farm. VETERINARY RES. INST. CHILD GUIDANCE CLINIC. INST. OF PATHOL. MARGARETHA MRS INST. OF PLANT PHYSIOL. RES. INST. OF BUSINESS ADMINISTRATION.

TEACHING HOSPITALS. Pretoria General H., Moedersband Maternity H., Univ. Dental & Oral H.

ADMISSION. See p. 1456. Non-members of univ. not admitted to classes.

FIRST DEGREE. 3 yrs.—BA (11 courses: 5 in 1st yr., 4 in 2nd yr., 2 in 3rd yr., the last being major subjs. taken for 3 yrs. and to be passed simultaneously; at least 1 ancillary on 2-yr. basis; compulsory ancillaries prescribed for certain majors), BA(SW), BAdmin, BCom, BSc (9 courses: 4 in 1st yr., 3 in 2nd yr., 2 in 3rd yr., the last being major subjs. taken for 3 yrs. and to be passed simultaneously; compulsory ancillaries for certain majors), BSc(Dietet.), BA(Lib. Sc.), BA(EdPhys), BHum. 4 yrs.—combined course BA(SW) and dipl. for nursery sch. teachers, and combined course BA and lower dipl. in libr. sci., BA(FineArts), BA(Logg.), BMus, BSc(Agric.), BSc(DomSc), BSc(LandSurv), BScEng (in agric.,

chem., civil, elect., indust., mech., metall., mining engin.—5 yrs.—BSc(QS), BVSc, 5½ yrs.—BChD 6 yrs.—BArch, MB ChB.

**HIGHER DEGREES.** Hons. degrees: BA (in any of the following: Bantu langs., Dutch & Afrikaans, econ., Engl.; French, geog., German, Greek, Hebrew, hist. hist. of Afrik cult., hist. of art, Latin, maths., maths. & stats., mathl. stats., philos., pol., psychol., sociol., soc. anthropol., appl. soc. anthropol.), BA(SW), BA(LibSci), BA(EdPhys), BSc (in any of the following appl. maths., chem., geog., geol., maths., maths. & stats., mathl. stats., metallurgy), BSc(Dietet), BCom, BAdmin—*not less than 1 yr. after corresp. first bachelor's degree* MA, MA(SW), MA (LibSci)—*not less than 1 semester after hons. degree which is a prerequisite for admission to master's degree in fac. of arts* MA(FineArts), MAdm., MCom, MSc, MSc(DomSci), MArch, MSc(QS)—*not less than 18 mos. after corresp. bachelor's degree, the hons. degree before admission to master's degree is optional in fac. of sci. and comm. & pub. admin.* MSc(Agric)—*not less than 1 yr. after corresp. bachelor's degree* BEd—*not less than 1 yr. after bachelor's degree and higher dipl. in educ. or equiv. dipl.* MSc(Eng), MSc(Land Surv)—*not less than 2 yrs. after bachelor's degree*; MScTown&RegPlan—*not less than 3 yrs. after bachelor's degree* MMedVet—*in physiol.*—2 yrs. of study after award of BVSc, in remaining fields—3 yrs. of study after lapse of following periods dating from award of BVSc—*hyg.*—1 yr., pharm. & tox.—2 yrs., state vet. med. & sur., gynaeol., surg.—3 yrs. MBA—4 yrs., MMed—*not less than 2 yrs. after MB ChB and registration for 1 yr. with the S.A. Med. and Dent. Council (depts. of radiol., dermatol., diagnostic radiol., therapeutic radiol., oto-rhino-laryngol., ophthalmol., phys. med., anaesthetics, neurol.*—3 yrs., med., surg., dis. of children, obstet. & gynaeol., pathol., psychiatry—4 yrs.) MChD—3 yrs. full-time study *not less than 2 yrs. after award of BChD*, MED—1 yr. after BEd LLB—*3 yrs. after law BA or 3 yrs. after ordinary BA or other degree*; LL.M.—*not less than 1 yr. after LL.B.* MD—*not less than 2 yrs. after MB ChB*, BD—3 yrs. after BA, DLitt, DPhil (arts, comm. and pub. admin.), DSc, DCom, DBA, DMus, DEd, DEdPhys, DSc(Eng), DSc(LandSurv)—*not less than 4 yrs. from bachelor's degree or 2 yrs. from master's degree*; DSc(Agric)—*not less than 3 yrs. from BSc(Agric)*, LL.D.—*not less than 2 yrs. from LL.B.*; DD—*not less than 2 yrs. from BD*, DVSc—*not less than 4 yrs. from BVSc or 2 yrs. from BVSc if at least 1 yr. after BVSc has been spent on res. at an approved instn.*, DChD—*not less than 3 yrs. after BChD*

**HONORARY DEGREES.** DLitt, DPhil, DSc, DSc(Agric), LL.D., DD, DCom, MD, MSc(Agric), MEd. These degrees may be conferred both as honorary and 'earned'.

**DIPLOMAS.** (a) Postgrad.: indust. health, 6

months full-time or 1 yr. pt.-time, higher educn., 1 yr., med. admin., med. phys., pub. health, vet. pub. health, 1 yr. full-time or 2 yrs. pt.-time, soc. work (higher), 1 to 1½ yrs.; theol., 3 yrs.; (b) other posttherap., 1 yr. after BA hons. in psychol. or equivalent, for sister tutors in nursing, obstet., psychiatric nursing sister tutors, each 1½ yrs. after recog. nursing cert. and experience; diagnostic radiog. for nursing sisters, occupat. therapy teaching, physiotherapy teaching, each 1 yr. after recog. physiotherapy cert. and experience; lib. sci. (lower), radiog., each 2 yrs., bus. management & admin., 2 yrs. after recog. experience, comm. law (attorney's admission), law (civil action), nursing, nursery sch. teaching, phys. educn., primary teaching (higher), pub. admin., soc. work, each 3 yrs., town planning, 3 yrs. after recog. postgrad. cert., in land surv., fine arts, 4 yrs., quantity surv., 5 yrs., archit., 6 yrs.

**CERTIFICATES** Quantity surv., 5 yrs.

**Fees.** The following are the composite fees. Except where payable per course, amounts indicated are annual fees.

**Bachelor's degrees:** BA, R116-R150, BSc, R132-R150; BSc(Agric), BD, BEd, R132, BCom, BAdmin, R168, BEd, R160, BBus, R200, BSc(Eng), R150, MB ChB, BVSc, R180, BChD, R190, hons. bachelor's degrees, R100-R132 **Master's degrees** MA, LL.M., MCom, MAdm., MSc(Eng), R140, MSc, MSc(Agric), R160-R200, MEd, R70, MMus, MArch, MMed, MScLandSurv, MScTown&Reg Plan, R200, MChD, R300 **Doctor's degrees:** per course—DLitt, DPhil, LL.D., DD, DEd, R120, DMus, DSc, DSc(Agric), DVSc, R132, DSc(Eng), R150, MD, DChD, R200. **Diplomas:** lib. sci., educn., DPhil, R116, soc. sci., R122, higher dipl. soc. sci., R88, archit., quant. surv., nursing, physiotherapy, R132, DipProc, R80, vet. pub. health, R240; posttherap., R116; fine arts, R150

**ACADEMIC YEAR.** Feb. to Dec., 1 semester—Feb. to end of June, beginning of Aug. to early in Dec. **LANGUAGE OF INSTRUCTION.** Afrikaans.

**VACATION COURSES.** Short courses may be offered in bus. management & admin. and local govt. & admin. if there is sufficient demand. Occasional vacation courses for teachers.

**OPENS' POSTGRADUATE AWARDS.** National scholps, R800 p.a. for 2 yrs., H. B. Webb scholps, R300 and R700 p.a. for 2 yrs., Rhodes scholps, R300 p.a. for 2 yrs., Elsie Balliol scholps, R800 for 3 yrs., Shell scholps, R400 p.a. for 3 yrs., Oppenheimer scholps, for teaching staff, R200 for 1 yr., S.A. Breweries Ltd. scholp., R700 for 1 yr., J. and se scholps awarded by C.S.I.R. and the Nat. Council for Soc. Res. of the Union.

**UNIVERSITY RESIDENCES.** (Postal address: Univ. of Pretoria, Brooklyn, Pretoria, for all univ. residences except Onderstepoort, which is P.O. Onderstepoort.) Women's residence (for students)—warden, Mrs. Helena S. Pascoe. Asterhof (203 students)—warden, Mrs. Anna P. F. Jooste. Sonop Hostel for men (154)—primaries



elected annually from students Voortrekker Hostel for men (140) warden, Prof P. S. Dreyer, Onderstepoort Hostel (106) warden, Dr T. F. Adams New College Hostel for men (256) warden, C. L. de Wet. Tsaibos men's hall of residence (244) warden, J. A. J. van Vuuren; Klaarwyn women's residence (250) warden, Mrs. Elizabeth H. P. van der Westhuizen. Boarding fees, Voortrekker and Sonop, R214; New College and Tsaibos, R226; Asserhot and Klaarwyn and women's residence, R246 p.a.

UNIVERSITY MILITARY FORMATION. 1 observation and sound ranging battery (1 observation regiment, S.A. Artillery).

ATHLETIC FACILITIES. Gymnasiums, rugby and hockey fields, tennis courts, cinder track, jukskui and cricket pitches, netball and basket-ball fields, tennis courts and volley-ball pitch.

EXTRA-MURAL STUDIES. A special feature of the univ. is the work done in the extra-mural facilities. At 128 Princes St., Pretoria (tel. 2-4288), lectures are given, out of ordinary business hours, for the benefit of public servants, articled clerks, commercial men, and teachers. Over 1800 students are enrolled, practically all for full degree courses, courses for BA, law BA, LL.B., B.Com., B.Admn., master's degrees, degree and dipl. in business management, law cert., banker's cert., or dipl. in admin.

UNIVERSITY EXTENSION. The facs. of agric. and vet. sci. co-operate with the union dept. of agric. in connection with the extension training service organized by it. Public lectures are organized in Pretoria and surrounding districts.

PUBLICATIONS. Calendar (Nov.), free, *Bulletins* containing result of res. by members of staff.

## THE YEAR 1961

PRINCIPAL BENEFICIARIES. City council of Pretoria, annual capital grant of R20,000 plus R5000 for fac. of musee.

(Total value of all benefactions received: R70,708).

MAJOR BUILDING DEVELOPMENTS. Bldgs. completed: extension to chem bldg.; hall for musical performances ('Mission') and amphitheatre; bldg. for depts. of maths., appl. maths. and stats.

NEW DEPARTMENTS AND CHAIRS. Iscor chair of metall.

RETIREMENTS. Prof J. A. Engelbrecht (Bantu langs.), Prof M. S. B. Krutinger (Afrikaans lit.); Dr J. C. Kjek (diseases of the eye).

RESIGNATIONS. Prof D. G. Friesen (econ.), apptd. dep. govt. S.A. Reserve Bank; Prof. P. W. Hoek (acctg. & auditing), apptd. comm. manager, S.A. iron and steel corp.; Prof. D. M. Joubert (sheep husbandry & wool technol.), apptd. asst. dir. Transvaal region of div. of educn. and res., govt. dept. of agric.; Prof J. A. Voeten (agric. engin.), apptd. dir. of agric. mechaniz., govt. dept. of agric. tech. serv.

DEATHS. Emer. Prof D. J. Keet (pt of of church hist., hist. of dogms & canon law, 1938-53).

HONORARY DEGREES. *BSc(Agric)*—J. C. Faure, formerly prof. of entomol.

## Statistics

### STUDENT NUMBERS, 1962

	Intra-Mural	
	Full-Time	Part-Time
Men	4807	99
Women	1725	17
Total	6532	116
	Extra-Mural	
	Full-Time	Part-Time
Men	1621	60
Women	226	8
Total	1847	68

Distribution by Faculties. *Agric.*, 566, *arts.*, 2827; *comm.*, 660; *dent.*, 103; *educn.*, 392; *engin.*, 673; *law*, 243; *med.*, 561; *sci.*, 1619; *theol.*, 102; *vet. sci.*, 221. Total: 8367.

Included in the figures above are—

Postgraduate students, 1984 (1582 m., 202 w.).  
New admissions, 2072 (1395 m., 677 w.).

Students from other countries, 203. (Countries from which largest numbers came: S. Rhodesia, 41; N. Rhodesia, 11).

DEGREES AWARDED (1961). *Agric.*: BSc(Agric), 56; MSc(Agric), 8; DSc(Agric), 2. *Arts*: BA, 280; BA(SW), 26; BA(LibSci), 13; BA(Ed Phys), 12; BA(FineArts), 7; BA(Nursing), 12; BA(hons), 53; BA(LibSci) hons, 4; BA(SW) hons, 2; BAE(EdPhys) hons, 1; MA, 21; MA(SW), 1; DLitt, 1; DPhil, 3. *Comm.*: BAdmn., 4; BCom, 54; MCom, 11; MBA, 20. *Dent.*: BChD, 13; MChD, 1. *Educn.*: JEd, 20; MEd, 5; DEd, 1. *Engin.*: BSc(AgricEng), 9; BSc(Eng), 20; BSc(LandSurv), 5. *Law*: BLur, 2; LLB, 14. *Med.*: MB ChB, 64; MMed, 15. *Sci.*: BSc, 116; BSc(QS), 13; BArch, 13; BSc(DomSci), 6; BSc(Dietet), 6; BSc(hons), 13; MSc, 17; DSc, 8. *Theol.*: BD div A, 6; BD div B, 8; DD div A, 2; DD div B, 1. *Vet. sci.*: BVSc, 19; DVSc, 1. Total number of first degrees awarded, 738.

DIPLOMAS AWARDED (1961). *Arts*: DipLibr Sci, 3; DipSW, 2; Lower DipLibrSci, 2. *Educn.*: HED, 74; HPED, 6; DipNurserySchT, 8; DipPhysEd, 1; Teacher's Dip in Physioth., 1. *Law*: DipProc, 8; Diplur, 3. *Med.*: Dip Radiog., 20; DipNursing for Tutor Sisters, 14; DipRad Protection for Nursing Sisters, 2. *Sci.*: DipHospDietet, 2; DomSciTDip, 4; DipQS, 8; DipArch, 10. *Theol.*: DipTheol, div. B, 4.

# RHODES UNIVERSITY

Founded 1904; incorporated 1951

Postal Address P O Box 94, Grahamstown, Cape Province, South Africa  
(Port Elizabeth Division) P.O. Box 1417, Port Elizabeth, Cape Province, South Africa  
Cables and Telegrams: Rhodescol  
Telephones (General): Grahamstown 2004, Port Elizabeth 28381

## CHANCELLOR

VICE-CHANCELLOR AND PRINCIPAL—T. ALTY, PhD *Camb*, DSc *Leu*, Hon. DCL *Durk*, Hon. LLD *Glas. & Tor*, FIP, FRSCan

PRO-VICE-CHANCELLOR AND VICE-PRINCIPAL—J. V. L. REININ, MA *Cape T*, PhD *Camb*, DipGeog *Leud*, FRSSAF

CHAIRMAN OF COUNCIL—S. B. HOBSON, MA *Cape*, Hon LLD

VICE-CHAIRMAN OF COUNCIL—H. A. KENDALL

PRESIDENT OF CONVOCATION—The Hon. Mr. Justice A. G. JENNETT, BA LLB *S.A.*

REGISTRAR—R. MARVIN, OBE, MC

LIBRARIAN—F. G. VAN DER REEF, MA *Stell*, DUParis

## TEACHING STAFF

(\* = member of Port Elizabeth Division teaching staff; † = Part-Time)

### Accounting

Roberts, H. M., BCom *Rand* Prof.  
Orpen, R. D., BA BCom *Cape T* Sr. Lectr.  
Chisholm, Eugene R. \*Sr. Lectr.  
Liddell, Emer. Prof. D., MA BCom *Edin* Lectr.

### African Studies

Mayer, P., BSc DPhil *Oxon.*, DrJur *Hedel* Prof.  
Hammond-Tooke, W. D., MA PhD *Cape T* Sr. Lectr.  
Argyle, W. J., BLitt DPhil  
DipSocAnthrop *Oxon* \*Lectr.  
† Jr. Lectr.

### Afrikaans-Nederlands

Antonissen, R. K. J. E., DPhil&Lit *Leuven* Prof.  
Smuts, J., MA PhD *Cape T* Sr. Lectr.  
Truter, H. W., MA DLitt *Stell*,  
LitDra *Amst* Lectr.  
Brink, A. P., MA *Potchef* Lectr.  
† Jr. Lectr. \*

### Botany

Twyman, E. S., MSc PhD *Bum.* Prof.  
Seegriff, S. C., MSc *S.A.*, PhD *Camb*.  
Sr. Lectr.  
Jacot-Guillarmod, Mrs. Amy F. M. G.,  
MA BSc *St. And.* Lectr.  
‡ Jr. Lectr.

### Chemistry

Prout, E. G., MSc PhD *S.A.* (Phys. C) Prof.  
Nunn, J. R., MSc PhD *Cape* (Org. Chem.) Prof.  
Ruvett, D. E. A., MSc PhD *Camb* Sr. Lectr.  
‡ Jr. Lectr.

### Classics

Beumbech, Lydia, MA *Stell*, BA *Camb*. Prof.  
Sr. Lectr.  
Shelington, Mrs. Dorothy F., MA *Cape T* Lectr.  
Curry, R. F., MC, MA *Oxon*, Hon. LLD Lectr.

### Commerce

Smith, H. H., MCom *S.A.*, PhD Prof.  
Drennon, F. E., BCom *Edin* *S.A.* \*Sr. Lectr.  
‡ Lectr.

### Divinity

Maxwell, W. D., TD, BA BD *Tor*, PhD  
DLitt *Edin*, DD *Glas*. Prof., Hd. of Dept.  
Hewson, Rev. L. A., BA *Rand*, MA *Camb*.  
PhD (New Test.) Prof.  
Hinchliff, Canon P. B., BA *S.A.* & *Oxon*,  
PhD (Eccl. Hist.) Prof.  
Casser, Rev. W., MA BD *Glas*, DD *S.A.*,  
BThéol *Stras*. Sr. Lectr.  
‡ Lectr.†

‡ Member of the Association of Universities of the British Commonwealth

- Economics**  
 Houghton, D. H., MA Oxon., BA S.A. Prof.  
 Fourns, L., BA S.A., MA Stell. Sr. Lectr.  
 Bell, R. T., MA *Vanderbilt*, BCom. Lectr.  
 Orkin, Jennifer L. R., BA Oxon. & Rhodes. Lectr.  
 Strauss, C. B., MA Camb., PhD \*Lectr.
- Education**  
 Morton, D. M., BSc MA EdB Glas. Prof  
 Gerber, J. J., BSc Stell., MEd S.A. Prof  
 7 Lectrs †
- English**  
 Butler, F. G., MA S.A., BA Oxon. Prof  
 Terry, W. D., BA Rand, MA Camb., D Litt S.A. Sr Lectr  
 Ayling, R. F., BA Nott. Lectr  
 Shum, Mrs. Julia M., BA(FA) BA S.A. \*Lectr  
 De Villiers, D. R. W., MA Lectr  
 Harber, E., BA Natal Lectr  
 Walker, G. M., MA Glas. Lectr.  
 3 Jr Lectrs
- Entomology, see Zool. and Entomol.**
- Fine Arts**  
 Bradshaw, B. Prof  
 Gorton, Mrs. Natalie M., BA(FA) S.A. Sr. Lectr.  
 Ewan, A. W. Lectr.  
 Nell, J. A. Lectr.  
 1 Jr. Lectr., 1 Instr.
- French**  
 Cattanéo, J. L., MA S.A., Cert Inst. de Phén., Paris Prof.  
 Nixon, Mrs. Hélène L., BA Natal & S.A. Lectr.  
 \*Lectr
- Geography**  
 Rennie, J. V. L., MA Cape T., PhD Camb., DipGeog Lond., FRSSA Prof.  
 Forbes, V. S., MA Camb., PhD Sr Lectr.  
 Childs, N. T., BA Lectr.  
 Robinson, G., BA Camb. \*Lectr.
- Geology**  
 Mountain, E. D., MA Camb., DSc S.A. Prof.  
 Ruddock, A., MSc Durh. Sr. Lectr.  
 Eales, H. V., PhD Lectr.
- German**  
 Erbe, H. E. W., PhD Jena Prof.
- History**  
 Maxwell, Mrs. Winifred A., MA BLitt Oxon. Prof.  
 ... Sr Lectr  
 Hunt, K. S., MA Lectr  
 Goodfellow, C. F., BA Oxon. Lectr.  
 Nicholas, Brenda M., BA Natal \*Lectr.  
 2 Jr Lectrs
- Ichthyology**  
 Smith, J. L. B., BA Cape, MSc Stell., PhD Camb., FRSSA Res. Prof.
- Law**  
 McKerron, R. G., QC, MA Aberd. & Oxon, DCL Oxon. Prof.  
 Copeland, L. H., QC, BA Oxon. Sr Lectr.  
 Kerr, A. J., BA S.A., LLB Rand, LL.M Natal Sr Lectr  
 Jones, R. W., BA LLB S.A., BCL Oxon. Lectr.  
 3 Lectrs. †
- Mathematics**  
 Cruise, S. E., MA Camb. (Pure M.) Prof.  
 Basse, R. N., MSc Copenhagen, BSc S.A. Sr. Lectr.  
 Weigert, H., MSc Stell., PhilDis Ley. Sr Lectr.  
 Puck, J. R. G., MSc S.A. Lectr.  
 Müller, E. R., MSc Natal Lectr.  
 Fiankol, Mrs. E. R., BA Rand \*Lectr.  
 2 Jr. Lectrs
- Music**  
 Gruber, G., DrPhil Vienna Prof.  
 Mayr, R., DrPhil Innsbruck Sr. Lectr.  
 6 Practical Teachers
- Pharmacy**  
 Price, H., FRIC Prof.  
 Roberts, G. H., MSc Belf. Sr. Lectr.  
 Spenceley, Mrs. Sylvia G., BPharm Wales Lectr.
- Philosophy and Politics**  
 Oosthuizen, D. C. S., MA Stell., PhilDis Durh. Prof.  
 Beard, T. V. R., BA Natal & Oxon. Sr. Lectr.  
 Evans, C. O., BA Rand & Oxon. Lectr.  
 1 Jr. Lectr.
- Physical Education**  
 Locke, E. E., BSc S.A. Sr. Lectr.  
 Hemrich, Miss Christa, Universitäts-dipl. Barl. Lectr.  
 Coghlan, D. V. Lectr.
- Physics**  
 Gledhill, J. A., PhD Yale & S.A., MSc S.A. Prof.  
 Helm, H., MSc Cape T. Sr. Lectr.  
 Baart, E. R., PhD Lus., BSc Sr. Lectr.  
 1 Jr. Lectr.
- Politics, see Philos. and Pol.**
- Psychology**  
 Wild, E. H., PhD Lond., MSc S.A., FRPS Prof.  
 Williams, W. H., BA BED Melb., MA EdD Stan. Sr. Lectr.  
 Becker, W., MA Potsd. Lectr.  
 Du Preez, P. J., BSc Rand & S.A., MSc Cape T. \*Lectr.

## Social Science

Irving, J., MA Camb., DPhil S.A. Prof.  
 Witte, H. L., BA S.A. & Rhodes, PhD Sr. Lectr.  
 La Grange, Mrs. Frieda H., MA(SocSci) Stell. Lectr.

## Zoology and Entomology

Ewer, D. W., MBE, MA Camb., PhD Burs., FRSSA Prof.  
 van Hille, J. C., MSc PhD Utrecht Sr. Lectr.  
 Callan, E. McC., BSc Manc., DIC, PhD Lond. Sr. Lectr.  
 Alexander, Anne J., BSc Natal, PhD Lectr.

Alberts, L. E., BSc Prof.  
 3 Jr. Lectrs.

Lectr.

## INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

Houghton, D. H., MA Oxon., BA S.A. Chairman, Bd of Management  
 Agar-Hamilton, J. A. I., MA Cape T., BLitt Oxon. Dir.  
 Pauw, B. A., MA BD Stell., PhD Cape T. Res. Officer  
 5 Jr. Res. Officers Res. Officer

## ADMINISTRATIVE AND OTHER STAFF

Accountant: D. F. Blum, Asst. Registrar (Academic). W. J. Askew, BCom Natal, Asst. Registrar (Estate & Bldgs). F. W. Armitage, MA Oxon., Admin. Asst. Doreen D. Light, Librarian, R. Musker, BSc Rand, Lab Dip Cape T. Dean of Students: H. J. Chapman, MBE, BA LLB S.A. Catering Manager: F. D. Soden

Margaret Iggesden, MA Oxon., Orrell Hall  
 Mrs. Pauline A. Sutton, BSc S.A.; Milner Hall  
 Mrs. Frieda H. La Grange, MA(SocSci) Stell., Jan Smuts Hall  
 H. J. Chapman, MBE, BA LLB S.A., Founders Hall  
 J. J. Gerber, BSc Stell., MED S.A., Dronddy Hall  
 H. M. Roberts, BCom Rand, Piet Retief Hall  
 Rev. L. A. Hewson, BA Rand, MA Camb., PhD, Thomas Fringle Hall  
 E. E. Baart, PhD Lev., BSc

WARDENS OF RESIDENCES St. Mary's Hall.

## ASSOCIATED INSTITUTIONS

LEATHER INDUSTRIES RESEARCH INSTITUTE (tel. Grahamstown 720). Incorporated 1946. Under control of C.S.I.R. Dir. & Res. Prof.—S. G. Shuttleworth, MSc PhD S.A., FRIC.

S.A. WOOL TEXTILE RESEARCH INSTITUTE (tel. Grahamstown 1574). Incorporated 1953. Under control of C.S.I.R. Dir. & Res. Prof.—C. C. Kritzinger, MSc Stell., MS Cam., PhD S.A.

## GENERAL INFORMATION

The beginnings of Rhodes Univ. date from 1855, when St. Andrew's Coll. was founded at Grahamstown. For many yrs. the sch. prepared students for degree exams., as well as for the usual sch. exams. In 1878 the sch. establd a separate coll. dept. for the purpose of preparing students for the exams. of the Univ. of the Cape of Good Hope. In 1904, generous financial support from the Rhodes trustees, the citizens of Grahamstown and the public bodies of the Eastern Cape, made it possible to separate this coll. dept. from the sch., and it was incorporated by act of parliament as Rhodes Univ. Coll. The coll. continued to prepare students for the degrees of the Univ. of the Cape of Good Hope until 1916, when it became a constituent coll. of the Univ. of S. Africa. In 1946, parliament passed an act incorporating the coll. as Rhodes Univ., which came into being on March 10, 1951. From the same date (up to 1959), the S. African Native Coll. (now the Univ. Coll. of Port Hare) was affiliated to the new Univ.

The Univ. now owns an impressive array of bldgs. erected progressively since 1914 on an excellent site, the nucleus of which was donated

to the coll. by the govt. All the bldgs., which comprise admin., academic and residential blocks, are situated within easy reach of one another, and of the Univ. sports fields.

Grahamstown is a town with a population of about 32,000 of whom over half are non-white. The students of the Univ. are, however, drawn from all parts of the Union and the Fed. of Rhodesia & Nyasaland.

PORT ELIZABETH DIVISION In 1961 a div. of the Univ. was inaugurated in Port Elizabeth, a town of 270,000 inhabitants, of whom about 160,000 are non-white, situated on the coast 80 miles from Grahamstown. Tuition is offered for the BA, BCom & BSocSc degrees, the lower secondary teachn's dipl. and the cert. in the theory of accountancy; it is hoped to extend the range of courses in future yrs.

CONSTITUTION. The Univ. consists of the chancellor, the principal, who is *ex officio* the vice-chancellor, the vice-principal, who is *ex officio* the pro-vice-chancellor, the council, senate and convocation, together with the profs., lectrs., other teachers and the students.

## LANGUAGE OF INSTRUCTION English.

**INCOME.** (1961) R1,161,812 (govt. grant, 53 per cent, hostel fees, 28 per cent, academic fees, 17 per cent.; other sources, 2 per cent)

**FACULTIES AND DEANS** (1962). Arts, Prof. R. K. J. E. Antonissen (Afrikaners-Nederlands); comm., Prof. H. M. Roberts (accg); alt., Prof. W. D. Maxwell; educn., Prof. D. M. Morton; law, Prof. R. G. McKerron; sci., Prof. D. W. Ewer (2001); soc. sci., Prof. J. Irving.

**LIBRARY** Over 200,000 vols, excl. unbound periodicals, pamphlets, etc. The Cory library contains a collection of material relating to the hist. of the Eastern Cape Province.

**ADMISSION.** See p. 1456. Non-matriculated candidates may be admitted to certain dipl. and cert. courses.

**FIRST DEGREES** BA, BSc, BSc(Pharm), BCom, BEcon, BSocSci—3 yrs.; BA(FA), BMus—4 yrs. The hon. degree in arts, fine arts, sci., comm., econ. and soc. sci. requires 1 yr. of study after the ordinary degree. In arts and soc. sci., however, an hon. degree may also be taken as a 1st degree after 4 yrs' study, without obtaining the ordinary degree. In this course there is more specialization in the 3rd and 4th yrs than in the more usual method of taking an ordinary degree first. Hon. degrees may be taken in the following subjects: a Bantu lang., Afrikaans-Nederlands; appl. matha., bot.; chem.; classics; comm.; econ.; Engl.; entomol.; fine art, French; geog.; geol.; German, Greek; hist., Latin; maths.; pharm.; philos.; philos., pol. & econ.; pol.; psychol.; social; soc. anthropol.; zool.; or a combination of any 2 approved langs.

**HIGHER DEGREES** BEd, LLB, BD—2 yrs. of instrcn. following an approved degree in another fac. By res.: MA, MA(FA), MSc, MCom, MEcon, MSocSci—1 yr. after hon. degree; MMus, MEd, LL.M.—1 yr. after BMus, BEd, LLB, respectively; PhD (all facs. except law)—2 yrs. after master's degree or 3 yrs. after hon. degree; DLitt, DSc, DEcon, LL.D., DSocSci, DMus—4 yrs. after master's degree or 5 yrs. after hon. degree or BEd, LLB, BD. All the doctorates may also be awarded as honorary degrees. The higher degrees are open to grads. of other univs provided they attend Rhodes Univ for an approved period.

**DIPLOMAS.** 1 yr.—leather sci., educn., soc. work, personnel welfare & management (all post-grad.); 2 yrs.—soc. studies (non-grad.); 3 yrs.—law, theol., music, lower secondary teacher (all non-grad.); 4 yrs.—fine art, art teacher (both non-grad.).

**CERTIFICATES** 2 yrs.—religious knowledge, secretarial practice. 3 yrs.—higher primary teacher, theory of acty. 4 yrs.—art teacher. (All non-grad.).

**OTHER COURSES.** First-yr. courses are given for students proceeding to other univs. for degrees in engin., med., dent., vet. sci. and agric. The

full courses of tlg. for profess. dipls. in music are also given.

**RESEARCH** The Leather Industries Res. Inst. (see 'Assoc. Instns.', above) originated as a tanning res. section of the chem. dept. and gradually developed, until in 1922 it was able to move into a separate bldg. and became an indep. dept. In 1946 it was formally constituted as a res. inst. under the control of the Council for Scientific and Indust. Res., but it still remains closely associated with the univ.

The S.A. Wool Textile Res. Inst. (see 'Assoc. Instns.', above), incorporated in 1953, is also under the control of the C.S.I.R. and closely associated with the univ.

Inst. of Soc. & Econ. Res. (see p. 1491) was establd. in 1954 to co-ordinate and extend res. in soc. sci.

**FEES** The following cover all charges for registration, tuition, lab., ord. exams, graduation, library and students' socs. BA, BA(FA), BCom, BEcon, BSocSci, BMus, R120 p.a.; BSc, BSc(Pharm), LLB, R140 p.a.; BD, BEd, R110 p.a. Hon. degrees, R120 p.a. (R150 if lab. used). Master's degrees, R60 p.a. (R90 if lab. used) plus exam fee, R20. PhD, R10 p.a. (R30 if lab. used) plus exam fee, R60. Dipls.: educn., fine art, secondary teacher's, R110 p.a.; art teacher's, R140 p.a. Certs.: primary teacher's, R110 p.a., art teacher's, R130 p.a. Other dipls. and certs., R120 p.a.

**ACADEMIC YEAR** March to Nov., 4 terms of approx. 7 weeks each.

**ADULT EDUCATION.** Extension lectures are given from time to time by members of the staff in the main towns of the Eastern Province.

**ENTRANCE SCHOLARSHIPS, ETC.** Several govt. bursaries (up to R200 p.a. for 3 yrs.), 2 Alfred Best scholrs (R100 for 1 yr.), 2 Reynolds bursaries (R150 p.a. for 3 yrs.); other bursaries of varying amounts.

**FELLOWSHIP** open to grads. of any univ. Hugh Le May fellowship, about R2800 for 1 yr., awarded in alternate yrs. for advanced res. in humanities.

**STUDY LEAVE.** Academic staff may be granted 6 mos' leave (3 mos' full pay, 3 mos' half pay) after each period of service of 5 yrs.

**RESIDENCES.** Men: Founders Hall (Boths House, College House, Cory House, Matthews House), accomm. 192 students; Drosty Hall (Struben House, Graham House, Drosty Lodge, Atherton House), 197; Jan Smuts Hall (Jan Smuts House, Adamson House), 218; Piet Retief Hall (Piet Retief House, Livingston House), 55; Thomas Pringle Hall, 120. Women: Oriel Hall (Beit House, Jameson House, Oriel House), accomm. 180 students; St. Mary's Hall (John Koeze House, Phelps House, Olive Schreiner House), 206; Milner Hall (Lillian Britten House and Milner House), 94. Residence fees: R250 p.a.

**ATHLETIC UNION** controls all sporting activities.

incl. sports clubs STUDENTS' REPRESENTATIVE COUNCIL controls all other student activities.

PUBLICATIONS. *Calendar*, 75 cents; General

and Faculty *Prospectuses* and *Prospectus of P.E. Division*, 20 cents each; *Report* (annual); *Rhodan* (annual students' publication), 25 cents

## THE YEAR 1961

RETIREMENTS Prof W. F. Barker (chem.); Sheila Muntz (lady warden, St Mary's Hall)

RESIGNATIONS Prof B. Abrahamsen (maths.), apptd. to Tor., J. Crompton (hist.), G. C. Gerians (chem.), Dr. G. E. Little (chem.), Dr. M. C. Marsh (psychol.), apptd. to N.E., G. McGilivray (chem.), Prof D. G. Parkyn (maths.), apptd. to Cape T.; Dr. J. R. Wahl (Engl.), apptd. to O.F.S.

DEATHS J. W. King (maths.).

HONORARY DEGRS LLD—Dr A. Keis, first principal of S. African Native Coll. (later U.C. of Port Harc), Prof. Z. K. Matthews, first grad. of S. African Native Coll., sometime prof. of African studies, vice-principal and actg. principal, U.C. of Port Harc

Distribution by Faculties Grahamstown—*arts*, 305, *comm.*, 197, *div.*, 26, *educn.*, 86; *law*, 18; *sci.*, 549, *soc. sci.*, 48 Also 8 'special students' not studying for a degree or dipl. Port Elizabeth—*arts*, 35; *comm.*, 117 6 'special students'

Included in the figures above are—

Postgraduate students, 192

New admissions, 432

Students from other countries, 236. (Country from which largest number came: Rhodesia & Nyasaland, 198).

## Statistics

### STUDENT NUMBERS, 1962

#### Grahamstown

	Full-Time	Part-Time
Men	883	70
Women	478	16
Total	1361	86

#### Port Elizabeth

	Full-Time	Part-Time
Men	26	118
Women	7	7
Total	33	125

DEGRS AWARDED (1961) *Arts* BA, 94; BA hon., 14, MA, 1; BA(FA), 3; BMus, 4. *Comm.* BCom, 21 *Div* BD, 4. *Educn* MED, 1. *Law* LLB, 9 *Sci.* BSc, 41, BSc hon., 14, MSc, 9, BSc(Pharm), 22 *Soc. sci.* BSocSc, 7; BSocSc hon., 1. PhD (all insts) 5, DLitt, 1.

DIPLOMAS AND CERTIFICATES AWARDED (1961) UED, 36, UATD, 4; RULM, 3; dipl. fine art, 2, dipl. phys. educn, 1; dipl. theol., 6, dipl. soc. work, 2, HPTC, 3; PTAC, 1; cert. theory of accty, 12; cert. secretarial practice, 10; cert. relig. knowledge, 1.

# UNIVERSITY OF SOUTH AFRICA\*

Founded 1873 as University of the Cape of Good Hope

263 Skinner Street, Pretoria

Postal Address: P.O. Box 392, Pretoria, Transvaal, South Africa

Cables and Telegrams: Unusa, Pretoria

Telephone: 2-2345, Pretoria

CHANCELLOR—F. J. DE VILLIERS, BA PhD DSc, FRIC

VICE-CHANCELLOR AND CHAIRMAN OF SENATE—Professor S PAUW BSc DPhil *Præ*, MA

CHAIRMAN OF COUNCIL—S P E BOSHOFF, MA LittD

PRESIDENT OF CONVOCATION— . . .

PRINCIPAL—Professor S PAUW, BSc DPhil *Præ*, MA

REGISTRAR—B. F. J. VAN RENSBURG, MCom BA

ASSISTANT REGISTRAR—L. G. VAN DER MERWE, BCom

## TEACHING STAFF

[+ = Part Time, § = Hd. of Dept.]

### Accounting

Cilliers, J. A., MCom <i>Præ</i>	§Prof.
Cilliers, H. S., BA LLB Cape T	Sr Lectr.
de Bruin, J. W. A., BCom MBA <i>Præ</i>	Sr Lectr.
Coertse, C. J., MCom <i>Præ</i>	Sr Lectr.
Swart, J. N., MCom(B&A) <i>Præ</i>	Sr Lectr.
Bodenhorst, M. L., BCom	Lectr.
Brink, R., BCom <i>Stell</i>	Lectr.
Loubser, J. W., BCom <i>O.F.S.</i>	Lectr.

### Afrikaans-Nederlands

van der Merwe, H. J. J. M., MA	
DLitt <i>Præ</i>	§Prof.
Steyn, J. L., MA DLitt <i>Posthof</i>	Prof.
Posthumus, M. J., MA DLitt <i>Præ</i>	Sr Lectr.
de Pauw, W. J., LPhil&Litt <i>Brussels</i> , DLitt <i>Præ</i>	Sr Lectr.
Deldor, L., MA <i>Posthof</i> , LittDrs <i>Assnt</i>	
Burn, O. J. E., BA <i>Præ</i>	Sr Lectr.
van der Walt, M. J., MA <i>Præ</i>	Lectr.

### Anthropology and Bantu Law

Myburgh, A. C., BA LLB <i>Stell</i> , DPhil <i>Præ</i>	§Prof.
Sentker, H., BA <i>Præ</i>	Sr Lectr.
Monnig, H. A., MA <i>O.F.S.</i> , DPhil <i>Præ</i>	Lectr.
Dedekind, G. A. H., BA <i>Rand</i>	Lectr.

### Art History

Stawron, K., BA <i>Præ</i>	Lectr.
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### Auditing

du Toit, L. M., MCom <i>Præ</i>	§Sr Lectr.
Oosthuizen, G. L., MCom <i>Præ</i>	Lectr.

### Bantu Languages

Ziervege, D., MA DLitt <i>Præ</i>	§Prof.
Louw, J. A., MA <i>Stell</i>	Sr Lectr.
Ferreira, J. A., MA <i>Præ</i> , DLitt&Phil	Sr Lectr.
Malepe, A. T., BA	Sr Lang Asst.
Dau, R. S., BA	Lang Asst.
Jubane, J. B., BA <i>Rhodes</i>	Lang Asst.
Mokgokong, P. C., BA	Lang Asst.
Ngidi, J., BA	Lang Asst.

### Bibliography and Librarianship

de Vrieschouw, H. J., PhD CandHist <i>Ghent</i> , Hon. LL.D <i>Glas</i>	§Prof.
Zaatou, H., BSc HDiplBibl <i>Præ</i>	Sr Lectr.
Hartmann, E. N., BA <i>Rand</i> , FLA, FSALA	Sr Lectr.
McArdell, A. M., MA <i>Stell</i>	Sr Lectr.

### Business Economics

Rödel, F. E., DiplRerOec <i>T.H.Druden</i> , DCom <i>Stell</i>	§Prof.
Marius, G., MCom <i>Stell</i> , PhD <i>Wis</i>	Prof.
Winkie, F. F., DrEcon <i>Bud</i>	Sr Lectr.
Bak, C., EconDrs <i>E.H.Rotterdam</i>	Lectr.
de Beer, J. J., DCom <i>Stell</i>	Lectr.
Herbst, W., MCom <i>Stell</i>	Lectr.

\* Member of the Association of Universities of the British Commonwealth

<b>Chemistry</b>		Scheepers, J. N., MA	Lectr.
Perold, G. W., DSc <i>Pres.</i> , DrScTech <i>Zur.</i>	\$Prof.	† Tech. Asst	
Seyn, W. J. A., PhD Rhodes, MSc	Sc Lectr		
Booyens, J. C. A., MSc O.F.S.	Lectr		
<b>Classical Languages</b>		<b>German</b>	
Viljoen, G. van N., MA <i>Pres.</i> & <i>Caueb.</i> , LLB <i>Pres.</i> , DLitt&Phil <i>Ley.</i>	\$Prof	Schneider, B. A. T., MA Cape T., DLitt <i>Stell.</i>	\$Prof.
Naudé, C. P. T., MA <i>Rand.</i> & <i>Oxon.</i> , DLitt&Phil <i>Ley.</i>	Prof.	Hesse, A. O., MA DLitt <i>Pres.</i>	St. Lectr
van Weber, O. A., DPhil Bonn	Sr Lectr.	<b>Hebrew, see Semitic Langs.</b>	
Kriel, D. M., MA <i>Pres.</i>	Lectr	<b>History</b>	
Erasmus, H. J., MA O.F.S., DLitt&Phil <i>Ley.</i>	Lectr	Muller, C. F. J., MA DPhil <i>Stell.</i>	\$Prof.
Benda, J. T., MA <i>Pres.</i>	Lectr	van Jaarsveld, F. A., MA <i>Pres.</i> , LLB&PhilDr <i>Gron.</i>	Prof.
<b>Criminology</b>		van Wyk, T., MA	Prof.
van der Walt, P. J., MA BEd DPhil <i>Pres.</i>	\$Se Lectr	Dovey, A. M., MA	St. Lectr.
Retief, G. M., MA DPhil <i>Pres.</i>	Sr. Lectr	van Zyl, M. C., MA <i>Pres.</i>	Lectr
Labuschagne, J. J., BA LLB <i>Pres.</i>	Lectr.	Barnard, C. J., MA <i>Stell.</i>	Lectr
<b>Economics and Economic History</b>		<b>Italian</b>	
Krogh, D. C., BCom MA Cape T., EconDis <i>Amst.</i> , DPhil <i>Pres.</i>	\$Prof.	Haffner, P., DPhil <i>Zur.</i>	\$Prof.
Venter, K. D., MA	Sc Lectr	<b>Jewish Studies</b>	
Jones, J., MA <i>Stell.</i> , DPhil <i>Pres.</i>	Sr Lectr.	Newman, J., MA <i>Mau.</i> , DLitt <i>Pres.</i>	† Lectr
van den Bogaerde, F., DCom <i>Pres.</i>	Sr. Lectr	<b>Law, Mercantile</b>	
Lowthion, G. M. E., MA <i>Stell.</i> , MBA <i>Pres.</i>	Lectr.	Benda, M. L., BA <i>Stell.</i> , LLB O.F.S.	\$Se Lectr.
<b>Education</b>		Copeling, A. J. C., BA LLB <i>Stell.</i>	Sr Lectr
Cilliers, D. H., MA MEd DPhil		Kachaloff, G. C., BAdm <i>Pres.</i> , BCom LLB	Sc. Lectr
Erasmus, O. C., BA <i>Stell.</i> , DEd <i>Pres.</i> (Method & Admin)	\$Prof	Grosskopf, F. H., BA <i>Pres.</i> , LLB <i>Ley.</i>	Adv. Lectr.
Venter, E. H., BA BCom DEd O.F.S.	\$Prof.	van Dykhorst, K., BA LLB <i>Pres.</i>	Adv. Lectr.
Krige, H. L., BSc <i>Pres.</i> , DEd (Empirical E)	\$Prof.	Remedie, M. F. B., BA <i>Pres.</i>	Asst.
Venter, I. S. J., BA DEd O.F.S. (Hist of E)	Sr. Lectr.	<b>Law, Private</b>	
<b>English</b>		Joubert, W. A., MA LLB <i>Stell.</i>	\$Prof.
Davis, E., MA <i>Rand.</i> , BLitt <i>Oxon.</i>	\$Prof	Nielsen, P. M., BA LLB <i>Stell.</i>	Prof.
Beeton, D. R., MA <i>Pres.</i>	Sr Lectr.	Wessels, L. G. T., BA LLB <i>Pres.</i>	Lectr
Porrean, E., BA	Lectr.	van der Walt, J. C., BA O.F.S.	Asst
Rappaport, R., BA <i>Natal</i>	Lectr.	Naudé, H. T. J., BA O.F.S.	Asst
Hugo, L. H., BA	Lectr.	<b>Law, Public</b>	
Loughton, J. M., BA	Lectr.	Strauss, S. A., BA <i>Stell.</i> , LLB O.F.S.	\$Prof
Klipp, G. I., MA <i>Natal</i>	Lectr	Wessels, M., BA LLB <i>Pres.</i>	St. Lectr
Doherty, E. S. B., MA <i>Pres.</i>	Lectr.	Stridom, M. J., BA LLB <i>Pres.</i>	St. Lectr.
Puck, S. G., BA	Lectr	Ackermann, L. W. H., LLB <i>Stell.</i> , BA <i>Oxon.</i>	Adv. Lectr.
Stiles, G. W., BA	Lectr.	<b>Law, Roman and Comparative</b>	
<b>French</b>		Hosten, W. J., BA LLB <i>Stell.</i>	\$Prof.
Haffner, P., DPhil <i>Zur.</i>	\$Prof.	Dannenbring, R. K. H. W., DrJur <i>Kiel</i>	Lectr.
Valkhoff, J. W., Litt&Cand <i>Amst.</i>	Sc. Lectr	<b>Mathematics and Applied Mathematics</b>	
Joubert, J., DPhil <i>Montpellier</i>	Lectr	van der Merwe, J. H., PhD Cape T., MSc	\$Prof.
<b>Geography and Economic Geography</b>		Rund, H., BSc PhD Cape T., DrHabil <i>Freib.</i>	Prof.
Moulman, J. H., MA DPhil <i>Stell.</i>	\$Prof.	van der Walt, B. J., MSc	Sc Lectr
Smilt, C. B., MA <i>Pres.</i>	Sr. Lectr.		
Tromp, R. D., MSc <i>Pres.</i>	Sr. Lectr.		
Niemann, W. H., BSc	Lectr.		



van der Mark, J, MSc <i>Patchef &amp; S.A.</i>					
DPhil <i>Ley</i>	St. Lectr.	Psychology	Roux, A. S., MA DPhil <i>Pret</i>		§Prof.
Ward, D. H., DSc <i>Pret.</i>	St. Lectr.	Bhagnat, F. W., MA DPhil & Phil			Prof.
Welterbeck-Müller, J.,		Gearing, R., MD <i>Aust.</i> , LLB <i>Rand</i>			§Prof.
Maths & Phys <i>Drs Ley</i>	Lectr.	Schlebusch, A., MA <i>Pret &amp; Mann</i>		St. Lectr.	
Hall, P. R., BSc	Asst.	Vlok, A., MA DPhil <i>Pret.</i>		St. Lectr.	
Mathematical Statistics		Geddes, L. C., MA		Lectr.	
Steyn, H. S., DSc <i>Pret.</i> , PhD <i>Edin</i> , MSc	§Prof.	Moller, N. J., MA		Lectr.	
van Heerden, D. F. L., MSc <i>Pret</i> , PhD	Sr Lectr.	van den Berg, J. C., MA <i>Patchef</i>		Lectr.	
Gonin, H. T., MSc <i>Stell.</i> , PhD		Romance Languages, see French, and			
DiplActuarial Maths <i>Edin</i>	Sr Lectr.	Italian			
Music		Russian			
Roode, D. J., BMus	§Prof., Dir.	Foxcroft, E., MA <i>Oxon.</i>		Lectr.	
Paff, W. P., PhD <i>Rand</i>	St. Lectr.	Semantic Languages			
Native Administration		van Zyl, A. H., MA DD <i>Pret</i>		§Prof.	
van As, B. S., MA <i>Stell.</i>	§St. Lectr.	Gluck, J. J., MA <i>Jerusalem</i> , DPhil <i>Pret</i>		Lectr.	
Olivier, J. J., BA <i>Pret</i>	Lectr.	Social Work			
Philosophy		van Rooyen, I. J. J., MA DPhil		§Prof.	
de Vrieschauer, H. J., PhD <i>CamdHist</i>		de Vos, A. S., MA <i>Stell.</i>		Lectr.	
Ghent, Hon. LLD <i>Glas.</i>	§Prof.	Sociology			
Meyers, A. M. T., MA DPhil <i>Pret.</i>	Prof.	van der Walt, J. A., DPhil <i>O.F.S.</i> , MA		§Prof.	
Meyer, R. S., MA <i>Pret.</i>	Lectr.	Steyn, A. F., MA DPhil <i>Stell.</i>		Sr. Lectr.	
Political Science and Public		Rap, C. M., MA		Lectr.	
Administration		Venter, J. J., MA <i>Patchef</i>		Lectr.	
Kloynhans, W. A., BCom MA <i>Pret.</i>	§Sr. Lectr.	de Koning, T. L., BA		Lectr.	
Vodoo, W. B., MA <i>Pret.</i>	St. Lectr.	Theology			
Shevelov, H. R., BA <i>Rand</i>	Sr. Lectr.	Lombard, J. A., BA BD <i>Pret.</i> , DD <i>Bale</i>		§Prof.	
		Bybars, I. H., MA DD <i>Pret</i> , ThD <i>Harv.</i>		Prof.	
		PhD <i>Duke</i>			

## ADMINISTRATIVE AND OTHER STAFF

Chief Clerk: J. J. Buis, BA BEcon Accountant;  
A. J. Vorster, BA BCom *Pret* Librarian

H. O. K. Zastrau, BSc HDipl *Pret* Public  
Relations Officer; A. B. Cloete, BA *Pret*

## GENERAL INFORMATION

By Act 12 of 1916 of the legislature of the Union of South Africa the Univ. of the Cape of Good Hope, incorporated by act of the Cape legislature in 1873, became and was incorporated in the Univ. of South Africa, with administrative seat at Pretoria.

Pretoria (pop. 449,500 in metropolitan area), is the capital of the province of Transvaal and the admin. centre of the Republic of S. Africa.

Since 1951 the univ. has been concerned with external students only, no provision being made for attendance. The univ. supplies tuition (in most subjs.) by correspondence in both English and Afrikaans; it is compulsory for students to obtain such tuition. Students resident outside the Continent of Africa are not normally admitted to exams.

The following instns train students for the exams at the Univ. of South Africa: Univ. Coll. of the North, P.O. Sovenga, Pretsburg, Transvaal

(Rector: Prof. R. F. Potgieter, MA DPhil); Univ. Coll. of Port Harc, P.O. Port Harc, C.P. (Rector: Prof. J. J. Ross, LLB BAdm *O.F.S.*, MA *Yale*, HSED *Stell.*, BA BSc *BEd*); Univ. Coll. of the Western Cape, Private Bag, Kaasdrivlei, Cape Town (Rector: J. G. Meiring, BSc *BEd* PhD); Univ. Coll. of Zululand, P.O. Kwa-Dlangezwa, van Empangant, Natal (Rector: P. W. Cooke, MA PhD); University College for Indians, Private Bag, Durban, Natal (Rector: Prof. S. P. Olivier, BA *Stell.*, MEd DPhil); Pius XII Coll. (associated), P.O. Roma, Basutoland (Rector: Very Rev. F. E. Banini, MA *Canb.*); Heidelberg Teachers' Training Coll., P.O. Box 220, Heidelberg, Transvaal (Rector: J. J. de Jager, BA *HED*); Goudstadse Onderwyskollege, P.O. Box 2, Goudstadse, Johannesburg (Rector: A. W. Müller, MA *BEd*); Heidelberg Coll., P.O. Box 22, Somerset West, C.P. (Rector: E. L. Tarr, MA *Maryland*); Huguenot Coll., P.O.

Box 5, Wellington, C.P. (Rector: Rev E J du Toit, BA BD Stell)

INCOME (1961). R1,217,435 (govt. grant, 50 p cent., fees, 47 p cent., annual grants from public bodies, 0 or p cent.; interest on investments and rentals, 0.6 p cent., other, 0.9 p cent.).

FACULTIES AND DEANS. Arts (incl. fine arts & music), Prof. C F J Muller (hist.); *scis* & *adms*, Prof. F E Radel (bus econ.), *dis*, Prof. J A. Lombard (theol.), *educ*, Prof. D. H. Cilliers; *law*, Prof. W. A. Joubert; *sci*, Prof. J. H. v. d. Merwe (maths), *sec. sci.*, Prof. J. A. van der Walt (sociol.).

ADMISSION. See p. 1456

FIRST DEGREES. BA, BA(FA), BA(SocSc), BAdms, BCom, BSc, 3 yrs., *hons.* BA, *hons.* BA(FA), *hons.* BA(SocSc), *hons.* BCom, *hons.* BAdms, 1 yr. after corresponding bachelor's degree; BMus, 4 yrs. *Hons.* BA may be conferred in African studies, Afrikaans-Nederlands lang. & lit., biology, classics, criminol., econ., Engl. lang. & lit., fine art, French lang. & lit., geog., German lang. & lit., Greek, hist., Italian lang. & lit., Latin, maths, philol., philos., pol., sci., psychol., Semitic lang., sociol.

HIGHER DEGREES. BD, 3 yrs. (postgrad.); LLB, 4 yrs. (postgrad.), BEd, 1 yr. (postgrad.) after dipl. in educn. or other approved course; MA, MA(SocSc), MAdms, MCom, MSc, 1 yr. after corresponding *hons.* bachelor's degree.

MMus, a yrs. after BMus, MDiv; LL.M., MEd, by thesis, DAdms, DCom, DLitt&Phil, DMus, DLit, LL.D., DEd; & PhD in sci., *sec. sci.* Doctorates (except PhD) are granted for approved theses to masters of at least a yrs.' standing. For the PhD degree the period is 3 yrs. The master's and doctor's degrees may also be conferred as honorary degrees.

Postgrad. study may be undertaken in sociol., African studies, Afrikaans-Nederlands, appl. maths., auditing, biblics., bot., bus econ., chem., classics, criminol., econ., educn., Engl., fine arts, French, geog., geol., German, Greek, hist., Italian, Latin, maths., philol., philos., phys., pol., sci., pub. admin., Semitic langs., sociol., soc. work, stats., zool.

DIPLOMAS. Educn.—1 yr.; librarianship, journalism, dipl. for police—a yrs., Bantu studies—lower a yrs., higher 1 yr. The Univ. also prepares students for the following certs. which are awarded by the relevant professional bodies: theory of accountancy (4 yrs.), attorney's admission (3 yrs.), and public servants' (3 yrs.) certs.

SCHOOL AND MUSIC EXAMS. The Univ. controls and conducts exams for music certs. and licentiate diplomas (for teachers of music and solo performers), and exams in speech trg.

PUBLICATIONS. *Calendar* (Jan., free), *Unisa* (Nov., free), *Maquassan*; *Communications of the Univ. of South Africa* (series); *Prospectus* (free).

## THE YEAR 1961

RECTOR: Prof. D. de Villiers (law).

REGISTRARS. Prof. C. J. D. Harvey (Engl.), appnd. prof. at Stell.; Dr C. F. Kruger (psychol.), to private practice.

### Statistics

#### STUDENT NUMBERS, 1961

	External*
Men . . . . .	9,343
Women . . . . .	1,240
Total . . . . .	10,583

Distribution by Faculties. Arts, 5,431; *coms.* & *adms.*, 3,112; *educn.*, 247; *law*, 1,004; *sci.*, 708; *sec. sci.*, 79; *theol.*, 2. Total: 10,583.

Included in the figures above are—

Postgraduate students, 788.

\* Does not include 652 students at the Univ. colls. for non-whites

#### New admissions, 1959

Students from other countries, 950. (Countries from which largest numbers came: S. Rhodesia, 424; S.W. Africa, 171; High Commission Territories, 149; N. Rhodesia, 99).

DEGREES AWARDED (1961). BA, 165; BA *hons.*, 40; MA, 8; DLitt&Phil, 1; BA(FA), 5; BA(FA) *hons.*, 1; BMus, 4; BAdms, 5; BCom, 31; BCom *hons.*, 3; DCom, 1; BSc, 10; BSc *hons.*, 5; MSc, 1; PhD, 4; BA(SocSc), 5; BA(SocSc) *hons.*, 1; LLB, 9; LL.M., 1; LL.D., 1; BEd, 31; MEd, 2; DEd, 1.

DIPLOMAS AWARDED (1961). Educn., 21; librarianship, 10; higher librarianship, 5; banking, 4; *law*, 1.

CERTIFICATE AWARDED (1961). CTA, 132; attorney's admission, 17; pub. servants, 35; public serv. ar. law, 3.

# UNIVERSITY OF STELLENBOSCH\*

Founded 1916

Postal and Telegraphic Address: University, Stellenbosch, Cape Province, South Africa

Telephones: 1251 Stellenbosch

CHANCELLOR—Hon. T. E. DONGES, MA LL.D. *Leid*, Hon. DPhil

VICE-CHANCELLOR—J. S. GERSCHKE, BA

PRESIDENT OF CONVOCATION—R. W. WILCOCKS, PhD *Berl*, Hon. DCL *Oxon.*, Hon. DComm

PRINCIPAL—H. B. THOM, MA DPhil

REGISTRAR—S. J. PRISTORUS, PhD *Leid.*, MSc

LIBRARIAN—G. V. MARAIS, BSc *Col.*, MA, FSALA

ACCOUNTANT—T. G. D. VAN SCHALKWYK, BComm

## TEACHING STAFF

[I = Part-Time]

### Afrikaans-Dutch

Kempen, W., MA LittD Jan Marais Prof  
 Erlank, W. J. du P., BA *Pret. & Rand*,  
 DLitt *Pret* Prof  
 Opperman, D. J., MA *S.A.*, DLitt *Cape T.* Prof  
 De Villiers, M., MA PhD *Cape T.* Prof  
 Van der Merwe, J. H., MA Lectr.  
 2 Jr. Tech. Assts., 6 Student Assts.

Van der Merwe, P. W., PhD *Göt.*, MSc Prof.  
 Krüger, J. H., DrIngChem *T.H.Aachen*,  
 MSc Sr. Lectr.  
 Barnardt, J. H., DSc Sr. Lectr.  
 Melan, H. F., MSc *Del.* Sr. Lectr.  
 De Vries, M. J., DrResNat *Freib.*, MSc  
 Sr. Lectr.

Gaibers, C. F., MSc *Pret.*, PhD *Zür.* Sr. Lectr.  
 Stegmann, G. F., BSc *S.A.*, MSc Lectr.  
 Burger, B. V., MSc Lectr.  
 Cruywagen, J. J., MSc Lectr.  
 De Kock, D. M., MSc *Pret.* Lectr.  
 Schneider, D. F., MSc Lectr.  
 3 Half Jr. Lectrs., 5 Tech. Assts., 47 Student Assts.

### Agriculture, see below

### Bantu Studies

Olivier, N. J. J., MA LLB Prof.  
 Bruwer, J. P. v. S., MA DPhil *Pret* Prof.  
 Schäfer, G. M. K., MA Lectr.  
 Olivier, M. J., MA Lectr.  
 Oosthuysen, P. J., MA Lectr.  
 Welos, Ode Temp. Jr. Lectr.  
 6 Student Assts.

### Classics

van Rensburg, J. P. J., MA *Leid. & Stell.*,  
 DLitt Prof.  
 Smuts, F., LittD *Utrecht*, MA Prof.  
 Hugo, A. M., LittD *Utrecht*, MA Sr. Lectr.  
 Conradie, P. J., LittD *Utrecht*, MA Sr. Lectr.  
 1 Half Jr. Lectr., 8 Student Assts.

### Botany

Jordaan, P. G., DSc Prof.  
 De Vos, Minam P., DSc Sr. Lectr.  
 De Bruyn, J. A., MSc *Potschef.*, PhD *Ches.*  
 Sr. Lectr.  
 Smith, J. G., MSc DPhil *Utrecht* Lectr.  
 Van der Merwe, R. B., MSc Lectr.  
 1 Half Jr. Lectr., 2 Tech. Assts., 30 Student Assts.

### Commerce

..... Helpmeknat Prof.  
 Schumann, D. E. W., PhD *Virginia Poly-*  
 tech, MComm Prof.  
 Smith, C. A., BComm Prof.  
 Van der Meulen, J., EconDes *E.H.Rotterdam*

### Chemistry

Krige, G. J. R., PhD *Göt.*, MSc Prof.  
 Rahwer, E. F. C. H., MSc *S.A.*,  
 DrResNat *Freib.* Prof.

Dempsey, W. C., MComm Sr. Lectr.  
 van Zijl, G. J. J., DiplStats *Oxon.*,  
 BComm Sr. Lectr.  
 Loubser, M. G., BComm Sr. Lectr.

\* Member of the Association of Universities of the British Commonwealth

Verburgh, C., DComm *Pres.*,  
EconDrs *E.H. Rotterdam*  
Van Dyk, Hilletoe A. A.  
Joubert, W. A., BComm  
Bouwter, B., MComm  
Wessels, P. J., BComm  
Rorich, R. B., BA LLB  
Van Wyk, H. F., BComm  
Malherbe, J. F., BComm LLB Cape T.  
14 Student Assis.

**Drama**

Engelen, A. P. F. L. Prof.  
De Villiers, Margaretha E. Lectr.  
Geyers, J. Lectr.  
De Bruyn, J. S., MA S. A. Lectr.  
Zeevogel, Miss Johanna E. †Lectr.  
Tager, Gisela †Lectr.  
2 Student Assis.

**Dutch, see Afrikaans-Dutch****Economics**

Sadie, J. L., EcD *E.H. Rotterdam*, MComm  
(on leave) Arthur van der Lingen de  
Villiers Prof.  
De Reville, Mrs. Maria J. C.,  
DrPol&Soc Levenin Sr. Lectr.  
Traut, M. L., BA Lectr.  
4 Student Assis.

**Education**

Du Toit, P. S., MA MED DPhil  
(Hist. of E.) Prof.  
Gunter, C. F. G., MA MED S. A., DEd  
DPhil (Philos. of E.) Prof.  
La Grange, A. J., MA DPhil (E. Psychol.) Prof.  
Swartz, J. F. A., MA DPhil (Methods of E.) Prof.  
Heese, J. de V., BA DEd Sr. Lectr.  
Uys, Anna M., BA BEd Cape T. Sr. Lectr.  
Bodenhorst, J. L., BA MED Sr. Lectr.  
Venter, P. C., BA S. A., MED Sr. Lectr.  
McLachlan, P., MSc BEd Sr. Lectr.  
Goldman, Miss. Maria S. M., MA DEd  
Müller, F. B., BSc *Pres.*, DEd Potchef.  
McMagg, Gertrude P., BA Rand, DEd Sr. Lectr.  
Smit, T. C., BSc MED Sr. Lectr.  
Smit, J. N., BA Lectr.  
Pinkard, Mrs. Dorothy C., MA Cape T. Lectr.  
Mochu, Mrs. Deborah, BA Pres. Lectr.  
Smit, Mrs. Idalette, MA Lectr.  
Coetzee, Marie E., BA Potchef. Lectr.  
2 Tech. Assis., 6 Student Assis.

**Engineering**

... .. Elizabeth Marais Prof.  
Heydon, A., DiplEng T.H. Stuttgart,  
M(SA)IEB Prof.  
Truter, R., BA BScEng Cape T.  
Suyper, J. J., BSc(Eng) Rand Willie Roux Prof.  
Sr. Lectr.

Olen, C. L., MSc(Eng) Rand Sr. Lectr.  
Steenkamp, W., BSc(Eng) Rand, SM M.J.T. Sr. Lectr.  
Wanzenburg, J. J., MSc(Eng) Rand,  
MSc *Pres.*, M(SA)IME Sr. Lectr.  
Loedolff, G. F., BSc BScEng Sr. Lectr.  
Guljam, B., DiplMechEng T.H. Delft  
Touren, L. J., BSc BScEng Sr. Lectr.  
Coetzee, A., BScEng Cape T. Sr. Lectr.  
De Villiers, J. W. R., BScEng Sr. Lectr.  
Uys, J. F., BSc(Eng) Rand Sr. Lectr.  
Kramer, B., BScEng Sr. Lectr.  
Reuter, H. O., BScEng Sr. Lectr.  
De Wet, G., BSc BScEng Sr. Lectr.  
Pienaar, J. F., BSc BScEng Lectr.  
Slabbert, M. J., BSc BScEng Lectr.  
5 Mechanics, 3 Tech. Assis., 32 Student Assis.

**English**

Harvey, C. J. D., MA Natal Prof.  
Johnman, C. K., MA BEd Cape T. Sr. Lectr.  
Gillham, D. G., MA S. A. Sr. Lectr.  
Thompson, J. B., BA Natal Lectr.  
Paterson, Mary W., MA S. A. Lectr.  
De Wet, Mrs. Hilda, BA Lectr.  
Henderson, A. C. L., BA Natal Lectr.  
..... Lectr.

**Forestry**

Wicht, C. L., BA Oxon, DrEng T.H. Dresden, BSc  
Mercensky Prof.  
Hartung, G. L. F., DrOecPubl Munich,  
BScFor  
Transvaal & O.F.S. Chamber of Mines  
Prof.  
Deetlefs, P. P. du T., DF Duke, BScFor Prof.  
Bargin, K. B., MagScent Oulo, DSc Prof.  
De Waal, P. H., BScFor Sr. Lectr.  
Van Laar, A., DiplEng Wageningen,  
DScFor Sr. Lectr.  
Donald, D. G. M., BScFor Aberd. Lectr.  
Grut, M., CandPhil Copenhagen, BScFor Lectr.  
Saunders, G. R., MScFor Jr. Lectr.  
10 Tech. Assis., 2 Student Assis.

**French**

... .. Prof.  
Cuemod, Valentine, BA Cape T., DU Paris Lectr.  
De Vynck, J. R. K., BA Lectr.

**Geography**

Nel, A., MA DPhil Prof.  
Conradie, D. J., MA DPhil Sr. Lectr.  
Jansen, J. P., MA DPhil Sr. Lectr.  
Barnard, W. S., MA Lectr.  
2 Tech. Assis., 18 Student Assis.

**Geology**

Schoffs, D. L., DSc Prof.  
Taljaard, M. S., DSc Prof.

Masko, S., MSc	Sr. Lectr.	<b>Music</b>	
Rust, I. C., BSc	Lectr.	Behrens, R. H., BA BMus	Dir. Prof.
1 Half Jr. Lectrs., 2 Tech. Assts., 10 Student Assts.		Von der Spuy, G. Z., MMus	Sr. Lectr.
<b>German</b>		Bowman, L.	Sr. Lectr.
Trumpelmann, G. P. J., BA S.A.		Swanepoel, C., MMus	Lectr.
PhD Lep., DPhil Prof.	Prof.	Tilbot, Desiré	Lectr.
Haller, H. M., PhD Natal	Sr. Lectr.	Papé, Mrs. Naama	Lectr.
Boeddinghaus, W., PhD Cape T.	Lectr.	Chuver, Elizabeth H. T.	Lectr.
		Müller, D.	Lectr.
<b>History</b>		Du Plessis, H., BMus S.A., BA	Lectr.
Thom, H. B., MA DPhil	Prof.	Bours, J.	Lectr.
Van der Merwe, P. J., LittD Ley., MA	Jan Marais Prof.	De Groot, P.	Lectr.
Kotzé, D. J., MA DPhil	Prof.	Van Wyk, A., BMus Durh.	Lectr.
Booyens, B., MA	Sr. Lectr.	Scholten, B.	Lectr.
1 Tech. Asst.		Ottensmanna, R. E., BA BMus	Lectr.
		Lubbe, Elizabeth M. B.	Jr. Lectr.
		Lambrechts, Mrs. Anny	Temp. Lectr.
<b>Home Economics</b>		<b>Philosophy, Moral and Metaphysical</b>	
Jooste, Martha E., PhD Oregon State, MScHomeEc	Sr. Lectr.	Klinton, J. F., MA DPhil	Prof.
Louw, Gertrude J., BScHomeEc	Sr. Lectr.	Degenar, J. J., MA DPhil	Sr. Lectr.
Malherbe, Maria, BScHomeEc	Lectr.	<b>Physical Education</b>	
Van der Merwe, Maria, BScHomeEc	Lectr.	Craven, D. H., MA DPhil	Prof.
Foussé, Mrs. Johanna J., BScHomeEc	Lectr.	Postma, J. W., DEdPh	Sr. Lectr.
Jacobse, Minetta S., BScHomeEc	Lectr.	Wiering, C. J.	Sr. Lectr.
Wessels, Mrs. Anna, BScHomeEc	† Lectr.	Steinwender, Mrs. Halde, MEdPh	Lectr.
Smit, Mrs. Maria J., BScHomeEc	Lectr.	Kelder, J. C.	Lectr.
Leikow, Mrs. Ida A., BScHomeEc	Lectr.	Van der Merwe, J. J. R., BSc MEdPh	Lectr.
Mooré, Mrs. Christine A.	† Lectr.	Nel, Hester I., MSc Wailley, BSc	Lectr.
Letegem, Mrs. Judith E., BScHomeEc	Lectr.	Ward, Beatrix M., BSc	Lectr.
Heyl, Elizabeth, BScHomeEc	Jr. Lectr.	Katzenellenbogen, Edith, BSc	Jr. Lectr.
8 Student Assts.		2 Student Assts.	
<b>Law</b>		<b>Physics</b>	
De Wet, J. C., LL.D. Ley. & Stell., BA	Prof.	Cdhens, A. C., PhD Phys., MSc	Prof.
Yessé, J. P., BA LL.D.	Prof.	Zeebman, P. B., DSc	Prof.
van der Westhuizen, W. M., BA LL.D.	Prof.	Frisho, W. E., DrRerNat T.H. Aachen	Prof.
De Villiers, A. B., BA LL.D.	Prof.	Scheffer, T. B., DSc	Sr. Lectr.
Schwetering, K. F. J., BA S.A., LL.B.	Sr. Lectr.	Marais, D. J., PhD Camb., MSc	Sr. Lectr.
<b>Librarianship</b>		Rosloffe, C. J., MSc	Sr. Lectr.
Ehlers, D. L., BA S.A. & Stell.,		Smit, M. C. B., MSc	Lectr.
LittDip Cape T.	Sr. Lectr.	Aklush, De V., MSc	Jr. Lectr.
Marais, G. V., BSc Cal., MA	† Lectr.	Noudé, W. J., MSc	Jr. Lectr.
Du Plessis, F., BA	† Lectr.	Stemmet, M. C., MSc	Jr. Lectr.
		2 Half Jr. Lectrs., 4 Mechanics, 2 Tech. Assts., 51 Student Assts.	
<b>Mathematics and Applied Mathematics</b>		<b>Psychology</b>	
Cullé, G. G., Jr., DPhil Oxon., MSc	Prof.	Van der Merwe, A. B., MB ChB Cape T., MA DPhil	Prof.
Le Roux, J. M., PhD Lond., MSc	Prof.	Theron, P. A., MA DPhil	Prof.
Geldner, S. R. P., PhD N.Y., MSc	Prof.	Du Toit, J. M., PhD Cape T., MSc	Prof.
Jacobse, C., BSc(Eng) Rand, MSc S.A., M(SA)IME	Sr. Lectr.	Van Bijson, I. J., MA MEd DPhil	Sr. Lectr.
Kamrenberg, K. R., DrRerNat Bonn	Sr. Lectr.	Van Nickerk, H. G., BA MEd	Sr. Lectr.
Vosker, D. H., PhD Freib.	Lectr.	Botha, A. G., BA MEd	Sr. Lectr.
De Villiers, A. J., BScEng	Lectr.	Van Rooyen, J. W., MA	Lectr.
Goldenhuys, G., BSc	(on leave) Lectr.	Müller, H. F., MComm	Lectr.
Dreyer, T. P., MSc	Lectr.	Jonker, J. P. L., ThM Prim., MA BD	Lectr.
32 Student Assts.		Boshoff, A. B., MComm	Lectr.
<b>Medicine, see below</b>			

Nel, Elizabeth M, BA Jr. Lectr.  
4 Tech. Assists., 1 Mechanic, 30 Student Assists.

**Semitic Languages**

Fensham, F. C., MA DD *Pres.*, Prof.  
PhD *John H* Sr. Lectr.

**Social Work and Sociology**

Theron, Enka, MA DPhil Prof.  
Cullerck, S. P., MA LLB DPhil Prof.  
De Villiers, J. J., MASocWork DPhil Lectr.  
Joubert, D. D., MA Lectr.  
Müller, Anette, MASocWork Lectr.  
3 Tech. Assists., 18 Student Assists.

**Theology**

Müller, J. J., ThDr *Asst.*, DD *S.A.*, MA Prof.  
Poggieter, F. J. M., PhD *Cape T.*, ThDr *Asst.*,  
MA Prof.  
Verhoeve, P. A., MA *S.A.*, ThDr *Asst.* Prof.  
Kotzé, J. C. G., ThDr *Pres.*, BA Prof.  
Van der Merwe, W. J., PhD *Harvard*, BA Prof.  
Hanskom, T. N., DD *S.A.*, MA BD Prof.

**Zoology**

du Toit, C. A., PhD *Cape T.*, MSc Prof.  
Malen, Magdalena B., DSc Sr. Lectr.  
Engelbrecht, D. v. Z., DSc Sr. Lectr.  
De Kock, J. M., MSc Lectr.  
Jurgens, J. D., MSc Lectr.  
Vanser, M. H. C., MSc Lectr.  
3 Tech. Assists., 26 Student Assists.

**AGRICULTURE**

**Agricultural Bio-Chemistry**

Perold, I. S., DScAgric Prof.  
Stubbs, O. J., PhD *Corn.*, BScAgric *Pres.* Sr. Lectr.  
Buys, G. S., BScAgric *Natal*,  
MScAgric *Pres.* Lectr.  
8 Student Assists.

**Agricultural Chemistry**

Slabber, M. H., DScAgric Prof.  
Theron, A. A., PhD *Corn.*, MSc Prof.  
Weber, H. W., DScAgric *Humboldt* Sr. Lectr.  
3 Student Assists.

**Agricultural Economics**

Van Wyk, S. P., MA DPhil Prof.  
Morkel, P. R., MScAgric Sr. Lectr.  
Lectr.

**Agricultural Engineering**

Perold, R. P., BScEng *Cape T.*, BSc MScEng Prof.  
Conradie, P. J., BScEng Sr. Lectr.  
Kriek, G. C., BScEng Sr. Lectr.

**Animal Husbandry**

Swart, J. C., DScAgric Prof.  
Van Rensburg, P. J. J., BScAgric Sr. Lectr.  
Van der Merwe, F. J., DScAgric Sr. Lectr.  
3 Student Assists.

**Biometrics**

Prof.

**Dairy Husbandry**

Prof.  
Dixon, A., MSc *Pres.* & *Wfs.* Sr. Lectr.

**Entomology**

Dier, H. J. R., DSc Prof.  
Theron, J. G., PhD *Leid.*, MSc Sr. Lectr.  
Gibson, J. H., MScAgric (on leave) Lectr.  
Meyen, A. J., BScAgric Lectr.

**Field Husbandry**

Sim, J. T. R., BSc *Ill.*, MSc *S.A.*, DScAgric Prof.  
Wasserman, V. D., MScAgric Sr. Lectr.  
Joubert, J. G. V., BSc *S.A.* Sr. Lectr.

**Food Technology**

Nel, R. L., DScAgric Sp. Prof.  
Smit, C. J. B., BSc *Pres.*, PhD *Calif.* Prof.  
Koeppen, B. H., DSc Sr. Lectr.

**Genetics**

Laubscher, F. X., DScAgric (on leave) Prof.  
Stevens, J. M., PhD *Bu.*, MScAgric Sr. Lectr.  
Pienaar, R. de V., BSc PhD *Rand* Sr. Lectr.

**Microbiology**

Louw, H. A., PhD *Aberd.*, MScAgric Prof.  
Van Regenmortel, M. H. V., PhD *Cape T.*,  
MScAgric Sr. Lectr.  
Schoombie, N. F., BScAgric Lectr.  
24 Student Assists.

**Plant Pathology**

Louw, A. J., DScAgric Prof.

**Plant Physiology**

Bezuidenhout, S. J. P. K., BSc *Pretoria* Prof.  
(on leave) Lectr.

**Pomology**

De Wet, A. F., MScAgric Prof.  
Strydom, D. K., PhD *Calif.*, MScAgric Sr. Lectr.  
Sr. Lectr.

**Poultry Husbandry**

Liebenberg, C. R., MScAgric Prof.  
Erasmus, J. E., DScAgric Sr. Lectr.

**Veterinary Science**

Sr. Lectr.

<b>Viticulture</b>			
		Prof.	
De Waal, C. T., MScAgric	Sr. Lectr.		
Orffer, C. J., PhD Calif., MScAgric	Sr. Lectr.		
<b>MEDICINE</b>			
<b>Anaesthetics</b>			
Foster, P. A., MB ChB Cape T.	Lectr.		
Cluver, J. A., MB ChB Cape T.	† Lectr.		
Henderson, G. C., MB ChB Cape T.	† Lectr.		
Allan, R. D., MB ChB Rand	† Lectr.		
Weeks, J. C., MB ChB MMed Cape T.	† Lectr.		
Du Plessis, C. G. G., MB ChB MMed Cape T.	† Lectr.		
Herrigan, P., MB ChB MMed Cape T.	† Lectr.		
<b>Anatomy</b>			
Kersten, J. F. van E., MB ChB Cape T., FRCSEd	Prof.		
Toussan, M. J., PhD Rand, MSc	Sr. Lectr.		
Malan, A. D., BA MB ChB Pret	Lectr.		
Grundlingh, L. H., MB ChB Cape T.	Temp. Lectr.		
2 Tech. Assts., 3 Demis., 14 Student Assts			
<b>Dentistry</b>			
De Wet, P. D., BDS Rand	† Lectr.		
Tredoux, P. L., BChD Pret.	† Lectr.		
<b>Diseases of the Ear, Nose and Throat</b>			
Wykerd, H. C., MD Gron., FRCSEd	† Lectr.		
De Villiers, J., MB ChM Cape T.	† Lectr.		
Du Toit, C. J., MB ChB Cape T., DTM&H Rand, MMed Pret.	† Lectr.		
<b>Diseases of the Eye</b>			
Ferreira, A. B. W., MB ChB Cape T.	† Lectr.		
Du Toit, P. B., MB ChB Cape T., DO Lond.	† Lectr.		
Le Roux, L., MB ChB Cape T.	† Lectr.		
Malan, J. van L., MB ChB Cape T., DO Lond.	† Lectr.		
Van Niekerk, P., MB ChB Cape T., MMed Pret.	† Lectr.		
<b>Diseases of the Skin</b>			
Marshall, J., MD BS Lond.	† Lectr.		
Van der Meulen, H., MD Aust.	† Lectr.		
<b>Gynaecology and Obstetrics</b>			
De Villiers, J. N., MB ChB MO&G Cape T.	Prof.		
Du Toit, D. A. H., MB ChB Cape T., MD Ley.	† Lectr.		
Nel, R. W. A., MB ChB Cape T.	† Lectr.		
<b>Medical Microbiology</b>			
Ikeda, H. D., DrMed Cologne	Prof.		
Classens, H. J. H., MB ChB MMed Cape T.	† Lectr.		
Fry, R., MB ChB Cape T.	† Lectr.		
<b>Medicine</b>			
Brink, A. J., MB BCh Rand, MD Pret., MRCP	Prof.		
Wicht, C. L., MB ChB MMed Pret.	† Lectr.		
Le Roux, D. G., MB ChB Cape T., MRCP	† Lectr.		
Swanepoel, A., MB ChB Cape T., MRCP	† Lectr.		
Dry, T. J., MB ChB Cape T., MS Mmm.	† Lectr.		
Poynette, L., MB ChB Cape T.	† Lectr.		
<b>Neuro-Psychiatry</b>			
Cluver, P. F., BA BM BCh Oxon	† Lectr.		
<b>Neuro-Surgery</b>			
De Villiers-Hammann, H. L., BA MD Munich	† Lectr.		
Van Niekerk, J. P., MB ChB Cape T.	† Lectr.		
<b>Occupational Therapy</b>			
Hugo, Miss Cynthia A., Dip(OccTher Rand)	Lectr.		
<b>Orthopaedics</b>			
Beil, H., MB BCh Belf., MChOth Lau., FRCSEd	† Lectr.		
Dall, G., MB ChM Cape T.	† Lectr.		
Steyler, J. C. S., MB ChB Rand, FRCSEd	† Lectr.		
Commerell, J. J., MB ChB Cape T., MCh Lau., FRCSEd	† Lectr.		
Roux, A., MB ChB Cape T., FRFPFGlas., FRCSEd	† Lectr.		
<b>Pædiatrics</b>			
Opes, W. H., MB ChB MMed Cape T.	† Lectr.		
Maggs, R. F., MB ChB Cape T., MRCPed, FRFPFGlas.	† Lectr.		
Sockling, P. V., MD, MRCP	† Lectr.		
Murray, A. B., MB ChB Cape T., MRCPed	† Lectr.		
Keet, Marie P., MB ChB Cape T., MMed	† Lectr.		
<b>Pathology</b>			
Weber, H. W., DrMed Bonn.	Prof.		
Retief, C. P., MB ChB MMed Cape T.	† Lectr.		
Schwär, T. G., MB ChB Pret.	† Lectr.		
Gravé, S. S., FRCS	Lectr.		
<b>Physiology</b>			
Brink, H. E., DSc	Prof.		
Engelbrecht, F. M., DSc	Sr. Lectr.		
Nienaber, M. W. P., BM BCh MA Oxon., BSc	Sr. Lectr.		
Esterhuizen, A. C., DSc	Lectr.		
Thart, B. F., MSc	Lectr.		
Wesserman, H. P., BSc MB ChB Pret., MD	Lectr.		

Burger, F. J., MSc 5 Student Assst., a Tech. Asst.	Lectr.	<b>MILITARY STUDIES</b> De Vos, Col. Prof. P. J. G., DSc Officer Commanding Military Academy	
<b>Public Health</b> De Villiers, J. P., BA MB ChB Cape T., MD Dub.	Sp. Lectr.	<b>Aerial Navigation and Aeronautics</b> Bergh, Maj. W. J., MSc Pres. De Boer, Lt. A. H., BMil	Lectr. Lectr.
<b>Radiology</b> Müller, C. J. B., MB ChB DMR Cape T.		<b>Chemistry</b> Bergh, Maj. W. J., MSc Pres. Boegman, Lt. N., BSc Pres.	Lectr. Lectr.
Beyers, J. A., MB ChB Cape T., MD MMed Pres.	†Lectr.	<b>Commerce</b> Hogenbik-Wynbergers, Capt. A., MBA Pres.	Lectr. Lectr.
Boyers, M. M. S., MB ChB Cape T., MMed Pres.	†Lectr.	<b>Economics</b> Piensar, Comdt. E., MComm Pres. Breedt, Maj. J. v. d. B., MComm Potchef.	Lectr. Lectr.
Keet, A. D., MB ChB Cape T., MD Asst.	†Lectr.	<b>Geography</b> Swaneveldor, Maj. C. J., MA Senechal, Capt. W. F. S., MA	Lectr. Lectr.
Kruger, H. N., MB ChB Dub., DMR Comd.	†Lectr.	<b>History</b> Dakkes, Maj. C. M., MA Pres. Nel, Lt.-Comdr. H. F., BA BEd Cape T.	Lectr. Lectr.
<b>Surgery</b> van Zyl, F. D. du T., MB ChM Cape T., FRCSed	Prof. †Lectr.	<b>Mathematics</b> Müller, Maj. C. J., MSc O'Connell, Capt. R. A., MSc	Lectr. Lectr.
Malherbe, E. B., MB ChM Cape T.	†Lectr.	<b>Physics</b> Kruger, Lt.-Instr. J., MSc Potchef. Junker, Capt. C., BSc	Lectr. Lectr.
Van der Riet, R. le S., MB ChB, FRCSed	†Lectr.	<b>Roman-Dutch Law and Commercial Law</b> Postma, Maj. L. V., LL.B. O.F.S.	Lectr.
van Zyl, J. J. W., MB ChB Cape T., FRCSed	†Lectr.	<b>Sea Navigation</b> De Villiers, Lt.-Comdr. J., BA S.A.	Lectr.
Malherbe, W. D. F., MB ChB Cape T., MD Asst.	†Lectr.		
Jordan, M., MD PhD Leyp.	†Lectr.		
<b>Thorax Surgery</b> Botha, G. S. M., MD ChB Cape T., ChM Bur., FRCS, FRFSGlas	†Lectr.		
<b>Urology</b> Burger, A. J. S., MB ChB Cape T., FRCSed	†Lectr.		
De Klerk, J. N., BSc MB ChB Cape T., FRCSed	†Lectr.		
Joubert, J. D. de B., BA MB ChB Cape T., FRCSed, FRFSGlas	†Lectr.		

## ADMINISTRATIVE AND OTHER STAFF

Liaison Officer: P. J. Lambert, MA. Asst. Registrar: A. J. Lubbe, BComm. Sr. Admin. Officer: J. E. Potgieter, MCom Pres., MSc.	Asst. Librarian: F. du Plessis, BA. Asst. Accountant: S. P. van Blerk, BComm. Ctrce. Clerk: F. J. G. Mostert, BA.
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## GENERAL INFORMATION

The Univ. of Stellenbosch had its origin in the Stellenbosch Gymnasium founded in 1866. In 1887, by private act of parliament, the arts dept. of the gymnasium was granted a charter as Stellenbosch Coll. In 1887 (the yr. of the golden jubilee) Her Majesty consented to the coll.'s being named 'The Victoria Coll. of Stellenbosch'. By the Univ. of Stellenbosch Act, No. 13 of 1916,

the coll. was incorporated on April 2, 1918, as the Univ. of Stellenbosch, and in addition to fulfilling its previous functions is entitled to examine its own students and grant degrees.

By Act No. 45 of 1926, the Elsenburg Sch. of Agric. and the fac. of agric. of the univ. were amalgamated to constitute the Stellenbosch Elsenburg Coll. of Agric. of the Univ. of Stellenbosch.



which 'shall be for all purposes the fee of agrice of the univ. and shall have all such rights and privileges and be subject to all such duties as are laid down by the Univ. of Stellenbosch Act, No 13 of 1916' By this amalgamation the fee of agrice was brought into more direct touch with practical farming.

In close connexion with the univ. is the Western Province Fruit Res. Stn. of the union dept. of agrice, which offers facilities for postgrad. res. in all branches of fruit production and fruit and vegetable processing. Several members of staff of the res. stn. are members of the univ. teaching staff.

Stellenbosch (pop. 23,600) is a univ. town 30 miles from Cape Town.

**CONSTITUTION.** The univ. consists of the chancellor, the vice-chancellor, the rector, the council, the senate and convocation, together with the profs., other lectrs. and students of the univ. The rector is *ex-officio* chairman of senate.

**INCOME (1961)** R2,273,866 (govt. grants, 52 3 per cent; annual grants from public bodies, 15 per cent; interest on investments, 6 2 per cent; fees, 10 7 per cent; other, 26 3 per cent (incl. boarding fees)).

**LANGUAGE OF INSTRUCTION.** Chiefly Afrikaans.

**FACULTIES AND DEANS (1963)** *Agric.*, Prof. J. C. Swart (animal husbandry); *arts & philos.*, (incl. depts. of Bantu studies and soc. studies), Prof. W. Kempen (Afrikaans-Dutch), *comin.*, Prof. D. E. W. Schumann; *eduen.*, Prof. C. F. G. Gunter; *engin.*, Prof. A. Heydorn; *for.*, Prof. G. L. F. Hartung; *law*, Prof. A. B. de Villiers; *med.*, Prof. F. D. du T. van Zyl (*surg.*); *military sci.*, Prof. P. J. G. de Vos; *sci.* (including dept. of dom. sci.), Prof. G. G. Cillie (*maths.*), *theol.*, Prof. F. J. M. Potgieter.

**LIBRARIES.** Christian Meerns and Carnegie. 144,576 vols. and 1400 periodicals. The univ. receives each yr. nearly 538 different annual and other publications.

**LABORATORIES.** Chem. inst. (De Boers bldg.) for biochem. sci.; Merensky bldg. (*phys.*); home econ. bldg.; educn. bldg.; *phys. educn.* bldg.; *agric. bldg.*; lab. and workshop of fac. of engin.; natural sci. bldg.; D. F. Malan bldg. (*physiol.* & *anat.*); Van der Stort bldg. (*psychol.*).

**TRAINING HOSPITAL.** The Karl Bremer H. at Bellville, 17 mls. from Stellenbosch, provides facilities for undergrad. and grad. teaching for the fac. of med. of the univ.

**SPECIAL EQUIPMENT, COLLECTIONS, ETC.** Bot. gdn. and 3 hot-houses containing large collection of the peculiar xerophytic flora of S.A. Herbarium. Dept. of agric. chem. bldg. and equipment for manual pot-experiments. Dept. of Bantu studies' collection of specimens of native art and industry. Zool. and geol. museums. Vivarium. Poul. dept. and Western Province res. stn. for study of deciduous and other fruit trees. Viticulture dept. for studies in wine and

spirit production. Dept. of educn. psychol. child guidance clinic. Dept. of drama: exper. theatre.

**ADMISSION.** See p. 1456.

**FIRST DEGREE.** 3 yrs. (4th yr. for hon.)—BA (Bantu langs., classics, comm., econ., ethiol., geog., hist., law, mod. langs., music, native admin., philos., *phys. educn.*, psychol., soc. sci., speech trg. & dram. art); a candidate for hon. specializes for 1 yr. after BA in one of the 2 majors which he took for the BA degree, BASoc Work, BSc (appl. maths., bot., chem., entomol., genetics, geol., maths., microbiol., *phys.*, *physiol.*, psychol., stat. maths., zool.); a candidate for hon. specializes for 1 yr. after BSc in one of the 2 majors which he took for the BSc degree—hon. possible in appl. maths., bot., chem., entomol., genetics, home econ., maths., microbiol., military sci., *phys.*, stat. maths., zool. only), BComm. (accty., comm., econ., statistics, indust. psychol., transport); BA hon. in Africa studies, 1 yr. after BA, 3 yrs.—BMil., 4 yrs.—BDram., BMus., BScHomeEc., BScAgric. (agron.-animal husband., agro-biochem., pomol., agric. chem., viticulture, microbiol., poultry husband., dairying, entomol., agric. econ., genetics), BScFoodTech., BScFor., 5 yrs.—BSc, BEng. (civil, mech., electro-tech., agric.); 6 yrs.—MB ChB.

**HIGHER DEGREES.** 1 or 2 yrs.—BEd., 2 yrs. after BA(Law) or 3 yrs. after any other bachelor's degree—LLB; 2 yrs.—MA, MASocWork, MMil., MSc, MScHomeEc., MScAgric., MScFor., MComm., MEng., 3 yrs.—MEd., MMed. (surg., med., obstet. & gynaeol., anaesth., pnd. pathol., radiolog., ophthalmol., otorhinolaryngol., dermatol., candidates are not allowed to register for MMed. before 2 yrs. after obtaining MB ChB and after registration for 1 yr. with S.A. Med. & Dent. Council); MD (surg., med., obstet. & gynaeol., ped., anaesth., path. radiolog.); candidates are not allowed to register for MD before 5 yrs. after obtaining MB ChB, and before complying with the requirements for MMed. or equivalent; 4 yrs.—BD; 2 yrs. after master's degree—DPhil., DLitt., DMil., DSc, DEd., DEdPh., DScAgric., DScFor., DComm., DEng., PhD(Eng.), PhD(Med.)—candidates must register for 1 yr. and cannot obtain PhD(Med.) before 4 yrs. after MB ChB, MD—1 yr. after MMed.; 2 yrs. after BD—DD; 2 yrs. after LLB—LL.D.

**HONORARY DEGREES.** DPhil., DLitt., DSc, DEd., LL.D., DComm. may be conferred as honorary or 'earned' degrees.

**DIPLOMAS.** Higher dipl. in librarianship, sec. teacher's, 1 yr. postgrad., dipl. in hosp. dietetics, 1 yr. after BScHomeEc.; lower sec. teacher's, higher primary teacher's, teacher's dipl. in *phys. educn.*, soc. work, for teachers of sp. classes, teaching of music, teaching of dramatic art & speech trg., occupational therapy, 3 yrs.; lower dipl. in librarianship, home econ., dipl. for church organists, 2 yrs.; teaching of home econ., 1 yr. after dipl. in home econ.

**CERTIFICATES.** Sp. teacher's cert in music, 3 yrs; primary teacher's cert (sp) in music, primary teacher's cert (sp.) in speech trng. & drama act, elem. cert in speech trng. & drama act, elem. cert in theory of acety., 4 yrs.

**RESEARCH.** Res. work forms an important part of the activities of the Univ. In depts. of educat. psychol., psychol., sociol., geog., hist., agric., Bantu studies, Afrikaans-Nederlands, geol., biol., law and econ., special attention is devoted to South African problems. The results of res. work are published regularly in the *Annals* of the Univ. The Univ. Council awards special grants for carrying on scientific investigational work.

**FEEs.** Registration (incl. sports fee and fees payable to students' representative council), R11 p.a. Composite (incl. tuition, exam., lab., library and, in final yr., graduation fees), p.a. *Bachelor's degrees* BA, BComm, R2; BAPhysEd, BA SocWork, BScPhysEd, R100, BSc, BScHomeEc, BScAgric, BScFoodTech, BSc BEng, MB ChB (1st yr.), BScFor, LLB, R112, BMus, BDrum, BA (drama), R120; BA (music), BA (speech trng. & dramatic act), BEd (1 yr. postgrad. course), BEd (2 yrs. postgrad. course), R20; BD, registration fees for 4 yrs. plus R32 p.a. for 1 yr.; MB ChB (incl. 1st yr.), R170; BMil, R100 exam. fees only. *Honours degrees* BA hon., BASocWork hon., BSc hon., BComm hon., R80 for 1 yr. *Master's degrees* (following on an hon. degree and MEd following on BEd), R20 for 1 yr., (following on bachelor's degree), MA, MASocWork, MSc, MComm, R80 for 1st yr. and R20 p.a. for further yrs. (students reading only 1 yr. for master's degree), MA, MASocWork, MSc, MComm, R100, MSc HomeEc, MEdPh, MScAgric, MScFoodTech, MScFor, MEdPh, R100 for 1 yr. and for MSc HomeEc and MEng, R20 p.a. for each further yr. (students residing at Stellenbosch), MEng (students not residing at Stellenbosch), R64 p.a. for each yr. after 1st yr., MMed, R60 p.a. for first 2 yrs., R20 p.a. for 3rd yr., MMus, R132 for 1 yr.; MEd, R60 for 1st and 2nd yrs., R40 for 3rd yr. *Doctor's degree*, R56 p.a. for 2 yrs.; DEng (students who completed res. work away

from Stellenbosch), R102, PhD(Eng) (students who completed res. work away from Stellenbosch), R144 p.a. for 2 yrs., MD, R104 p.a. for 1 yr.; PhD(Med), R104 p.a. for 1 yr. *Diploma courses*: dipl. in home econ., teacher's dipl. in home econ. & needlework, teacher's dipl. in phys. educ., sec. teacher's dipl., lower sec. teacher's dipl. (with BA subjects), lower sec. teacher's dipl. (with BSc subjects—3rd yr.); higher primary teacher's dipl. (also after BA), lower and higher dipl. in librarianship, dipl. in soc. work, dipl. for teachers of sp. classes, R110, dipl. in occupational therapy, R112, dipl. in hosp. dietetics, R250 registration fees plus R3 exam. fees, cert. in theory of accountancy, R80 p.a.

**ACADEMIC YEAR.** 4 terms Term dates (1963) : Feb. 25–April 11, April 22–June 27, July 29–Sept. 27, Oct. 7–Dec. 13

**PHYSICAL TRAINING.** Although phys. trng. is not compulsory the majority of the students participate in rugby, cricket, tennis, baseball, netball, boxing, swimming and athletics.

**HEALTH OF STUDENTS.** Assistance of fully trained nurse at disposal of all students who may require her services. Periodical inspections to ascertain general health of all students in Univ. hostels.

**RESIDENCE.** For men: John Murray-Huis (tel. 1302), accomm. 437, R115 p.a., Wilgenhof (tel.: 0032), 104, R109 p.a., Heidelberg (tel.: 0043), 204, R115 p.a.; Huis Visser and Huis Marais (tel.: 0046 and 0053), together accomm. 247, R115 p.a., Simonsberg (tel.: 0072), 278, R115 p.a., Eendrag (tel.: 0105), 260, R115 p.a. For women, each R111 p.a., except Greylock and Macdonaldhus, each R106 p.a.: Huis de Villiers (tel.: 0047), accomm. 116, Huis ten Bosch (tel.: 0015), 96; Huis van Niekerk (tel.: 0037), 160; Harmonie (tel.: 0041), 69; Monica (tel.: 0058), 120; Lydia (tel.: 1323), 154; Macdonaldhus (tel.: 0033), 20; Greylock (tel.: 0043), 27; Minerva (tel.: 0088), 236.

**PUBLICATIONS.** *Calendar* (annual, Nov.); *The Stellenbosch Student* (by students' rep. council); *Annals of the Univ. of Stellenbosch* (by senate); *Mateland* (for old students and donors).

## THE YEAR 1961

**PRINCIPAL BENEFACTIONS.** Total value of all benefactions received, R384,001.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: extensions to: women's residences (Huis de Villiers and Harmonie); bldgs. for phys. (Meerens bldg.), phys. educ., nat. sci. *Approaching completion* exper. theatre; new bldgs. for: geol., forestry; new women's residence; extension to bldg. for chem.

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of med. microbiol.; dept of transport.

**RETIREMENTS.** Prof. O. T. de Villiers (vet.

sci.); Prof. O. S. H. Rennie (pomol.); Prof. C. J. Theron (viticulture).

**RESIGNATIONS.** Miss Joy Hollistrom (music); D. M. Kemp (chem.), apptd. sr. res. chemist, Atomic Energy Bd.; J. G. Kesting (librarianship), to library post in Canada; L. D. Nel (maths.), apptd. sr. lectr., Cape T., J. St. E. Pretorius (hist.), apptd. sr. lectr., U.C. for Indians; Rosemarie Roberts (phys. educ.), on marriage, R. L. Strassacker (mech. engin.), apptd. chairman of ESCOM, M. J. Swart (hist.), apptd. sr. lectr., U.C. of Western Cape; Mrs.

Marieta L. van Zyl (home econ.), P. F. D. Weiss (Semitic langs.), apptd. dir., Africa Inst

DEATHS: Prof B. I. C. van Eeden (prof. of Bantu langs.)

HONORARY DEGREES: DComm—J. E. Holloway, formerly sec. of finance and high commissioner in London; DPhil—Mrs Zenilda Steyn, chairman, Cape Town City Unlity Housing Co.

#### Statistics

##### STUDENT NUMBERS, JUNE 1961

	Full-Time	Part-Time
Men . . .	2846	289
Women . .	1367	100
Total . . .	4213	389

Distribution by Faculties. Agric, 387; arts, 1339; comm., 459; educn., 629; engin., 310; for, 56; law, 46; med, 297; military sci., 87; sci., 930; theol., 62. Total, 4602

Included in the figures above are:—

Postgraduate students, 676.

New admissions, 1191

Students from other countries, 233 (Countries from which largest numbers came: S.W. Africa, 179; S. Rhodesia, 24).

DEGREES AWARDED (1961). Agric: BSc (Agric), 56; BSc(FoodTech), 2; MSc(Agric), 18; DSc(FoodTech), 1. Arts: BA, 265; BA (SocWork), 13; BMus, 8; BA hon., 60; BA (SocWork) hon., 3; MA, 10; DLitt, 1; DPhil, 6. Comm: BComm, 48; BComm hon., 9. Educn: BEd, 33; BEdPh, 1; MEd, 2; MEdPh, 1; DEd, 1. Engin.: BSc BEng, 53. For: BScFor, 11; MScFor, 2. Law: LLB, 17. Med: MB ChB, 19; MMed, 3; MD, 1. Milit: BMil, 17. Sci: BSc, 114; BScHome Ec, 9; BSc hon., 27; BScHomeEc hon., 1; MSc, 16; DSc, 1. Theol: BD, 7.

DIPLOMAS AWARDED (1961) Soc work, 5; higher dipl. in librarianship, 7; lower dipl. in librarianship, 8; teacher's dipl. in music, 17; church organists, 1; home econ, 55; hosp. dietetics, 1; sec. teacher's dipl., 115; teacher's dipl. in home econ. & needlework, 14; lower sec. teacher's dipl., 8; higher primary teacher's dipl., 20; teacher's dipl. in phys. educn, 12; dipl. for teachers of sp. classes, 13; comm, 3.

CERTIFICATES AWARDED (1961). Sp. teacher's cert. in music, 1; cert. in choir trg, 14; primary teacher's cert. (sp.) in speech trg. & drama act (Afr.), 3; primary teacher's cert. (sp.) in music, 3.

# UNIVERSITY OF THE WITWATERSRAND JOHANNESBURG\*

Founded 1921

Postal Address: Milner Park, Johannesburg, Transvaal, South Africa

Cables and Telegrams: University, Johannesburg

Telephone: 835-8181

CHANCELLOR—Hon. O. D. SCHREINER, MC, MA Hon. LL.D.

VICE-CHANCELLOR AND PRINCIPAL—I. D. MACCRONE, MA Cape T. & Oxon, DPhil

VICE-PRINCIPAL—I. G. THOMAS, MA Oxon.

CHAIRMAN OF COUNCIL—B. L. BERNSTEIN, BA LL.B.

PRESIDENT OF CONVOCATION—S. S. ISRAELSTAM, MSc PhD, FRIC

REGISTRAR—A. DE V. HERMOLDT, BCom

FINANCE OFFICER—E. L. HODDLE, BCom SA

LIBRARIAN—J. W. PERRY, MA Camb., DipLib Lond., FLA

## TEACHING STAFF

[†=Part-Time]

<b>Accounting</b>		Blecher, S. R., BSc MB BCh	Lectr
Wimble, B. J. S., FSAA	Prof, Hd. of Dept	8 Temp Assts., 6 Lectrs	†, 3 Sr. Lab Techns
Canna, T., BCom Cape T.	Sr. Lectr	<b>Archaeology</b>	
Taylor, I. R., BL Glas	Sr. Lectr	Jackson, S. P., DIC, PhD Lond	MA Actg. Hd
Kritzinger, L.	Sr. Lectr	Mason, R. J., BA PhD Cape T., BCom	Res Officer
Steele, J. T., BCom	Sr. Lectr	Beaumont, P. B., BSc Cape T.	Asst. Res. Officer
King, K. W., BCom	Sr. Lectr.	<b>Architecture and Quantity Surveying</b>	
2 Lectrs.†		Fussler, J., BArch	Prof.
<b>Afrikaans and Nederlands</b>		Howie, W. D., BArch Dip/TP	Assoc. Prof.
Louw, N. P. van W., MA BEd Cape T.	Prof, Hd. of Dept	Mallows, E. W. N., MA Camb	Sr. Lectr.
Hen. DLitt Utrecht	Prof	Shunn, J. M., BArch Dip/TP	Lectr.
Coetsee, A. J., DLitt&Phil Nijmegen, MA	Prof	Tomaselli, U. R., BArch	Lectr.
DLitt	Assoc Prof	Beinart, J., BArch Cape T., MArch Mans., MCP Yale	Lectr.
Nienaber, P. J., MA S.A., DLitt&Phil Assnt.	Assoc Prof	Purcus, M. E., DipArch	Lectr.
Van Heerden, E., MA Stell., DLitt&Phil Ghent	Sr. Lectr.	Lennard, McD. D., BArch	Lectr.
Du Plessis, P. G., BA	Lectr.	4 Lectrs †	
1 Asst.†		<b>Bantu Languages</b>	
<b>Anatomy</b>		Cole, D. T., MA	Prof.
Tobias, P. V., PhD MB BCh, FRAI, FRSAF	Prof	Beuchat, Phyllis D., BA	Lectr.
Allan, J. C., MB ChM, FRCSed	Sr. Lectr.	Moepehla, I. M., BA	Lang. Asst.
Andrew, Ann, MSc	Lectr.	Mfeka, R. M., BA Rhodes	Lang. Asst.
Geldstein, D. J., BSc MB BCh	Lectr.	Sikilume, J. M. R.	Temp. Jr. Lang. Asst.
De Villiers, Mrs Hertha L. A., MSc	Lectr.	<b>Botany</b>	
De Beer, Pamela M., MB BCh	Lectr.	...	Prof.
Veonstra, Mrs. Emily M., BSc	Lectr.	Roux, E. R., PhD Camb., MSc	Sr. Lectr.

\* Member of the Association of Universities of the British Commonwealth

Hancock, Florence D., MSc  
Swart, H. J., DSc *Utrecht*  
Walsenach, R., BSc *S.A.*, MSc  
Bahnsky, J. B., PhD *Leid.*  
Lucas, Mrs. Annabelle, MSc  
Gillard, P., BSc  
2 Sr. Lab. Techn.

Sa. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Jr. Lectr.

### Chemistry and Chemical Engineering

Beckeberg, O. G., MA *Oxon.*, DSc, FRIC  
(Org. C.) Prof., Hd. of Dept.  
Sebba, F., DIC, MSc PhD *Cape T.*,  
FRIC (Phys. C.) Prof.  
Israelstam, S. S., MSc PhD, FRIC Assoc. Prof.  
Mannes, J. L. C., MSc PhD Sr. Lectr.  
Simpson, J. D., MSc PhD Sr. Lectr.  
Hall, P. G., DIC, BSc PhD *Leid.* Sr. Lectr.  
Van Es, T., BSc PhD Lectr.  
Walraven, J. J., ChemEng *T.H. Delft* Lectr.  
Glasser, L., BSc *Cape T.*, PhD *Leid.* Lectr.  
Ahlers, W. C., MSc *Prat.* Lectr.  
Stankun, B., MSc PhD Lectr.  
Purfield, T. A., BSc PhD *Cape T.* Lectr.  
2 Grad. Assts., 2 Sr. Lab. Techns.

### Classics

Davis, S., MA *Cambr. & Rand.*, DLitt Prof.  
Hanshoff, T. J., BA *Cape T.*, BLitt *Oxon.*,  
DLitt *Aust.* Temp. Sr. Lectr.  
Thorpe, A., BA *Oxon.*, MA Lectr.  
Lagouros, A., BA *Constantinople* (on leave) Lectr.  
Saddington, D. B., BA Lectr.  
Sellschop, Stella L., MA Lectr.

### Commerce and Applied Economics

Richards, C. S., MCom *Durb.*, DSc(Econ)  
Prof., Hd. of Dept.  
Van Waasdyk, T., EconDrs *E.H. Rotterdam*,  
MCom PhD Sr. Lectr.  
Goedhuys, D. W., EconDrs *Aust.* Sr. Lectr.  
Pacey, Mary V., BA *Rdg.* Grad. Res. Asst.

### Dentistry, see below

### Divinity

Geyer, A. S., MA DD *Prat.* Prof.

### Economics and Economic History

Lachmann, L. M., MSc(Econ) *Leid.*,  
DrRerPol *Berl.* Prof.  
Samuels, L. H., BCom Sr. Lectr.  
Wright, H. R. C., PhD *Cambr.* Sr. Lectr.  
Rademeyer, W. F., MComm *Potchef.* Lectr.  
2 Lectrs.

### Education

Gowhy, N., BSc EdB MA *Glar.*, PhD *Burw.* Prof.  
Linder, C. B., MA Hon. Prof.  
Timmer, R., BA *Natal & Cambr.*, BE  
*Natal* Lectr.  
Muir, R. K., BA *BE* Lectr.

### Engineering, see below

### English

Partridge, A. C., MA *Prat.*, PhD *Cape T.* Prof.  
Mews, Harold, MA *Leid.*, FLA Sr. Lectr.  
Burkshaw, P. C., MA *DipEd Oxon.* Sr. Lectr.  
Fosbury, M. W., BA *Oxon.* Lectr.  
Chendle, B. D., BA Lectr.  
Friend, Margaret A., BA *Cambr. & Rand.* Lectr.  
Van Zyl, J. A. F., MA *O.F.S.*, BA *Oxon.* Lectr.  
Mackennan, D. A. C., MA *Edin.* Temp. Lectr.  
Harvey, R. W., BA *S.A.* Jr. Lectr.

### Fine Arts

Martenssen, Mrs. Heather, PhD *Leid.*,  
BArch *MA* Prof.  
Leong, Marjorie K., BA(FA) *S.A.* Lectr.  
Mitchell, Mrs. Rita Instr.  
Sash, Cecily, BAFineArts Instr.

### Geography

Jackson, S. P., DIC, PhD *Leid.*, MA Prof.  
Fair, T. J. D., MA *S.A.*, PhD *Natal* Sr. Lectr.  
Hart, G. H. T., BA *Rhodes* Jr. Lectr.  
1 Grad. Asst.

### Geology

Geyers, T. W., MA DSc *Cape T.*,  
DrPhil *Munich*, FGS Prof.  
Mendelsohn, E., MA *Harc.*, MSc Assoc. Prof.  
Van Bijson, W. J., MSc *Prat.*, PhD Sr. Lectr.  
Plumstead, Mrs. Edna P., DSc †Sr. Lectr.  
McIver, J. R., MSc *Stell.* Lectr.  
Brink, A. B. A., BSc *Prat.* Lectr.  
Tiuswels, J. F., MSc PhD *Cape T.* Lectr.  
Poole, E. J., BSc(Eng) Jr. Lectr.  
1 Sr. Lab. Techn.

### Econ. Geol. Res. Unit

Pretorius, D. A., MSc Sr. Res. Fellow  
Roering, C., BSc(Eng) Res. Fellow  
Winter, H. de la R., MSc *Prat.* Res. Fellow  
6 Res. Scholars

### Geophysics

Graham, K. W. T., BSc PhD *Cape T.* Prof.  
Lectr.

### German

Seidler, H., PhD *Innsbruck* Prof.  
Tober, K., PhD *Innsbruck* Sr. Lectr.  
Bruckl, O. K. J., PhD *Tübingen*, BA Jr. Lectr.  
1 Lectr.

### Hebrew

Rappaport, S., PhD *Vienne* †Prof.  
1 Lectr. Temp. Lectr.

### History

Marras, J. S., MA *Cape T.*, BA *DPhil Oxon.* Prof.  
Ballinger, R. B., MLitt *Cambr.*, BA *S.A.* Sr. Lectr.

Garrison, N. G., BA Camb., MA  
1 Grad. Asst.

Lectr.

**Metallurgy**, see Engineering, below

### International Relations

Cockburn, B., MA Oxon., PhD Mich.

Jan Smuts Prof.

**Mining Engineering**, see Engineering,  
below

### Music

### Law

Hahlo, H. R., DrJus *Halle*, LLB

Prof.

Kahn, E., BCom LLB

Prof.

Lansdown, A. V., BA Cape T., LLB S.A.

Sr. Lectr.

Boberg, P. Q. R., BA LLB

Sr. Lectr.

Hunt, P. M., BA LLB Natal

Sr. Lectr.

Uys, J. F., BA LLB O.F.S., LL.D. Ley.

Sr. Lectr.

Cookram, Gail-Maryse G. E., LL.M. Lond.

Sr. Lectr.

3 Lectrs. †

Prof.

Schneider, U. V., MMus S.A., PhD Rhodes

Sr. Lectr.

Van Oostveen, K.

Lectr.

1 Lectr. †, several Instrs. † in Practical Per-  
formance

### Philosophy

Van Ryewyck, W. A. E., LL.D. PhD *Leuven*

Prof.

Sr. Lectr., Actg. Hd.

Thompson, I. E., BA Natal

Lectr.

### Librarianship

Perry, J. W., MA Camb., DipLib Lond.,

FLA

Hd. of Dept.

Lunn, Miss. Betty J., BA, FSALA

Lectr.

3 Lectrs. †

### Phonetics and General Linguistics

Lanham, L. W., MA PhD

Prof.

Blackwold, G. H., DPhil *Hamburg*

Sr. Lectr.

1 Lectr. †, 1 Lab. Techn.

### Physics

### Logopedics

Bauman, Mrs. Sheila, MA

Sr. Lectr.

Aron, Myrtle, MA

Clin. Tutor

Marais, Margaret, MA

Clin. Tutor

3 Jr. Clin. Tutors

### Mathematical and Physical Sciences

Allen, J. F., MSc PhD

Tutor

Brander, J. M., BSc Wales

Tutor

Khoury, J.

Tutor

### Mathematics

Isaacs, G. L., MSc Cape T., PhD Lond.

Prof., Hd. of Dept.

Young, F., MA DipActMeth

Assoc. Prof.

Boyd, A. V., MSc

Sr. Lectr.

Harrington, Catherine F., MSc

Sr. Lectr.

Strom, B., MA Oxon.

Lectr.

Schmiedt, Miss. Janet M., BA

Lectr.

Higgs, D. A., BA Camb., BSc

Lectr.

Wood, I. D., BSc Rhodes, MA Camb.

Lectr.

Mohamed, I. J., PhD Lond, MSc

Lectr.

Hardwick, Joanne C., BSc Cape T.

Jr. Lectr.

Carter, M. R., BSc

### Mathematics, Applied

Blakesley, A. E. H., MSc Stell., DSc

Prof.

Oliver, H. O., MSc Stell.

Sr. Lectr.

Van der Merwe, J. H., DSc Ley, MSc Stell.

Sr. Lectr.

Kuperman, I. B. Z., MSc Cape T.

Sr. Lectr.

Walker, R. M., MA Oxon, BSc

Lectr.

Buric, G. C., MSc

Lectr.

Cronje, J. P., MSc

Lectr.

Nabarro, F. R. N., MBE, BSc MA Oxon.,

DSc *Bum.*

Prof., Hd. of Dept.

Loubser, J. H. N., BSc(Eng) Cape T.,

MSc Stell., DPhil Oxon. (Exper. P.) Prof.

Brommert, J. W., BSc

Sr. Lectr.

James, D. L., BSc(Eng)

Sr. Lectr.

Ramsey, W. H., BSc *Belg.*, PhD *Brist.*

Sr. Lectr.

Silk, E. C. H., PhD

Sr. Lectr.

Hirson, B. M., BSc

Lectr.

Delatizky, B., MSc Cape T.

Lectr.

Jackson, P. J., BSc

Lectr.

Matthews, J. W., BSc

Lectr.

Henning, C. A. O., MSc Stell.

Lectr.

Guy, L. S., MSc Natal

Lectr.

Van Ryneveld, W. P., MSc O.F.S.

Lectr.

Scott, Mary J., BSc *St Lawrence*,

Temp. Lectr.

PhD *Yale H.*

Isotope Officer

Ken, D. S. M., BSc

1 Instrum. Maker, 1 Sr

Lab. Techn.

Nuclear Phys. Res. Unit

Sallachop, J. P. F., MSc Stell., PhD Camb.

Prof.

Mouton, W. L., MSc O.F.S.,

Res. Fellow

Physica *Utrecht*

Keddy, R. J., MSc Pret., PhD Lond.

Res. Follow

Munguy, D. W., BSc

Res. Follow

2 Res. Assis., 1 Sr. Lab. Techn.

Solid State Phys. Res. Group

Nabarro, F. R. N., MBE, BSc MA Oxon.,

DSc *Bum.*

Dir.

Schönung, F. R. L., PhD

Res. Fellow

Schlosser, H. H., PhD *Cologne*

Res. Fellow

Tanner, Mrs. Harriet E. C., BA *Tor.* &

†Res. Fellow

Camb., PhD Camb.

### Medicine, see below

Holt, D. B., PhD *Burw.*, MSc. Sr. Res. Bursar. Schlemmer, L., BA *Prot*. Lectr.  
4 Res. Assts. 3 Grad. Tutors†

**Physiology**

Wyndham, C. H., MB BCh, MRCP. Otto Bent Prof.  
(Physiol. Chem.) Prof.  
Levy, P. R., DPhil *Oxon*, MSc. Sr. Lectr.  
Savage, Nerina, MSc *O F S*, PhD *Camb*.  
De Caeste, E. A., MA *Camb*. Sr. Lectr.  
Trout, G. E., BSc *Sheff*. Lectr.  
Goldstone, B. W., BSc MB BS *Land*,  
FRCSEd. Lectr.  
9 Lectrs †, 3 Sr. Lab. Techns.

**Political Studies, including Local Government**

Le May, G. H. L., BA *S.A.*, MA *Oxon*. Prof.  
Livingstone, D. S., MA *Durh*. Sr. Lectr.  
Jordan, R. J. P., BA LLB *Dub*. Sr. Res. Officer.  
Siedler, A. W., BA. Jr. Lectr.

**Psychology**

Lejeune, Yvonne A., PhD. Prof.  
Hannon, Mrs. Alma E., MA *Cape T*. Sr. Lectr.  
Radloff, W. P., BSc *Natal*. Lectr.  
Doyle, G. A., MA *Natal*, PhD *W. Reserv*. Lectr.  
Joffe, J. M., BA. Jr. Lectr.  
2 Lectrs †

Quant. Surveying, see Archt. and Quant. Surv.

**Romance Studies**

Valkhoff, M., DLitt & Phil *Amst*.  
(French) Prof., Hd. of Dept.  
Bismuth, R. E. V., DtsL *Lille*.  
(French) Sr. Lectr.  
Zamperutti, A. W., Dottin Lett.  
*Univ Econ. Inst. (Vance)*.  
(Italian) Temp. Sr. Lectr.  
Blair, Mrs. Dorothy S., BA *Land*, PhD.  
(French) Lectr.  
Bettencourt, Mrs. Maria E. (Portuguese) Lectr.  
Parker, J. M., PhD *Camb*. Temp. Sr. Lectr.  
1 Lectr. †

**Social Anthropology and African Administration**

Maswick, M. G., MA BA(SS) *S.A.*. Prof.  
Lewin, J., BA LLB *Cape T*. Sr. Lectr.  
Blacking, J. A. R., MA *Camb*. Lectr.

**Sociology and Social Work**

Wagner, O. J. M., MA *Cape T*, DPhil *Stell*. Prof.  
Badenhorst, L. T., MA *Stell*, DLitt. Sr. Lectr.  
Engelbrecht, G. K., MA PhD *S.A.*. Sr. Lectr.  
Sawright, Mrs. Thelma R.,  
MSocSc *Cape T*, PhD. Sr. Lectr.  
Muller, Mrs. Cecil, BA (SocSc) *Stell*. Lectr.

**Statistics**

Kensch, J. E., DiplActuarialMaths *Edin*,  
MSc. Prof.  
Van der Meyden, F., BCom *S.A.* Lectr.  
Van Gorp, A. B. M., DiplEng *T II Delft*. Lectr.  
2 Lectrs. †

Surveying, see Engineering, below

**Zoology**

Balinsky, B. I., DBiolSc *Kiev*. Prof.  
Nolte, D. J., MSc *Prot*, DSc. Sr. Lectr.  
Kalk, Mrs. Margaret J., BSc *Land*, PhD.  
MacNae, W., BSc *Glas*, PhD *Cape T*. Sr. Lectr.  
Hartmann-Goldstein, Mrs. Ingoborg J.,  
BSc *Prot*, PhD *Vienne*. Lectr.  
Gahie, Mrs. Vivian, PhD. Lectr.  
James, V. G., BSc. Lectr.  
Fahnen, B. C., BSc. Jr. Lectr.  
1 Sr. Lab. Techn.

**DENTISTRY**

(for subjects of first 2 yrs — Anat., etc., see above;  
for other subjects common to D. and Medi-  
cine—e.g. Pathol., see Medicine, below)

**Children's Dentistry**

.. .. †Lectr. & Clin. Lectr.

**Clinical and Applied Oral Anatomy**

Steen, L., MB BCh MDS. Hon. Lectr.

**Conservative Operative Dentistry**

Shepherd, G. F., LDS *Lep*. †Prof.

**Dental Anaesthetics**

Bentel, H., MB BCh. †Clin. Lectr.  
London, M. S., MB BCh DA. †Clin. Lectr.  
Fisher, M., MB ChB *Liv*.  
†Lectr. & Clin. Lectr.

**Dental Ethics and Jurisprudence and Conduct of Dental Practice**

Kessel, A., BDS. †Lectr.

**Dental Metallurgy and Properties of Dental Materials**

Valds, C. F., FDSRCS. Lectr.

**Dental Prosthetics**

Hossack, F. A., Hon. MDS *Durh*. †Prof.

**Dental Radiology**

Gordon Stewart, F., MB BCh *Dub*,  
DMRE *Camb*, FRCSI. Hon. Radiologist.  
Dodds, A. E., BSc BEd *S.A.*, BDS. Prof.

<b>Dental Science</b>		Schlesinger, C. B., BSc(Eng)	Lectr.
Staz, J., DDS, FRSSAf	Prof. Hd. of Dept.	Nabarro, T. N., BSc(Eng)	Jr. Lectr.
Hossack, F. A., Hon. MDS Durh.	†Prof.		
Shepherd, G. F., LDS Loe.	†Prof.		
<b>Dental Surgery</b>		<b>Civil Engineering</b>	
Staz, J., DDS, FRSSAf	Prof.	Jennings, J. E. B., SM M.I.T., BSc(Eng), MICE	Prof. Hd. of Dept.
		Ockleston, A. J., BE N.Z., PhD Brat., DSc(Eng), MICE	(Structural E) Prof.
<b>Experimental Odontology</b>		Midgley, D. C., BSc(Eng)	
Dreyer, C. J., BSc S.A., BDS, HDiplDent	Prof.	PhD Natal, MICE	(Hydraulic E) Prof.
<b>Maxillo-Facial and Oral Surgery</b>		Mills, R. H., BSc(Eng)	Sr. Lectr.
Brown, L. J.	†Prof.	Maltz, M., BSc(Eng)	Sr. Lectr.
Brown, J. M., BDS, FDSRCS	†Lectr.	Knight, K., BSc(Eng) PhD	Lectr.
		Schwartz, H. I., DIC, BSc(Eng)	Lectr.
		Wolhuter, C. W., BSc(Eng) Stett.	Lectr.
		Bright, G. E., DIC, PhD Lond., MSc(Eng)	Lectr.
<b>Oral Medicine</b>		Nutt, L. P., BSc(Eng)	Lectr.
Dodds, A. E., BSc BEd S.A., BDS	Prof.	1 Sr. Lab. Techn.	
<b>Orthodontia</b>		<b>Electrical Engineering</b>	
Gavron, G., BDS DipOrth	†Lectr.	Bozoli, G. R., DSc(Eng), MICE	
<b>Pathology and Histopathology of the Teeth and Oral Cavity</b>		(Light Current) De Beers Prof. Hd. of Dept.	
Baile, G. G., FDSRCS	Sr. Lectr.	Cornack, W., BSc(Eng) Cape T., DSc(Eng), MICE	(Heavy Current) Prof.
<b>Pharmacology</b>		Katz, R., MSc(Eng)	Sr. Lectr.
Breyer, J. H., Tundata Utrecht	Lectr. & Clin. Lectr.	Wood, N. R., MA Camb.	Sr. Lectr.
		Posci, K., BSc(Eng) PhD	Sr. Lectr.
		Henderson, D. F., PhD Harv., BSc	Sr. Lectr.
		Webb, V. L., BSc(Eng)	Lectr.
		Milner, M., BSc(Eng)	Lectr.
		Korvink, G. J., BSc(Eng)	Lectr.
		Viskamp, N. E., BSc(Eng)	Jr. Lectr.
		2 Sr. Lab. Techn.	
<b>Pre-Clinical Prosthetic Dentistry</b>		<b>Mechanical Engineering</b>	
Van Raenon, J. F., DiplBact Lond., BDS	Lectr. & Demn.	Smoleniec, S., MSc Warsaw, DIC, PhD Lond., M(SA)IME	John Orr Prof.
HDiplDent		Rallas, C. J., MSc(Eng), M(SA)IME	Sr. Lectr.
		Simon, H. A., PhD Mnuu, BSc(Eng)	Sr. Lectr.
		Duggan, T. O'D., BSc(Eng)	Sr. Lectr.
		Favero, R. A. C. R., Dettling Geneva, MSc(Eng), M(SA)IME	Sr. Lectr.
		Boyd, C. O., BS(MetEng) Carnegie Tech., BSc	Lectr.
		Dimitrou, C., BSc(Eng) Glas.	Lectr.
		Szeczykowski, S. J., MSc Warsaw	Lectr.
		Skura, B. W., MSc(Eng)	Lectr.
		1 Techn. Asst., 1 Grad. Asst., 1 Sr. Lab. Techn.	
<b>Public Dentistry</b>		<b>Metallurgy</b>	
Leing, Jean, LDS DPD St.And.	Hon. Lectr.	.....	Prof.
<b>Special Anatomy and Physiology</b>		Mavrocordatos, C. E., BMet Sheffield, FIM	Sr. Lectr.
Staz, J., DDS, FRSSAf	Prof.	Timmermann, O. E. B., BSc(Eng) PhD	Sr. Lectr.
<b>Clinical Lectures</b>		Siff, A., MA Cape T.	Lectr.
Shear, M., BDS HDiplDent	Lectr.	Robinson, F. P. A., BSc(Eng) PhD	Lectr.
Viljoen, P. T., BDS HDiplDent	Lectr.	Rowlands, D. F., BSc(Eng)	Jr. Lectr.
Jeffs, B. M., BDS	Lectr.	1 Sr. Lab. Techn.	
Lennox, J., BDS	Lectr.		
Wingum, D. B., BDS	Lectr.		
Van Rensburg, B. G. J., BDS	Temp. Lectr.		
Spruyt, J. L. L., BDS	Temp. Lectr.		
3† Hon. Clin. Lectrs. in Operative, Conservative or Prosthetic Dent., 7 Hon. Clin. Lectrs. in Orthodontics; 7 Dent. Mechanicians			
<b>ENGINEERING</b>			
(see also Archit., above)			
<b>Chemical Engineering</b>			
Volckman, O. H., BSc PhD Lond.	Prof.		
Villet, R. H., BSc Cape T., MSc Prau.	Sr. Lectr.		



**Mining Engineering**

	Chamber of Mines Prof
Edwards, E. P., BSc(Eng) <i>Lead.</i>	Sr. Asst.
Edwards, T., BSc <i>Lead.</i>	Sr. Lectr.
Simmons, T. P.	Sr. Lectr.
Johnston, H. A., BSc(Eng)	Res. Fellow
Sutherland, R. B., MSc <i>McG</i>	Res. Fellow
1 Sr. Lab. Techn	

**Surveying**

Lauf, G. B., DSc(Eng)	Prof.
Freilich, J. G., BSc(Eng)	St. Lectr.
Watt, I. B., BSc(Eng)	Sr. Lectr.
Meyer, O. H. H., <i>Dipling Bst.</i>	Lectr.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.  
see above)

**Anæsthetics**

Nicholson, J. C., MB ChB <i>Maur.</i>	Chief Anæsthetist
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**Diseases of Children**

Heymann, S. C., BSc MB BCh	†Chief Paediatrician
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**Diseases of Children, Surgical**

Trubshaw, W. H. D., FRCS	†Sr. Surgeon
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**Diseases of the Skin**

Gluckman, I.	†Chief Dermatologist
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**Dispensary Practice**

Grant, L., MB BCh <i>Cape T.</i>	Tutor
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**Ear, Nose and Throat, Diseases of**

Kerr, W. A.	†Sr. Aural Surgeon
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**Eye, Diseases of the**

Franks, M., MB BCh DOMS, FRCSed	†Chief Ophthalmologist
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**Forensic Medicine**

Friedman, J., MD BCh DPH	Hon. Prof.
Kemp, V. D., MB BCh	Hon. Sr. Lectr.

**Medicine**

Elliot, G. A., OBE, MD <i>Cape T.</i> , FRCP, FRSaf	Prof., Chief Physician
Gear, J. H., BSc MB BCh DTM&H	Assoc. Prof., Sr. Physician, Sr. Asst. to Prof.
Tonance, J. D., MSc	Lectr.
2 Sr. Lab. Techns.	

**Medicine, Physical**

Loney, A. L., MD BCh DPhysMed	†Chief Specialist
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**Nursing Education**

.....	†Hd. of Sub-Dept.
Teaching in this sub-dept. is also undertaken by staffs of depts of Anat., Chem., Educn., Obstet. & Gynæcol., Pathol., Pharmacol., Physiol., Physiotherapy, Psychol., Surg. and Zool., and by teaching staffs of Johannesburg General Hosp. and Nursing Coll.	

**Obstetrics and Gynæcology**

Heyna, O. S., MA BSc <i>Cape T.</i> , DSc, FRCOG	Prof., Chief Obstetrician & Gynæcologist
Daubenton, F., BSc MB BCh	Sr. Asst. to Prof., St. Obstetrician & Gynæcologist
1 Sr. Lab. Techn.	

**Occupational Therapy**

Loney, A. L., MD BCh DPhysMed	†Hd. of Sub-Dept.
Graves, S. G.	Lectr.
Cynkin, Simma, DipOT	Lectr.
Jack, Beatrice I.	Craft Instr.
2 Instr.†	

**Ophthalmology**

... ..	Prof., Chief Ophthalmologist
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**Orthopædic Surgery**

Edelstein, J. M., MB ChB <i>Edn.</i> , MChOrth <i>Law.</i> , FRCSed	Prof., Chief Orthopædic Surgeon
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**Pathology and Microbiology**

Becker, B. J. P., MD BCh DPH DTM&H (Morbid Anat. & Histopathol.)	Prof., Hd. of Dept.
Stein, H. B., MSc MD BCh DPH DCP (Chem. Pathol.)	Prof.
Murray, J. P., MD ChB DPH <i>St. And.</i> (Clin. Pathol.)	Hon. Prof.
Shuppel, S., MD BCh	Sr. Lectr.
Henn, H. J. R. E., PhD <i>Munich</i>	Sr. Lectr.
Siew, Shuley, MB BCh	Sr. Lectr.
Getz, G. S., BSc MB BCh	Lectr.
Mendelsohn, D., BSc MB BCh	Lectr.
Brudlow, E. A., BSc MB BCh	Lectr.
Abrahams, C., MB BCh	Lectr.
Yodanis, R. E., MB BCh	Lectr.
2 Registrar Pathologists, 3 Sr. Lab. Techns.	

**Pharmacology and Therapeutics**

... ..	Prof.
Ligh, W. E. J., MB BCh	Temp. Sr. Lectr.
1 Temp. Jr. Lectr., 1 Sr. Lab. Techn.	

**Physiotherapy**

Loney, A. L., MD BCh DPhysMed	†Hd. of Sub-Dept.
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Blair, Jean  
Taylor, Mrs. Gwendoline D.  
Hinz, Margaret F. H.  
Kestell, Mrs. Helen B.  
Temp. Jr. Lectr.

Sr. Lectr.  
Lectr.  
Lectr.  
† Lectr.

**Surgery**

Du Plessis, D. J., MB ChB Cape T, ChM,  
FRCS Prof, Chief Surgeon  
a Sr. Lab. Techns.

**Thoracic Surgery**

Fatih, L., MB BS Lond., FRCS  
† Sr. Thoracic Surgeon

**Tropical Medicine**

Gear, J. H. S., DipBact Lond., BSc MB  
BCh DPH DTMAH † Sr. Lectr.

**Urology**

Jordaan, J. C., MB MCh Cape T.  
† Chief Urologist

**Vascular Diseases**

a Second Med. Assts †

**Veneral Diseases**

Sieff, B., MB BCh † Sr. Clin. Lectr.

Teaching in this dept. is also contributed to by staffs of depts of Anat., Chem., Obstet. & Gynaecol., Phys., Physiol., Surg and Zool.

**Plastic Surgery**

Cuthbert, J. B., MA PhD Cape T.,  
MB BS Lond., FRCSed  
† Sr. Plastic Surgeon

**Preventive Medicine**

Hon. Prof  
Brennan, Mrs. Coen A., MB BCh DPH † Lectr

**Psychological Medicine**

Huret, L. A., BA BSc MB BCh PhD Cape T.,  
MD Prof  
6 Lectrs., 4 Clin. Lectrs., 9 Clin. Demos.

**Radiology**

Knye, J., DMR Cape T. Prof., Chief Radiologist

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar: H. van Huysteen, BA Cape T.,  
LLB S.A. Accountant: G. E. S. Burns, Asst.  
Accountant: F. H. Barnett, Public Relations  
Officer: K. Andrew, Chief Clerk: D. A.  
Duggan, BA Prof. Asst. Registrar (Med.): Mrs.  
Edith C. Phillips, Asst. Registrar (Engin.): J. P.  
Everet, BComm. Asst. Registrar (Dent.): V. D.  
Woods, DipNativeAffairs

LIBRARY. Dep. Librarian: I. Isaacson, BA,  
FSALA Asst. Librarian: Maria E. G. Anderson,  
BA BSc, DipLib Lond., FLA; Morris E.  
Framer, BA LibDipl Cape T., FSALA; Mary B.  
Lucas, BA, FSALA; Beth H. Strachan, MA  
SLand

**CONSTITUENT INSTITUTIONS**

BERNARD PRICE INSTITUTE OF GEOPHYSICAL  
RESEARCH, Milner Park, Johannesburg (tel.:  
835-1578). Founded 1936. The inst. is situated  
on the univ. campus and is governed by a bd.  
apptd. by the univ. council. Apart from its own  
activities, the inst. provides teaching for engin.  
students as well as trig. and res. facilities for  
advanced students.

BERNARD PRICE INSTITUTE FOR PALEONTO-  
LOGICAL RESEARCH, Milner Park, Johannesburg  
(tel.: 835-8181). Founded 1949. Dir.—S. H.  
Haughton, BA Cswb, DSc Hon. LLd Cape T.,

FGS, FRSSAF. The inst. is accom. in the univ.  
and is governed by a bd. apptd. by the univ.  
council. Library, museum and res. facilities are  
available for the use of students and visiting res.  
workers.

ERNEST OPPENHEIMER INSTITUTE OF PORTU-  
GUESE STUDIES is housed in the univ. library and  
administered by the univ. Visiting profs are  
brought to the univ. by the inst. which also pro-  
vides a lectr. in Portuguese lang., library facilities  
and study grants.

**ASSOCIATED INSTITUTIONS**

GOVERNMENT MINERALOGICAL LABORATORY,  
Milner Park, Johannesburg (tel.: 835-1181).  
Dir.—R. E. Robinson, PhD.

NATIONAL INSTITUTE FOR TELECOMMUNICATIONS  
RESEARCH, Milner Park, Johannesburg (tel.:  
835-5555). Dir.—F. J. Hewitt, MSc PhD

NATIONAL INSTITUTE FOR PERSONNEL RESEARCH,  
P.O. Box 10319, Johannesburg (tel.: 835-2466).  
Dir.—D. J. Gouws, BA BSc Prof., DPhil Potchef.

RESEARCH UNITS. The univ., jointly with the  
C.S.I.R., participates at the following res. units:  
dental, nutrition, cardio-pulmonary. Res. units

in nucleus phys., solid state phys., mining and in econ. geol. are subvented from outside sources

SOUTH AFRICAN INSTITUTE FOR MEDICAL

RESEARCH, Hospital St., Hillbrow, Johannesburg (tel. 44-2444) Establd. 1912. Dir.—J. H. S. Gear, DipBact Lond., BSc MB BCH DPH DTM&H.

## GENERAL INFORMATION

The Univ. of the Witwatersrand, Johannesburg, has developed out of the South African Sch. of Mines (1896), the Transvaal Technical Inst and the Transvaal Univ. Coll. (1906), the South African Sch. of Mines and Technol. (1910), and the Univ. Coll., Johannesburg (1920). In 1921 Univ. Coll., Johannesburg, was reincorporated as the Univ. of the Witwatersrand, Johannesburg, with effect from March 1, 1922. This devel. was made possible partly by support from the public, amounting in all, up to the end of 1922, to over R440,000. The municipality provided a fine site (50 acres) at Milner Park, a mile from the centre of the town. Expenditure on bldgs. totals R6,213,958. The med. sch. is a separate bldg. in Hospital Hall on a site donated by the govt.

**CONSTITUTION.** The main authorities are the council, in which the govt. and executive authority of the univ. is vested, the senate, which superintends and controls the discipline and instruct. of the several depts., exams., award of degrees, etc.; and the bds of facs., which are cttres. of the senate.

**INCOME** (1961). R2,756,602 (fees, 30 per cent.; govt. grant, 60 per cent.; other grants, interest on investments, etc., 10 per cent.).

**FACULTIES AND DEANS.** *Archit.*, Prof. J. Fassler; *arts*, Prof. M. Valkhoff (romance studies), *comm.*, Prof. C. S. Richards (comm. & appl. econ.); *dent.*, Prof. J. Stess; *engn.*, Prof. G. R. Boxzoll (electr. engin.); *law*, Prof. H. R. Hahlo; *med.*, . . . , *sci.*, Prof. S. P. Jackson (geog.)

**LIBRARIES.** Main library, 315,000 vols., 4250 current periodicals, Witwatersrand med. library, serving the med. sch. and the profession; several deptl. libraries and museums.

**RESEARCH STATIONS.** Univ. field res. stm. situated on the farm Frankenwald, which is owned by the univ.; mainly bot. res. Manns beel. res. stm., situated on Inhaca Island, Mozambique, which is owned by the govt. of Portuguese E. Africa. Uganda gorilla res. unit at Kisoro. Jointly with Univ. Coll. of Rhodesia & Nyasaland: Lake Kariba res. unit.

**TEACHING HOSPITALS.** *Med.*: main teaching hosp.—the Johannesburg H., which includes the General H., Non-European H., Queen Victoria Maternity H., Transvaal Memorial H. for Children; associated teaching hosp.—Baragwanath H., Coenestien H., Tara H., Bridgman Memorial H., St. John Ophthalmic H. *Dent.*: Univ. Oral & Dental H.

**ADMISSION.** See p. 1456.

**FIRST DEGREES.** BA, BSc, BCom, BMus, 3 yrs.

pass (4th yr. for honcs.); BA honcs. may be taken in langs., philos. scs., classics or soc. scs.; BSc honcs. in biochem., chem., geol., phys. or theoret. phys. BALogopedics, BAFineArts, BASocWork, BAPubAdmn., BScPhysiotherapy, BSc(Eng), 4 yrs.; BSc honcs. may be taken, by 1 yr.'s further study after BSc, in anat., appl. maths, bot., geog., maths, psychol., zool.; BSc(QS), 5 yrs.; BA LLB & BCom LLB, 5 yrs. (full-time), BDS, 5 yrs.; MB BCH, BArch, 6 yrs.

**HIGHER DEGREES** (open to grads. of other univs.). BED (1 yr. full-time, a yrs. pt-time course), exam. and dissertation, LLB, 3 yrs., MMed(Path), 4 yrs. Theses. MA, MSc, 1 yr. after honcs., MAClinPsych, 2 yrs. (clin. tg. & dissertation), MArch, MEd, MSc(Eng), LL.M., MD, MCom (exam. and thesis). Theses, with yrs. from 1st degree. ChM, DDS, 3 yrs.; PhD, 4 yrs. (not in med., law, or dent.); DArch, DSc(Beon), LL.D., 7 yrs. Original publication. DLitt, DSc, DSc(Eng), 4 yrs. after 1st degree.

**HONORARY DEGREES.** The degrees of master and doctor in all facs. may be conferred as honorary or as 'earned' degrees.

**DIPLOMAS.** Librarianship, educn. of the deaf, 2 yrs.; native affairs, 2 yrs. pt-time, anesth., child health, pub. health, indust. health, 1 yr.; phys. med., psychol. med., 2 yrs.; radiol. diag., radiotherap., 3 yrs.; trop. med. & hyg., 6 mos.; nursing, 1½ yrs.; occupl. therapy, 3½ yrs.; physiotherapy educn., 1½ yrs.; econ. of local govt. & admin., 2 yrs. pt-time, cert. in theory of accty., 4 yrs. pt-time, law, law (public service), 3 yrs.; higher dipl. in dent., 1 yr.; pub. dent., 1 yr.; orthodontics, 2 yrs. full-time or 3 yrs. pt-time; maxillo-facial surg., 2 yrs.; quant. surv., 5 yrs.; town planning, 3 yrs. pt-time.

**RESEARCH.** All depts. have facilities for post-grad. res., over-all supervision being exercised by the univ. res. cttres. In addn., the univ. administers res. grants made to members of staff by govt.-controlled bodies, chiefly the S.A. Council for Scientific and Indust. Res. and the Natl. Council for Soc. Res., from funds voted by parliament for the purpose. See also 'Constituent Institutions' and 'Assoc. Institutions' (p. 1513) and 'Research Stations' above.

**STUDY LEAVE.** 4 mos.' leave of absence during an academic term may be granted by the council to an officer who has completed 6 yrs.' continuous service. Salary arrangements are: 3 mos. full pay, a mos. half pay, after 6 yrs.' service; 3 mos. full pay, 1 mos. half pay, if taken after 7 yrs.' service; 4 mos. full pay, if taken after 8 yrs.'

service. Sp. leave without salary may be granted by the council for certain purposes, e.g. overseas study.

Fees. BA, R350; BMus, R600; BASocWork, BALogopedics, BAFineArts, BAPubAdm, R760; BA hons, BSc hons, BCom hons, R150 for 1st yr. and R20 for every yr. or portion of yr. thereafter. BSc, R660; MB BCh, R1300; BSc Physiotherapy, R760; DipOccTherapy, R490; BSc(Eng), R880; BCom, R530; cert. in theory of acctg., R340; LLB, R420; BArch, R1104; BSc(QS), R840; DipQS, R740; BDS, R1210.

ACADEMIC YEAR. Feb. to Nov., a terms totaling about 28 wks.

LANGUAGE OF INSTRUCTION. English.

'OPEN' AWARDS FOR FIRST DEGREE COURSES. Numerous state and municipal bursaries.

'OPEN' SCHOLARSHIPS FOR GRADUATES. Ainsworth (mod. hist.), min. R300 p.a. for 1 yr. or R1000 p.a. for overseas study; G. A. Denny (soc. sci.), R500 p.a. for 2 yrs.; Mellor (biochem. & biophys.), R600 p.a. for 1 yr. in first instance.

GRADUATE ASSOCIATIONS. Convocation (all grds.), mining engin. graduates' assocn.; med. graduates' assocn.

STUDENT RESIDENCES. College House and Dalrymple House, Milner Park (tel. 34-4419);

accommod. 150 men, fee R320 p.a. Univ. Residence, Cottesloe, Auckland Park (tel. 31-2836), 150 men, R320 p.a. Isabel Dalrymple House, Milner Park (tel. 835-7830), 150 women, R320 p.a. Douglas Smit House, Milner Park (tel. 835-7698), 30 African students, R320 p.a.

STUDENT HEALTH SERVICES. A students' health insurance soc. exists for all students taking a 1st degree (except MB BCh).

STUDENTS' REPRESENTATIVE COUNCIL. The functions, powers and privileges of the S.R.C. are prescribed in rules made by the council.

PUBLICATIONS. *Calendar* (annual), 50 cents; *Gazette* (twice a year), free; *African Studies* (quarterly), R3 p.a.; *S.A. Journal of Medical Sci.* (quarterly), R2.10 p.a.; *Palaentologia Africana* (annuals of the Paleontological Res. Inst.), *English Studies in Africa* (twice a year), R1 p.a.

WITWATERSRAND UNIVERSITY PRESS. Under control of a publishers. citro, the press publishes work of staff and ex. students and three journals, *African Studies*, *S.A. Journal of Medical Sci.* and *English Studies in Africa* (see above). The prof. of Bantu langs. supervises the first journal and the publishing of books in and on African langs. All printing is done by commercial firms.

## THE YEAR 1961

PRINCIPAL BENEFICIARIES. Advanced Res. Projects Agency (U.S.A.), R105,000 (over 2 yrs.) for Bernard Price Inst. of Geophys. Res. (extended programme of crustal structure res.); Nuffield Foundation, R68,000 (jty with U.C. of Rhodesia & Nyasaland, over 3 yrs.) for Lake Kariba res. project.

NEW DEPARTMENTS AND CHAIRS. Dept. & chair of internat. rels.; dept. & chair of ophthalmol.; dept. & chair of orthop. surg.; chair of physiol. chem.; dept. & chair of radiol.

RESIGNATIONS. Prof. F. H. Hartmann (music); Prof. P. B. Pencock (prev. & soc. med.); Prof. J. E. Scholtens (Roman law).

HONORARY DEGREES. LL.D.—Hon. O. D. Schreiner, retired judge of appeal; C. S. McLennan, dep. chairman & tech. dir. of mining house. MD.—P. P. Fourché, retired orthopedic surgeon. PhD.—D. M. Malenini, lect. in Zulu, retired chief inspector of native educn.

## Statistics

### STUDENT NUMBERS, 1962

	Full-Time	Part-Time*
Men	4346	82
Women	1372	84
Total	5718	166

\* Part-time students are 'occasional' students, extra-mural students being included in the numbers for full-time students, i.e. those registered for a degree, diploma or certificate.

Distribution by Faculties. *Archit.*, 210; *arts*, 1469; *comm.*, 1146; *dent.*, 201; *engn.*, 984; *law*, 183; *med.*, 914; *sci.*, 768. Total: 3884.

Included in the figures above are —

Postgraduate students, 853

New admissions, 2006

Students from other countries, 184. (Country from which largest number came: Fed. of Rhodesia & Nyasaland, 100)

DEGREES AWARDED (1961). *Archit.*: BArch, 29; BSc(QS), 6. *Arts*: BA, 155; BAFineArts, 7; BALogopedics, 8; BASocWork, 13; BA hons, 17; MA, 7; BEd, 5; MEd, 1; PhD, 7; BCom, 36. *Dent.*: BDS, 35; MDS, 2. *Engn.*: BSc(Eng), 109; MSc(Eng), 16; PhD, 2; DSc (Eng), 1. *Law*: LLB, 21. *Med.*: MB BCh, 86; BScPhysiotherapy, 16; MD, 4. *Sci.*: BSc, 92; BSc hons, 45; MSc, 7; PhD, 2; DSc, 1.

### DIPLOMAS AND CERTIFICATES AWARDED (1961)

*Postgrad.*: anesth., 3; med., 2; obstet. & gynaeol., 2; psychol. med., 2; radiol. diag., 4; radiotherapy, 1; dent. (higher), 6; orthodontics, 1; town planning, 3; libr., 2. *Other*: law, 22; archit., 4; quant. surveying, 4; cert. in theory of acctg., 36.

# APPENDIX III

## UNIVERSITY ADMISSION

### QUALIFICATIONS FOR ENTRY TO FIRST DEGREE COURSES:

(A) Australia . . . . .	p. 1516
(B) Canada . . . . .	p. 1526
(C) United Kingdom	
(i) Qualifications needed for admission . . .	p. 1551
(ii) Method of application . . . . .	p. 1594

#### (A) AUSTRALIA

[The statement which follows relates only to the admission of students proposing to take full courses leading to a first degree. For information regarding admission to courses leading to higher degrees, see the entries for the several univs., above.]

#### GENERAL NOTE

The primary and secondary educational systems of the Australian states are the responsibility of the various state govts. Consequently they differ in many respects. However, they are all alike in that they prepare students to the standard necessary for matric. at the univ. or univs. established in their home state. In all cases there is some liaison between the state educat. system and the univ., in that time to ensure that candidates coming forward to the univs. will be able to comply with the matric requirements.

In Australia, each univ. controls its own admission requirements. Thus the Univs. of Adelaide, Melbourne, Monash, New England, New South Wales, Queensland, Sydney, Tasmania and Western Australia, and the Australian National Univ., have individual matric requirements which are specified below.

The Australian National Univ. comprises 2 sections, namely the inst. of advanced studies and the sch. of general studies. The inst. is concerned with postgrad. res. and study and does not conduct courses leading to a first degree. The minimum academic requirement for admission as a student studying for a doctor's degree is a first degree with hon. from a recognized univ., but the inst. needs to be satisfied as to the student's capacity for res. The sch. of general studies is

responsible for courses leading to the degrees of bachelor or master.

The admission requirements of the Australian univs. have the same purpose, being designed to ascertain whether candidates are educationally fitted to undertake courses leading to a first degree. This may be done either at a public exam. open generally to secondary sch. students or at a sp. matric. exam. conducted by the univ. In some cases papers are required in sp. subjs. for entrance to the different facs., in addn to the requirements for matric.

Although the requirements for entrance to the various univs. are not uniform, all possible reciprocity is exercised in the interchange of students, whether from Australian or British univs. In general the univ. will admit to matric. *ad eundem status* a student who has matriculated or qualified to matric. at another univ. of recog. standing, but in some cases passes in particular subjs. at matric. standard, or in compulsory 'pre-requisite' subjs. for particular courses, may be required.

Sp. facilities are offered for matric. in some univs. to persons of mature age who have not had the opportunity of qualifying in the ordinary way and who pass certain sp. entrance tests.

The table opposite shows the public exams. in

each state recog. by the univs. for metric. purposes, except as indicated by \*. The exams. are fully recog. only by the univ. conducting them, though, as mentioned above, qualification by a student for metric. at the univ. of his home

state is generally recog., in so far as standards are concerned, by the other Australian univs.

The average age of entrance upon univ. study is 17 plus in most states, 18 plus in Queensland. Exams. are also conducted in music in each

## PUBLIC EXAMINATIONS IN AUSTRALIA

State	Examination	Secondary School Year in which Examination normally taken	Conducting Body
New South Wales and Australian Capital Territory	*Intermediate Cert. Leaving Cert. Metric ‡Qualifying ‡Qualifying (Deferred)	3rd yr. 5th yr. 5th yr.	N.S.W. Dept. of Educn. N.S.W. Dept. of Educn. Univ. of Sydney N.S.W. Dept. of Tech. Educn. N.S.W. Dept. of Tech. Educn.
Queensland	*Junior Public Senior Public Supplementary Metric	2nd yr. 4th yr.	Queensland Dept. of Educn. Univ. of Queensland Univ. of Queensland
South Australia	*Intermediate Leaving Leaving Hons.	3rd yr. 4th yr. 5th yr.	Univ. of Adelaide Univ. of Adelaide Univ. of Adelaide
Tasmania	*Schools Board Cert. Metric	4th yr. 5th yr.	Schools Bd. of Tasmania Univ. of Tasmania
Victoria	*Intermediate School Leaving Metric	4th yr. 5th yr. 6th yr.	Univ. of Melbourne Univ. of Melbourne Univ. of Melbourne
Western Australia	Junior Cert. Leaving Cert. Metric	3rd yr. 5th yr. 5th yr.	Univ. of Western Australia Univ. of Western Australia Univ. of Western Australia

\* Not recognized by the univs. for metric. purposes.

‡ Not recognized for metric. purposes by Australian National Univ., Univ. of New England, Univ. of New South Wales, Univ. of Sydney

Note.—The age of transfer from primary to secondary sch. varies from state to state, ranging from 12 yrs. in Victoria to 14 yrs. in Queensland

state under the general auspices of the Australian Music Exams. Bd. Passes in appropriate grades at these exams. are accepted as passes at leaving cert. standard and, consequently, for metric

purposes, in most states. In Victoria, however, the exams. are recog. for purposes of inter and leaving cert. exams. but the Univ. of Melbourne conducts its own exams. in metric music.

## SPECIFIC CONDITIONS

## ADELAIDE

The minimum age for metric is 16 yrs.

## South Australian Candidates

In general the requirements for metric. in the Univ. of Adelaide are 5 subjs. taken at the leaving exam. held annually in Nov.-Dec. and chosen from the following groups with certain subjs. specified for the various facs. as follows:

## Group A. Engl.

## Group B

- (i) Latin, Greek, French, German, and such other langs. as may be approved for metric. purposes by the council on the recommendation of the metric. bd.;  
(ii) anc. hist., mod. hist., econ. hist., econ., geog., music.

## Group C

- (i) maths. pt. I, maths. pt. II;

- (ii) phys., chem., geol., bot.,  
physiol., agric. sci.

Group D. Arith., drawing, book-keeping.

(a) To fulfil the educational requirements for matric, a candidate must

- (i) pass in at least 5 subjs. from groups A, B, C and D, above, incl. at least one subj. from each of groups B and C; provided that if either maths. pt. I or maths. pt. II is counted, arith. cannot be counted;
- (ii) include in his 5 subjs. at least one subject from section (i) of either group B or group C;
- (iii) either pass in Engl. lit. as one of the 5 subjs., or satisfy the examiners of his ability to use the lang. as an instrument of expression.

The *qualif.* in Engl. obtained by a candidate who has satisfied the examiners of his ability to use the lang. as an instrument of expression shall not count as a subject.

(b) The attention of intending candidates is drawn to the fact that, although such requirements do not form part of the general requirements for matric., in some 1st-yr. subjs. at the univ. either a pass in the corresp. subject at matric standard as prescribed for admission to the class or a knowledge of the subject at matric. standard is assumed.

Attention is drawn to the following:-

(a) *Lang. other than Engl.* At least one course in Greek, Latin, French or German is compulsory for the ord. BA degree. No candidate may take the course in Greek I, Latin I, French I or German I until he has passed in the corresp. subject at the leaving exam. or at an exam. accepted by the univ. as equivalent.

(b) *Maths.* Courses in maths. are compulsory subjects in the engin. course; further, a 1st-yr. course in maths. will for many candidates be an essential or desirable subj. in certain other courses (e.g. sci.). No candidate may be admitted to a 1st-yr. class in either until he has passed either in leaving maths. pts. I and II or in an exam. accepted by the univ. as equivalent.

(c) *Phys. and Chem.* Although a pass at leaving standard is not a prerequisite for admission to the classes in 1st-yr. phys. and chem., the syllabuses in these subjs. presuppose a knowledge of phys. and chem. at leaving standard.

(d) *Music.* Harmony II is a compulsory subject in the 1st yr. of the course for the MusBac degree, and no candidate will be admitted to the class in that subj. until he has either passed in the theory of music at the 7th grade of the public exams. in music or in a sp. entrance exam. in the theory of music of equivalent standard.

(e) *Law.* A pass in Latin at leaving standard is a prerequisite for entry to the class in Roman law, an optional subj. in the LLB degree course.

(f) *Building Sci.* The syllabus in this subj. presupposes a knowledge of chemistry at leaving standard.

### Candidates from other Australian States

Matric in any other Australian univ. is accepted provided that the subj. and grouping requirements, as prescribed for S. Australian students, are met. A candidate whose *qualif.* for matric in the univ. of his own state do not incl. one or more of the subjs. specified by Adel is required to pass in only the outstanding subj. or subjs.

### Overseas Candidates

(a) *United Kingdom, Canada, Ceylon, New Zealand and South Africa.* *Qualif.* which entitle the holder to matric in the corresp. fac. in any recog. univ. of any country listed above are accepted, provided that the subj. and grouping requirements, as prescribed for S. Australian candidates, are met. The English G.C.E. is accepted on a basis similar to that required by English univs., provided that certain subjs. (other than Engl.) specified at leaving standard by Adel, have been passed at the advanced level.

(b) *Other parts of the British Commonwealth.* The requirements for candidates from other parts of the Commonwealth, esp. from southern and eastern Asian countries, in general conform to those of U.K. univs., so far as standard is concerned, and incl. the specially prescribed subjs. required by Adel of its local candidates.

Candidates from India and Pakistan are required to have passed at a good standard in their own univ.'s inter exam. in arts or sci. and to have incl. in that exam. Engl. and such other subj. or subjs. as may be prescribed for S. Australian candidates.

(c) *Other overseas students.* A candidate may be admitted to matric. who (i) holds a cert. which *qualif.* him for matric. in a recog. European or United States univ., provided that the subjects specified in the Adel. requirements are included and provided also that the cert. contains at least one mod. lang. and lit., (ii) in the case of a candidate whose native lang. is not Engl., has passed in a standard Engl. test, and (iii) has passed in the prescribed pre-requisites as follows:-

*Sci. and engin.* (and for admission to the class in 1st-yr. maths.). Either maths. I and II at the S. Australian leaving exam. or (in approved cases only) a sp. exam. in maths. of equivalent standard.

A candidate who is unable to present acceptable evidence of matric. work done elsewhere must pass in appropriate subjects at the S. Australian leaving exam.

### Mature Age

No provision is made for modification on account of age of the normal requirements for matric.

### Special Cases

The matric. bd. may consider applns. from candidates who have *qualif.* in secondary educn. but have not satisfied the normal requirements for

matric. The bd. usually does not exempt such a candidate from the specified entrance requirements, but it may admit him for 1 yr. under conditions which it specifies and which must be fulfilled within 1 yr.

#### *Last Date for Receipt of Applications*

The last day of enrolment for local candidates is determined annually, and is usually early in Feb. Late enrolments may be accepted on payment of a late-enrolment fee. The last day of application for admission by overseas candidates is Sept. 1 of the preceding yr. In fact in which there are quotas this date is rigidly applied.

### AUSTRALIAN NATIONAL UNIVERSITY

#### *School of General Studies*

##### *Special Requirements for Admission*

There is no min. age for admission to the sch. of general studies. There are no sp. fac. requirements.

##### *Candidates from N.S.W. and the A.C.T.*

A person is eligible to be admitted to matric. if he has, at the one exam., passed the N.S.W. Leaving Cert. exam. or the Univ. of Sydney matric. exam. in Engl., a branch of maths. or a foreign lang.; and 3 other approved subj.

##### *Candidates from other Australian States*

A person qualified to matriculate in another Australian univ. will normally be admitted to matric. status.

##### *Overseas Students*

The matric. qualifs. of certain overseas instns are accepted as grounds for admitting students to matric. status. However, a person whose native lang. is other than Engl. may be required to show that he has an adequate knowledge of the Engl. lang. by passing a standard Engl. test while still resident in the overseas country.

##### *Provisional Matriculation*

A person who is at least 25 by Dec. 31 in the yr. preceding that in which he proposes to enrol may be admitted to provisional matric. providing he can satisfy the matric. cttee that he has a reasonable prospect of success in the course for which he proposes to enrol. A person so admitted will be fully matriculated and permitted to sign the matric. roll after having: (i) as a full-time student passed in 2 units by the end of the 1st yr.; (ii) as a pt.-time student passed in 2 units by the end of the 2nd yr. A person who fails to satisfy this requirement will have his provisional matric. cancelled and will not be eligible for readmission.

#### *Last Date for Receipt of Applications*

Applications for admission will usually be received up to Jan. 18 in the year in which admission is

sought, but overseas students must apply before Nov. 1 in the preceding year.

### MELBOURNE

#### *General Requirements*

In order to become qualified to matric., candidates must (a) obtain the Melbourne Sch. Leaving Cert. and be credited therein with 5 subj. incl. (i) Engl., (ii) a branch of maths. or sci., (iii) one other subj. chosen from langs. other than Engl., Greek and Roman hist., mod. hist., British hist., econ., soc. studies, (d) pass the matric. exam. by passing or obtaining honrs. in 4 subj., incl. Engl. expression, (c) attain the age of 17 yrs. by March 31 in the yr. concerned.

#### *Special Faculty Requirements*

In addition to qualifying to matric. for the following facs the prerequisites set out below must have been passed at a standard equivalent to that of the Melb. matric. exam.:

- Arts* A lang. other than Engl.
- Med.* Chem. and either phys. or a branch of maths. It is necessary to pass the Melb. matric. exam. incl. the prerequisites at not more than 2 attempts.
- Agric. sci.* Either phys. or chem.
- Engt. sci.* Chem. and either phys. or a branch of maths.
- Muse.* Muse. (theoretical) and muse. (practical).

For admission to most facs it is necessary to be selected primarily on the basis of academic merit at the Melb. matric. exam.

#### *Overseas Students*

The matric. qualifs. of the following instns are accepted as grounds for admitting overseas students to matric. status without further requirements (although they may have to make up the fac. prerequisites at the Melb. matric. exam.).

- Canada* St. matric.
- Ceylon* Matric. of the Univ. of Ceylon.
- Egypt* Secondary Educn. Cert. pt. II (sp. course) of the Egyptian Ministry of Educn.
- Continental Europe* Cert. of maturity or equivalent cert. qualifying student to enter a continental univ.
- Republic of Ireland* Matric. of Trinity Coll., Dub., or N.U.I.
- United Kingdom* Matric. of any English or Scottish univ., or Univ. of Wales, or Queen's Univ., Belfast.
- Greece* Matric. of Univ. of Athens and Salonika.
- Holland* (i) Leaving cert. from 'gymnasium' after 6-yr. course, (ii) Dipl. of H.B.S. (iii) Cert. of completion of 6-yr. course at 'lyceum'.
- Hong Kong* Matric. of Univ. of Hong Kong.
- India* Pass in the 1st division of inter. sci. or int. exam.—prerequisites, if involved, to be at inter. standard.



*Israel.* Qualif. to enter either Hebrew Univ., Jerusalem or Hebrew Tech. Inst., Haifa.

*Malaya.* Univ. of Malaya matric.

*Pakistan.* Pass in the 1st division of inter exam in sci. or arts—prerequisites, if involved, to be at inter standard.

*South Africa.* Matric of Jt Matric Bd. of Univs of S.A.

*Syria.* Matric of American Univ. of Beirut.

*Thailand.* Completion of 1st yr in Univ of Chulalongkorn.

*U.S.A.* Qualif. to enter a univ. accredited with the Assocn. of American Univs.

#### Other Australian Institutions

Persons qualified to matric in another Australian univ. will be admitted to matric status, but will be required to satisfy sp. fac. requirements either at the Melb. matric. exam. or at an equivalent standard.

Provision is made for the recog. of qualifs. gained at certain Australian service establs., and at certain Victorian tech. colls.

#### Adult Matriculation

Sp. provision is made for persons who are at least 20 yrs. of age and have left sch. 4 full yrs. These provisions apply to local students only.

#### Last Date for Receipt of Applications

All applicants for admission, including applicants for admission of students status, must be lodged before Nov. 30 in the preceding yr.

### MONASH

In order to matric., students must (a) be 17 yrs. of age by March 31 in the yr. of entry; (b) have passed the Victoria Sch. Leaving exam. in 3 subjs. incl. (i) Engl., (ii) a branch of maths or sci. and (iii) a lang. or one of the following—Greek & Roman hist., mod. hist., British hist., econ., soc. studies; and (c) passed the matric exam. of Melbourne Univ. in 4 subjs. incl. Engl. expression.

There are no special fac. prerequisites, though for students in some depts. a knowledge to matric. level of subjs. taught in those depts. is assumed.

The univ. may admit to matric. those who have qualified for matric. elsewhere. Each appln. is considered on its merits.

#### Last Date for Receipt of Applications

Applicns. for admission to undergrad. courses must be lodged before Nov. 30 in the preceding yr., except in the case of applicants resident overseas and relying on overseas qualifs., who must lodge applicns. by Nov. 1 in the preceding yr.

\* Maths I or maths II may be counted as a matric. subj. only if the candidate presented himself for exam. in both maths I and maths II.

† Candidates who have not met requirements under (a) or (b) but who have meritorious passes may be considered for sp. matric.

### NEW ENGLAND

There is no min. age for admission.

#### Ordinary Matriculation

1. All candidates for ordinary matric. shall be required to pass at the N.S.W. Leaving Cert. exam. or at the matric exam. of the Univ. of Sydney in approved subjs. grouped as below

Group A. Engl.

Group B. (i) Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch

(ii) Geog., econ., anc. hist., mod. hist.

Group C. (i) \*Maths. I, maths. II, maths. III, gen. maths.

(ii) Agric., appl. maths., biol., bot., chem., geol., phys., phys.-and-chem., physiol., zool.

Group D. Music, theory & practice of music, etc.

2. To qualify for matric. a candidate shall either pass:

(a) in at least 5 approved subjs. of which one shall be Engl., one shall be chosen from each of the groups B and C, and of these 2 subjs., one shall be chosen from section (i) of either group B or C; or

(b) in at least 5 approved subjs. of which one shall be Engl. and one shall be chosen from section (i) of either group B or C provided that the passes include one with hon. and a 'A' pass, or 2 with hon.s.

3. The following combinations of subjs. are not approved: phys. or chem. with phys.-and-chem.; bot. or zool. with biol.; zool. or biol. with physiol.; maths. I, maths. II or maths. III with gen. maths., maths. I or maths. II with maths. III; music with theory & practice of music.

4. All subjs. must be passed at one exam. except that a candidate for ordinary matric. who presents himself for the Leaving Cert. exam. in 1960, or in a subsequent yr., in 5 or 6 subjs. chosen in accordance with the requirements of regns. 1, 2 and 3 and who passes in any 4 of these subjs. shall be granted ordinary matric. status if:

(a) he is awarded passes classified as 'A' standard or passes with hon. in at least 2 of these 4 subjs., and

(b) he passes at the matric exam. of the Univ. of Sydney in the following yr. in at least one addtl. subj. in which he had presented himself at the preceding Leaving Cert. exam., and

(c) the 5 passes thus obtained satisfy the requirements of regns. 1, 2 and 3.

5. These regns. shall not affect the right any person had under any matric. regn. in force before July 1, 1960.

*Special Matriculation*

Sp. matric. may be granted to persons who, while not meeting in full the ord. requirements of this univ., possess exam. qualifs. considered to be of equivalent status. Such persons shall incl. the following:

- (a) Any person who has completed the 1st yr of a course at the Royal Military Coll. of Australia or the Royal Australian Air Force Coll.
- (b) Any person who has completed satisfactorily the passing-out exam. of the Royal Australian Naval Coll.
- (c) Diplomates of the Hawkesbury or Wagga Agric. Colls. who have obtained hon. or persons with similar qualifs. which are deemed by the professional bd. to be equivalent.
- (d) A person who has completed stage II of a course in accountancy, aeronautical engin., appl. biol., appl. chem., archit., bldg., chem. engin., civil engin., electr. engin., food technol., leather chem., management, mech. engin., metallurgy, metalliferous mining engin., minerals technol., naval archit., optometry, phys., production engin., pub. admin., quantity surveying, radio engin., or manual arts leading to award of associatehip of Sydney Tech. Coll. (ASTC).  
(Note.—A person who has successfully completed stage I may apply for consideration for a grant of sp. matric status.)
- (e) Persons with war service, having educat. qualifs. approved by the bd. of studies.
- (f) A person who is qualified to matric. in one of the following univs: Adelaide, Australian National, Melbourne, Monash, Queensland, Tasmania, Western Australia, or a univ. in the U.K. or N.Z., who at the time of qualifying was not normally resident in N.S.W.
- (g) Persons of foreign nationality and educn. who are deemed by the professional bd. to be capable of undertaking a degree course at this univ. with reasonable prospects of success.
- (h) A grad. of any univ.

*Provisional Matriculation*

The professional bd. may grant provisional matric. to a person, of not less than 21 yrs. of age on March 1 of the yr. in which he intends to enrol, who:

- (a) satisfies the professional bd. that he has reasonable prospects of success at the univ., or
- (b) passes such exams. as the bd. may prescribe.

A person granted provisional matric. shall be granted sp. matric. when he has fulfilled the following requirements:

- (a) if a full-time student, to pass 2 courses by the end of the 1st academic yr. (incl. deferred and sp. exams. where granted) an

which he is eligible to enrol after the granting of his provisional status;

- (b) if a pt.-time student, to pass 2 courses by the end of the 2nd academic yr. (incl. deferred and sp. exams. where granted) in which he is eligible to enrol after the granting of his provisional status.

A person granted sp. matric. in this way may continue the courses passed as a provisionally matriculated student for degree purposes provided such courses otherwise satisfy the requirements of the fac. in which he is enrolled.

A person who has not fulfilled these requirements and who fails to satisfy the professional bd. that there are sp. reasons for extending the period of his provisional matric. status shall have that status withdrawn and may not count for degree purposes any course passed during that period of provisional matric.

*Last Date for Receipt of Applications*

For admission to 1st degree courses: Nov. 1 for students living overseas, Jan. 31 for other students.

**NEW SOUTH WALES**

There is no minimum age limit for admission to the univ.

In order to be admitted to undergrad. studies candidates must matriculate either at the Leaving Cert. exam. held by the N.S.W. Dept. of Educn., or at the Univ. of Sydney's Matric. exam.

The univ.'s new matric. requirements, which took effect from Jan. 1, 1961, are intended to indicate individual general ability and standard of educn., rather than specialised interest. Concurrently, until March 1964, candidates may gain entrance under the 1960 requirements (see *Commonwealth Universities Yearbook, 1961*).

*Matriculation Requirements*

Approved matric. subj. are grouped as follows:

- A. Engl.
- B. Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch, geog., and hist., mod. hist., econ.
- C. Maths I, maths. II, maths. III.
- D. Agric., appl. maths., biol., bot., chem., phys., geol., phys. & chem., physiol., sociol., gen. maths.
- E. Accountancy, art, descriptive geom. & drawing, music, theory & practice of music.

At the one exam. candidates must pass in at least 5 subj. provided that

- either (a) the 5 subj. include Engl. and at least 1 subj. from each of groups B and C, but do not include more than 2 subj. from group E, except that candidates may qualify for admission to the fac. of arts only, by passing in 2 subj.

- from group D in lieu of the subj. from group C,  
 or (d) the 5 subjs. include Engl., and at least 1 subj. from either group B or group C, but do not include more than 1 subj. from group B, and provided further that the 5 passes include either one 1st class hon. and 2 'A's or 2 hon. of which 1 is 1st class,

and further provided that :

- (a) neither phys. nor chem. is offered with the combined subj. phys. & chem. ;
- (b) neither bot. nor zool. is offered with bot. ;
- (c) neither bot. nor zool. nor bot. is offered with physiol. ;
- (d) neither maths. I nor maths. II nor maths. III is offered with gen. maths. ;
- (e) neither maths. I nor maths. II is offered with maths. III ;
- (f) maths. I or maths. II may be counted as an approved subj. only if the candidate presented himself for exam. in both maths. I and maths. II ;
- (g) theory & practice of music is accepted only in cases where the pass was obtained at an exam. in 1946 or subsequent yrs. ;
- (h) anc. hist. is accepted only in cases where the pass was obtained at an exam. held in 1945 or subsequent yrs. , and further both mod. hist. and anc. hist. may be offered as qualifying subjs. at the exams held at the end of 1941 and subsequent yrs. ;
- (i) agric. is accepted only in cases where the pass was obtained at an exam. held in 1945 or subsequent yrs. ;
- (j) econ. is accepted only in cases where the pass was obtained at an exam. held in 1947 or subsequent yrs. ;
- (k) descriptive geom. & drawing is accepted only in cases where the pass was obtained at an exam. held in 1954 or subsequent yrs.

#### Accreditation

In certain circumstances persons may qualify as matriculated students if they are diplomates of the N.S.W. Dept. of Tech. Educn. or of other recognized tech. colls., grads. of approved univs. or certificated students who have gained matric. at univs. that demand entrance qualifs. comparable with those needed to enter the Univ. of New South Wales. Candidates may also be accredited if they have completed the 1st yr. of the course at the Royal Military Coll. of Australia or the Royal Australian Air Force Coll. or if they have completed the passing out exam. of the Royal Australian Naval Coll.

#### Provisional Matriculation

In special cases persons educated in other countries may be granted the status of 'provisionally matriculated student' until they gain full status by completing univ. requirements. Adults who are over 25 yrs. of age may also be granted this

status if they have been educated to a suitable standard. However, any applicant for provisional status may be asked to appear for exam.

#### Last Date for Receipt of Applications

Candidates from New South Wales must lodge applications for admission by Jan. 31 of the yr. in which admission is sought. Overseas and interstate students should apply by Dec. 31 in the preceding yr.

### QUEENSLAND

#### General Requirements

The min. age for admission of matriculated or non-matriculated students is 16 yrs. For the dipl. in physiotherapy course, a candidate must have attained the age of 17 yrs. on or before June 30 of the year in which he enters the course.

A candidate for matric. in any fac. must pass exams. in the subjs. specified for that fac. at the Jr. Public exam. or the Sr. Public exam., as prescribed. The subjs. may be passed at the Sr. or Jr. Public exams. held annually in Nov.-Dec. or at the supplementary matric. exam. held annually in Jan.-Feb. At the supplementary matric. exam., subjs. may be taken at sr. or at jr. standard. Passes in required subjs. obtained at other exams., held within or outside Queensland, will be accepted if, in the opinion of the dean of the fac. concerned, they are equivalent to passes at the required standard.

A candidate may pass the subjs. prescribed for any fac. at more than 1 sitting, but he must sit 1 of the sittings pass at sr. standard in at least 4 matric. subjs. whether or not prescribed for that fac. A sitting in Nov. and a sitting in the following Jan.-Feb. will be classed as 2 sittings. A candidate will not be allowed to sit for the supplementary exams. unless he passes in 4 matric. subjs. in Nov. and in any case he will not be permitted to sit for more than 2 sr. subjs.

If a candidate satisfies the registrar of the univ. that he is not attending a secondary sch. and that (a) there is no secondary sch. near enough to his home for him to be reasonably expected to attend it as a day pupil, or (b) he is in full-time employment, or (c) he suffers from physical disability preventing attendance as a day pupil at a secondary sch., he may pass the subjs. prescribed for any fac. at more than one sitting, but shall not be given credit for a pass in one prescribed subj. only at any sitting unless it is the last subj. to be passed by him and must obtain credit for 4 passes in prescribed subjs. within 3 successive academic yrs., and where 5 subjs. are prescribed for 5 such passes within 4 successive academic yrs.

If a candidate has qualified for matric. in another Australian univ. he may be admitted to such matric. in this univ.

A person who has matriculated in a fac. at a United Kingdom univ. and has completed 1 yr. of a degree course in that univ. is not required to pass any further exams. for a corresponding

matric in this univ. In any other case where a candidate for matric has pursued a course at this or any other univ., the fac. concerned may exempt him from such of the exam. requirements for matric in that fac. as it thinks fit.

The following subsj. are available for matric. purposes: Latin, Greek, Engl., French, German, music or art, maths I, maths II, chem., phys., bot., zool., Italian, mod. hist., anc. hist., logic, econ., geol., physiol., geog., bookkeeping & accounts, geometrical drawing & perspective, elementary surveying & astron.

### Special Faculty Requirements

**Arts.** A candidate is required to pass at sr. standard in at least 4 subsj. covering 4 of the following groups of subsj.: (a) Engl., (b) French, German, Greek, Latin; (c) maths. I, maths. II, (d) bot., chem., geol., phys., physiol., zool.; (e) mod. hist., anc. hist., geog. The 4 subsj. must incl. Engl. and a subsj. from group (b), the other 2 subsj. being selected from any 2 of groups (c), (d) and (e).

**Note.**—The above requirements are min. requirements, and a student intending to pursue an arts course would benefit by taking more than 4 subsj., either to lead up to subsj. he intends to take at the univ., or to give him the advantage of a wider background of general knowledge.

**Sci. (incl. pharmacy).** A candidate is required to pass at sr. standard in 4 subsj. incl. Engl., maths. I and a sci. subsj., and in so far as chem., phys. and a lang. other than Engl. are not incl. in the 4 subsj., must pass or have passed them at not less than jr. standard.

A person desiring to pursue the course in indust. chem. must pass at sr. standard in both chem. and phys., and otherwise fulfil the requirements set out above.

**Engn.** A candidate must pass at sr. standard in Engl., maths. I, maths. II, phys. and chem.

A lang. other than Engl. must be passed at not less than jr. standard.

**Note.**—The matric exam. for the fac. of engin. is recog. by the Engin. Jr. Exam. Bd., London, as qualifying in lieu of then prelim. exam.

**Surveying.** A candidate must pass at sr. standard in Engl., maths. I, phys. and 2 other subsj.

**Conen. and econ.** (1) A candidate must (i) pass at sr. standard in Engl. and maths. I; and (ii) either (a) pass at sr. standard in 3 of the following subsj.: anc. hist., bookkeeping, bot., chem., econ., French, geog., geol., German, Greek, Italian, Latin, maths. II, mod. hist., phys., physiol., zool., or (b) pass in all the subsj. required for the cert. in accty. or the dipl. in pub. admin., or obtain, in 1956 or later, the dipl. of the Queensland Agric. High Sch. & Coll., Lawes.

(2) A candidate who has qualified for the dipl. in comm. may matric. in the fac. of comm. and econ. before the commencement of the academic

yr. 1964 if he has passed in maths. I at sr. standard, or in 2 other maths., or in the univ. subsj. statistics, but may not be a candidate for the degree of bachelor of econ. unless he has passed in maths. I at sr. standard.

**Agric.** A candidate is required to pass in 4 sr. subsj., incl. Engl., maths. I and a sci. subsj.

If chem., phys., and a lang. other than Engl. be not passed at sr. standard, these subsj. must be passed or have been passed at jr. standard in addn. to 4 sr. subsj.

A student of the Queensland Agric. High Sch. & Coll., Lawes, may matric. if he has been awarded the pass dipl. of the coll. under the 3-yr. curriculum.

Students who have matriculated in the fac. of agric. are regarded as having also satisfied the requirements for matric. in forestry.

**Law.** The requirements are the same as for the fac. of arts. A barrister or solicitor of the supreme court of Queensland is exempt from these requirements.

**Dent.** A candidate shall pass in 4 subsj., at sr. standard incl. Engl., maths. I, and at least one of the 2 subsj. chem. and phys. If chem. and phys. are not both passed at sr. standard the one not passed at sr. standard shall be passed at jr. standard. Zool., although not compulsory for matric., is recommended as an extra subsj.

**Vet. sci.** The matric. requirements are the same as those for the fac. of agric.

**Med.** A candidate is required to pass in 5 sr. subsj., incl. Engl., maths. I, chem., and phys. German, French or Latin must be passed or have been passed at not less than jr. standard.

A person who has qualified for the dipl. in physiotherapy or the dipl. in occupational therapy may without fulfilling any further requirements be admitted to matric. for the purpose only of qualifying for the degree of bachelor of physiotherapy.

**Education.** A candidate must either (i) fulfil the requirements for matric. in the fac. of arts or the fac. of comm.; or (ii) pass at sr. standard in Engl. and in 4 other subsj., selected from the following groups of subsj. and covering at least 2 of the groups: (a) mod. hist., anc. hist., geog., econ., music; (b) Latin, Greek, French, German, Italian; (c) maths. I, maths. II, (d) chem., phys., bot., zool., physiol., geol. A person who has qualified for the dipl. in soc. studies may matric. in the fac. of educn. without further exam.

**Archit.** A candidate is required to pass at sr. standard in (a) Engl., maths. I and phys. (b) 2 other subsj. If the subsj. fulfilling the requirement of para. (b) do not incl. art (pts. A and B) or geometrical drawing & perspective, a pass in pt. A of art will also be required. If the subsj. fulfilling the requirement of para. (b) do not incl. chem., a pass in chem. at jr. standard will also be required.

### Adult Matriculation

A candidate who is normally resident in Australia or in the territory of Papua & New Guinea

and who has attained the age of 23 yrs may be admitted to matric in the several facs on passing a sp exam. The candidate may, if he so chooses, matric under the ordinary regim. There is no provision for adult matric in the fac of med.

#### *Last Date for Receipt of Applications*

Applica. for admission may be received up to Jan. 18 of the yr. in which admission is sought. Applica. from overseas students should be made by Nov. 1 in the preceding yr.

### SYDNEY

There is a min. age limit for admission only in the fac of law where candidates for admission must be 17 yrs of age by the 1st day of lectures.

#### *Matriculation and Admission*

Candidates for any of the degrees granted by the Univ. of Sydney will be required to matric. and to be selected in the quota before entering upon the prescribed course for the degree. Before being admitted to matric., candidates must have passed one of the exams. required by the by-laws for admission to the prescribed courses in the different facs., or must have been admitted on *evident status*.

#### *Matriculation Examination*

The exam. will be in the following subj.:—

Group A. Engl.

Group B. (i) Latin, Greek, French, German, Italian, Hebrew.

(ii) Anc. hist., mod. hist., geog., Chinese, Japanese, Russian, Dutch or such other lang. as shall be approved by the professorial bd.

Group C. (i) Maths. I, maths. II, maths. III, gen. maths.

(ii) Appl. maths., phys., chem., geol., phys.-&-chem., bot., biol., agric.

Group D. Econ., music, theory & practice of music.

In order to qualify for matric., candidates must pass at one exam. in at least 3 subj., of which one must be Engl., one must be chosen from each of group B and group C, and of these 2 subj., at least one must be chosen from section (i) of either group B or group C. The remaining subj. may be chosen from one or more of the groups B, C and D, provided that:

- (a) neither phys. nor chem. may be taken along with the combined subj. phys.-&-chem.;
- (b) bot. may not be taken with biol.;
- (c) maths. III may not be taken with gen. maths. and neither maths. I nor maths. II may be taken with either maths. III or gen. maths.;
- (d) a candidate who offers maths. and elects to take either maths. III or gen. maths. may

not sit for maths. I or maths. II; a candidate who offers maths. and does not elect to take maths. III or gen. maths. must take both maths. I and maths. II, a pass in either maths. I or maths. II will count as a pass in one subj., passes in both papers will count as passes in 2 subj.;

- (e) music is accepted for matric. only where the pass was obtained at an exam. held after July 1, 1958, and provided that it is not taken with theory & practice of music.

There are no sp. requirements for matric. in any fac.

These requirements shall not affect the right which any person would have had, because of a qualif. obtained before March 1, 1963, to matric. or to matric. into any particular fac. Persons who passed an exam. approved for matric. before March 1, 1963, should check their qualifs. with the registrar.

#### *Leaving Certificate Examination*

A candidate who has passed at the Leaving Cert. exam. of the Dept. of Educ., N.S.W., in the subj. and at the standards (an hon., an 'A' or a 'B' pass) required for matric., may be admitted to matric. without further exam.

A candidate for matric. who has presented himself for the Leaving Cert. exam. held in 1959 and subsequent yrs in 5 or 6 subj. selected in accordance with the above requirements, and who has passed in Engl. and 3 other of these subj., shall be granted matric. status provided that he has been awarded 'A' passes or passes with hon. in at least 3 of these 4 subj. or is awarded passes with hon. in at least 2 of these 4 subj.

#### *General*

Any person who produces evidence that he has completed (a) the 1st yr. of the course at the Royal Military Coll. of Australia, or (b) the passing out exam. of the Royal Australian Naval Coll., or (c) the 1st yr. of the course at the Royal Australian Air Force Coll., may be admitted to matric. without further exam.

Holders of the dipl. with hon. of an approved agric. coll. or holders of a dipl. with hon. or credit of an approved tech. coll. may be admitted to matric.

Persons of foreign nationality and educn. may be admitted to matric. by a sp. exam. if they give evidence that satisfies a three-fourths majority of the fac. of scs. and of the professorial bd. that they are of good fame and character, and personally and educationally qualified for entrance to the univ.

#### *Provisional Matriculation*

Provisional matric. may be granted to any person of not less than 25 yrs of age who produces satisfactory evidence that he is of educn. merit and who passes such exams. as may be prescribed.

Provisional matric. granted to a person under these conditions shall be confirmed when he has fulfilled such requirements as the professorial bd. shall determine. Applicants for provisional matric. must be lodged by Nov. 1.

#### *Admission of exonerated status*

The professorial bd. may admit as a matriculated student in any fac, with such status as the hd. thinks proper in the circumstances, a person.

(a) who is a grad. of any other univ., or  
(b) who presents a cert. from an approved univ. showing that he is qualified for matric. and entrance to that univ. and setting out the grounds of that qualif., provided that, in the opinion of the bd., there is a reasonable correspondence between the qualifying conditions relied on by the applicant and the conditions laid down for ordinary entrance to the Univ. of Sydney.

An applicant shall not be admitted unless he gives evidence of his degree or status and of good conduct.

Before being admitted to matric., foreign students are required to show that they have an adequate knowledge of the Engl. lang.

Admission under this section is restricted to persons who are born in the United Kingdom or New South Wales. Applicants for matric. under this section must be lodged by Nov. 1 of the yr. prior to that in which admission is desired.

#### *Restricted Admission*

From 1963 admission to all the facs and courses will be restricted to those who are selected within a quota. Selection will normally be made on the basis of the best 5 matric. subj. papers taken at the N.S.W. Leaving Cert. exam. Applicants for enrolment must be lodged by students by the last Friday in Jan.

### TASMANIA

#### *General Requirements*

From 1962, the only Tasmanian exam. recognized for matric. purposes is the matric. exam. conducted by the univ. Students are required to pass 5 subjs., incl. (a) 2 from French, German, Latin, Greek, Engl. lit., mod. hist., soc. hist., geog.; (b) 1 from maths. A, maths. B, phys., chem., biol., geol. Either a foreign lang. or 2 maths. must be included. Of the 5 subjs., 3 must be passed at advanced level and 2 at ordinary level. The 5 subjs. must be passed in not more than 4 sittings, exams. in Dec. and the following Feb. counting as 1 sitting.

The normal min. age for admission to matric. is 17 yrs. but students under this age may be admitted if considered by the professorial bd. to be of exceptional ability. Persons over the age of 23 yrs. may be admitted to matric. without having completed in full with the ordinary requirements.

#### *Prerequisites*

There are no fac. prerequisites as such, but the following prerequisites for specific subjs. are required:

*Foreign lang.* An advanced level pass in the corresp. matric. subj.

*Maths.* An advanced level pass in matric. maths. A.

*Phys. A.* Advanced level passes in maths. A and phys.

*Phys. B.* Ordinary level pass in phys.

*Chem.* Ordinary level pass in chem.

#### *Exempting Examinations*

The univ. will admit to matric. students who are qualified for admission to other Australian univs., to univs. in the United Kingdom or New Zealand, and (subject to proficiency in Engl.) to other univs. of standing throughout the world. Students who gain partial qualifs. elsewhere may be awarded matric. on passing such subjs. of the matric. exam. as may be prescribed by the professorial bd.

#### *Last Date for Receipt of Applications*

The last date for receipt of applns. for admission is Feb. 15 for all students.

### WESTERN AUSTRALIA

#### *General Qualifications for Matriculation*

The min. age for admission is 17 yrs. The normal method of satisfying min. entrance requirements is by means of a qualifying exam. in which candidates must pass in Engl. and 4 other prescribed subjs. The qualifying exams. incl. the Western Australian Leaving Cert. exam. held annually in Nov. and the matric. exam. conducted by the Univ. of W. Aust. in Feb. each yr. Admission to the matric. exam. is restricted to persons who seek to complete matric. requirements.

There are no sp. requirements for entrance to any fac.

(1) The subjs. for matric. are (i) Engl.; (ii) French, German, Greek, Hebrew, Italian, Latin, Spanish, or any other lang. approved from time to time by the bd.; (iii) geog.; (iv) maths. A, maths. B, music; (v) biol., chem., geol., phys.

(2) Subject to section (3) (below), in order to matric., candidates must at 1 exam. pass in Engl. and in not less than 4 other subjs. chosen from at least 3 of the groups (ii), (iii), (iv) and (v) above. For the purposes of this section the Leaving Cert. exam. and the following matric. exam. shall be counted as 1 exam., provided that only candidates who have passed in not less than 4 prescribed subjs. at the Leaving Cert. exam. shall be permitted to complete the matric. requirements at the following matric. exam.

(3) Candidates may matric. by passing at not

more than a exam. in the appropriate number of subjs. required by section (2) hereof if they have left sch. before the commencement of the yr. in which the first of such exams is taken and have since that time been gainfully employed. For the purposes of this section the Leaving Cert exam and the matric exam. shall be regarded as separate exams.

#### *Special Exemptions*

Students over the age of 21 may be admitted without passing the normal matric. exam. In the facs of arts, econ. and educn a sp. mature age exam. is held, while in the other facs. students are required to provide satisfactory evidence that they possess educn. qualifs. sufficient to enable them to take the proposed course.

#### *Candidates from outside Western Australia*

(i) Students from Australia, N.Z. and the United Kingdom. Matric. status is granted to

students qualified for matric. in any other univ. in Australia, N.Z. or the U.K.

(ii) Students from other parts of the British Commonwealth and certain Asian countries where U.K. exams are taken. Each applicant is considered on its merits. Applicants are expected to have a sufficient knowledge of Engl. lang. and to have reached a standard of educn. equivalent to that required for matric. in a univ. in the U.K. (e.g. Univ. of Lond.)

(iii) Other overseas students. Students from other countries who have qualified for matric. in approved univs. may be granted matric. status. Each applicant is considered on its merits and applicants must have a sufficient knowledge of the Engl. lang.

#### *Last Date for Receipt of Applications*

In 1963, first admission enrolments close on Feb. 6.

## (B) CANADA

(Contributed by Dr. R. P. Sheffield, Research Officer, Canadian Universities Foundation)

[The statement which follows relates only to the admission of students entering at the conclusion of secondary school studies and proposing to take full courses leading to a first degree. For information regarding admission at higher levels and to courses leading to higher degrees, see the entries for the several univs., above.]

### GENERAL NOTE

The public elementary and secondary schools of Canada are under provincial jurisdiction: each province has its own curriculum and awards its own certs. of completion of secondary school studies. Except in French Canada (*see below*), private schools are relatively few, enrol less than 5 per cent. of the elementary and secondary school population, and usually follow the public school curriculum of the province in which they are located. Courses of study which prepare for entry to univ. are of 11 to 13 yrs' duration. Secondary school graduation certs. are at two levels, one generally referred to as the *junior matriculation level* (after the 11th or 12th grade or year of schooling), and the other, involving an addnl. year of study, as the *senior matriculation level* (after the 12th or 13th grade or year of schooling).

Some univs. admit at the jr. matric. level, some at the sr. Some admit at both levels, allowing credit for one yr. of univ. studies on the basis of certs. at the sr. matric. level. Each univ. couches its entrance requirements in terms of the certs. awarded in its own province but all treat certs. of other provinces as if they were approx. equivalent to their own, differentiating only between jr. and sr. levels.

Most exams. marking the completion of high

school (secondary) studies are set and marked by the dept. of educn. of the province concerned. Three of the four Atlantic provinces (Newfoundland, Prince Edward Island and Nova Scotia) co-operate in the support of an Atlantic Provinces Examining Bd. which sets and marks exams. for each of the three provinces. The exams. differ for the various provinces, however, and the results are issued by the provinces on their own certs. rather than by the bd. An exception is made for a few private schools for which statements of exam. results are issued in the bd.'s name. In the province of Quebec there are two public examining bodies: for Catholic schools—the *Comité de Régie du certificat d'études* (of the *Comité Catholique du Conseil de l'Instruction Publique*), and for Protestant schools—the Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Education). In Ontario, exams. at the jr. matric. level are set and marked, under the jurisdiction of the provincial dept. of educn., by individual schools, while those at the sr. matric. level are under the supervision of a Univ. Matric. Bd. composed of reps. of the major univs. of the province and reps. of the dept. of educn. In Manitoba, Saskatchewan, Alberta and British Columbia exams. are supervised jntly. by the univ. and the dept. of educn.

A number of the univ. of the Atlantic provinces set their own matric. exam. when necessary, but few students present themselves and seldom does a student take these exams in all of the required subs. In the province of Quebec the three French-lang. univs., Laval, Montreal and Sherbrooke, have extensive programmes of exams (described below). McGill Univ. sets series of papers at both jr. and sr levels, the former qualifying for the School Cert and the latter for the Sr School Cert. of the univ. The univs. of the other provinces do not set matric. exams of their own but, as mentioned above, each co-operates with the dept. of educn. of its province.

In French Canada the course leading to the *baccalauréat* (*BA*) is given in independent *collège classique* affiliated to the univ. It is of 3 yrs' duration, in two 4-year stages called *cours secondaires* and *cours collégial*. The former is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the end stage is by passing the *immatriculation* exam. set by the univ. at the conclusion of the 1st yr known as *verification*, which is the 4th (final) yr. of the *cours secondaires* and the 11th yr. of schooling. Compulsory exam. subs. are: French, Engl., Latin, hist., geog., maths, and sci. Greek is optional. Recent revision of the Quebec French Catholic secondary school curriculum has made it possible for certain schools under provincial control to offer the equivalent of the 1st 4-yr. stage, the classical course preparing for *immatriculation*.

The 4 yrs of the *cours collégial* are called *belles-lettres*, *shétorique*, *philosophie I* and *philosophie II*. In colls. affiliated to Laval and Sherbrooke, univ. exams are taken at the end of the 2nd yr. (*shétorique*), and again at the end of the 4th yr. for the *baccalauréat*. In those affiliated to Montreal, exams are taken at the end of every yr. of the *cours collégial*.

In order to meet the needs of students wishing to enter certain facs. of the French-lang. univs. by routes other than that offered by the *collège classique* the Univ. of Montreal and the Univ. of Sherbrooke inaugurated within recent yrs. a one-yr. preparatory course open to grads. of other secondary schools and leading to a *certificat d'immatriculation* superior or senior.

Laval Univ. and the Univ. of Sherbrooke have *collège universitaires* in which students completing the classical course in public secondary schools may qualify for the *baccalauréat* in 4 yrs.

In 1961 there was instituted in the *collège classique* affiliated to Laval a new *cours des humanités*, 5 yrs. of secondary schooling leading to a *diplôme d'inscription* (sr. matric.), followed by a 3-yr. *collège* course to the *baccalauréat* in arts. In 1961-62 only the 1st 2 yrs. (8<sup>e</sup> and 9<sup>e</sup> années) of the new secondary course were offered, so it will be several yrs. before the new *diplôme d'inscription* will be awarded.

**College Entrance Examination Board (CEEB)** tests Beginning in 1962, McGill Univ. and Bishop's Univ. introduced the use of these tests,

requiring them of all Canadian applicants for admission—in addition to a cert. of completion of secondary school studies (see p. 1533 and pp. 1536-1538). The Coll. Entrance Exam. Bd. (New York, N.Y.), through the Educent. Testing Service (Princeton, N.J.), administers several times a yr. in many centres in the U.S.A. and Canada a scholastic aptitude test and a series of objective-type achievement tests in various subs. The results of these standardized tests are used as addnl. measures of suitability for admission to univ., often providing the basis for tentative acceptance of applicants and the award of entrance scholcs. Discussions begun in 1962 by the National Conference of Canadian Universities and Colleges may lead to general use of such tests throughout Canada.

**Language facility tests.** In 1960, the Univ. of Toronto made it a requirement that all candidates submit evidence of facility in the English lang. (see p. 1548). In 1961, most of the other English-lang. univs. began to experiment with tests of facility in English, asking that they be taken by overseas candidates whose schooling had been in another lang. If the experiment is successful, such tests are likely to be a general requirement in subsequent yrs. The tests currently in use are those administered in many parts of the world by the Univ. of Michigan and the Univ. of Cambridge. Res. begun in 1960 is expected to lead to the development and use of comparable tests of facility in French, for candidates wishing to enter the French-lang. univs.

In the table which appears on pp. 1528-1530 the most common cuts and records of marks used by official examining bodies in Canada are listed. The nos. assigned to them are referred to in the statements of requirements for admission to the various univs., which follow. The reader should be aware that some documents issued by examining bodies do not certify graduation but simply list marks obtained on exams, e.g. 'certificates' numbered 1, 2, 4, 6, 26, 27, 28. It should be noted also that some public high schools issue their own graduation dipls. or certs on bases which may or may not meet the standards set by the provincial dept. of educn., e.g. in Prince Edward Island and New Brunswick.

In order to make these individual statements somewhat comparable, four common headings are used for each English-language institution: A. Admission at the junior Matriculation level; B. Admission at the Senior Matriculation level; C. Students from Abroad and D. Last Date for Receipt of Applications. For the French-language univs., in which the terms jr. and sr. matric. have less relevance, the common headings are: A. Admission to the second stage (*cours collégial*) of the Arts programme in affiliated *collège classiques*; B. Admission to obtain degree courses in the University proper by a certificate of completion of secondary school; C. Students from Abroad and D. Last Date for Receipt of Applications.

**Minimum age at entry.** Few universities require



that candidates for admission should have reached a specified minimum age. Where there is such a requirement, it is noted.

*Required standing* Where no mention is made of required standing or average, it may be assumed in most cases that a pass standard is the minimum expected.

It should be noted that in most universities, admission to such professional schools as med., dent., law, theol., library sci., social work and educn. requires the previous attainment of a 1st degree in arts or sci. or at least a yrs. of study, beyond the jr. matric. level, in arts or sci. Reference to these is omitted except in the few cases (e.g. med. and dent. at  
[continued on p. 1530]

CERTIFICATES AND RECORDS OF MARKS ISSUED BY OFFICIAL EXAMINING BODIES IN CANADA

No	Certificate or Record of Marks	Level *	Examining Body
1	<i>Atlantic Provinces</i> (Newfoundland, Prince Edward Island, Nova Scotia) Statement of Exam. Results (grade XI, Newfoundland and Nova Scotia; grade XII, Prince Edward Island), Atlantic Provinces Examining Bd. (The bd. does not issue a graduation cert.).	JM	Atlantic Provinces Examining Bd.
	Statement of Exam. Results (grade XII, Nova Scotia), Atlantic Provinces Examining Bd. (The bd. does not issue a graduation cert.).	SM	Atlantic Provinces Examining Bd.
3	<i>Newfoundland</i> Matric. Dipl. (grade XI), Dept. of Educn., Province of Newfoundland (Includes details of marks).	JM	Atlantic Provinces Examining Bd.
4	<i>Prince Edward Island</i> Exam. Results in grade XII subjs., Dept. of Educn., Prince Edward Island. (Graduation certs. are issued by individual schools).	JM	Atlantic Provinces Examining Bd.
5	Cert. (or Honour Cert.) of the 2nd Yr., Prince of Wales Coll. and Normal School. (Includes details of marks).	JM	Prince of Wales Coll.
6	Cert. (or Honour Cert.) of the 3rd Yr., Prince of Wales Coll. and Normal School. (Includes details of marks).	SM	Prince of Wales Coll.
7	<i>Nova Scotia</i> High School Cert., grade XI, Dept. of Educn., Nova Scotia. (Includes details of marks. The dept. also issues a 'Record of Exam. Marks Only, Grade XI'.)	JM	Atlantic Provinces Examining Bd.
8	High School Cert., grade XII, Dept. of Educn., Nova Scotia. (Includes details of marks. The dept. also issues a 'Record of Exam. Marks Only, Grade XII'.)	SM	Atlantic Provinces Examining Bd.
9	<i>New Brunswick</i> Departmental Exams., on completion of high school subjs. (grade XII), Dept. of Educn., Province of New Brunswick (Graduation certs. are issued by individual schs. In addition, an Honour Cert. is awarded by the dept. to those with 75 per cent. average in 8 papers.)	JM	New Brunswick Dept. of Educn.
10	Certificate d'immatriculation (Vernification)	JM	Sacred Heart Univ., St. Joseph's Univ., St. Louis Univ.

\* JM=junior matriculation level; SM=senior matriculation level

No	Certificate or Record of Marks	Level*	Examining Body
11	Québec Cert. d'immatriculation (Vestibulation)	JM	Laval Univ., Montreal Univ., Sherbrooke Univ.
12	Examen rhétorique	SM+	Laval Univ., Sherbrooke Univ.
13	Cert. lettres-sciences	JM	Laval Univ., Sherbrooke Univ.
14	Cert. d'immatriculation majeur ou senior	SM	Montreal Univ., Sherbrooke Univ.
15	Cert. d'Études Secondaires, Onzième Année, Dépt. de l'Instruction Publique, Province de Québec	JM	Comité de Régie du Cert. d'Études (of the Comité Catholique du Conseil de l'Instruction Publique)
16	Cert. de Douzième Année, Dépt. de l'In- struction Publique, Province de Québec. Details of marks are given in separate documents.	SM	Comité de Régie du Cert. d'Études (of the Comité Catholique du Conseil de l'Instruction Publique)
17	Dipl. d'études techniques, 4 <sup>e</sup> année	SM+	Instituts de technologie, Province de Québec
18	Catholic High School Leaving Cert. (grade XI), Dept. of Educn., Province of Québec	JM	Catholic High School Exam. Bd. (of the Catholic Cttee. of the Council of Educn.)
19	Catholic Sr. High School Leaving Cert. (grade XII), Dept. of Educn., Province of Québec	SM	Catholic High School Exam. Bd. (of the Catholic Cttee. of the Council of Educn.)
20	High School Leaving Cert. (grade XI), Dept. of Educn., Province of Québec. (Includes details of marks. The dept. also issues a statement of marks, 'High School Leaving Exam., Québec', to those who have not qualified for the cert.)	JM	Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Educn.)
21	Sr. High School Leaving Cert. (grade XII), Dept. of Educn., Province of Québec. (Includes details of marks. The dept. also issues a statement of marks, 'Sr. High School Leaving Exam., Québec', to those who have not qualified for the cert.)	SM	Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Educn.)
22	School Cert., McGill Univ.	JM	McGill Univ.
23	Sr. School Cert., McGill Univ.	SM	McGill Univ.
24	Ontario Secondary School Graduation Dipl. (grade XII) of the General Course, Dept. of Educn., Ontario. (Details of marks may be obtained only from the principal of the sch. attended)	JM	Secondary schools supervised by the Ontario Dept. of Educn.
25	Secondary School Honour Graduation Dipl. (grade XIII) of the General Course, Dept. of Educn., Ontario. (Details of marks are given in a separate document: Grade XIII exam., Dept. of Educn., Ontario).	SM	Univ. Matric. Bd., Ontario Dept. of Educn.
26	Manitoba Statement of standing, grade XI schedule, Dept. of Educn., High School Exam. Bd., Province of Manitoba. (The dept. does not issue a graduation cert.)	JM	High School Exam. Bd., Manitoba Dept. of Educn.
27	Statement of standing, grade XII schedule, Dept. of Educn., High School Exam. Bd., Province of Manitoba. (The dept. does not issue a graduation cert.)	SM	High School Exam. Bd., Manitoba Dept. of Educn.

\* JM=junior matriculation level; SM=senior matriculation level; SM+=beyond senior matriculation level

No.	Certificate or Record of Marks	Level*	Examining Body
28	<i>Saskatchewan</i> Statement of standing, grade XII schedule, Dept. of Educn., Province of Saskatchewan. (Since 1961, the dept. does not issue a graduation cert.).	SM	Bd. of Examiners, Saskatchewan Dept. of Educn.
29	<i>Alberta</i> Sr. High School Dipl. (grade XII), Dept. of Educn., Province of Alberta. (Details of marks are given in a separate document: High School Record, Educn. Dept., Alberta).	SM	High School and Univ. Matric. Exam Bd., Alberta Dept. of Educn.
30	<i>British Columbia</i> High School Graduation Dipl. (Univ. Programme) (grade XII), Dept. of Educn., The Govt. of the Province of British Columbia. (Details of marks are given in a separate document: British Columbia Transcript of Record, grades IX-XIII).	JM	High School and Univ. Matric. Bd. of Examiners, British Columbia Dept. of Educn.
31	British Columbia Transcript of Record, grades IX-XIII	SM	High School and Univ. Matric. Bd. of Examiners, British Columbia Dept. of Educn.

continued from p. 1528]

Toronto) where the pre-professional studies are followed in the professional school itself and where admission is normally at the conclusion of secondary school studies.

Some oft-used terms defined:

**Junior matriculation.** Eligibility for admission to univ. at the lower of the two common levels of entry. A student holding a secondary school graduation cert. may or may not have 'junior matriculation' standing, depending on the number and pattern of the subs. taken and his standing in the exams.

**Senior matriculation.** Eligibility for admission to univ. at the higher of the two common levels of entry. Involves one yr. of study beyond the jr. matric. level.

**Grade, Year.** One yr. of primary or secondary schooling, Sept. to June. Thus grade XI is the 11th yr. of schooling, 12<sup>th</sup> grade is the 12th.

**Pass or General Course.** An unspecialized univ. course, commonly leading to a bachelor's degree in 4 yrs. beyond jr. matric., or 3 yrs. beyond sr. matric.

**Honours course.** A specialized univ. course, sometimes of the same length as the pass or general course, more often one yr. longer.

**Preliminary year.** When a univ. calls the course-yr. beyond sr. matric. '1st yr.', but offers

instrucn. in a course-yr. following jr. matric., the latter is usually referred to as the 'preliminary yr.'

**First year, Second year, etc., of course.** Counting from jr. or sr. matric., depending on which is the minimum level of admission to the fac. concerned.

**Freshman, Sophomore, Junior, Senior year of course.** 1st, 2nd, 3rd, 4th yr., usually counting from the jr. matric. level.

**Subject, Paper.** In any one subject in which a candidate is examined for graduation from secondary school he may be required to write 1, 2 or (occasionally) 3 papers.

**Elective, Option.** A matric. subj. which may be chosen with more or less freedom from a list of subs., no one of which is compulsory.

**Credit.** When an entering student is given credit for a univ. subj., he is exempted from it and the number of courses required for the degree is thus reduced.

**College aptitude test.** Usually a psychological exam. of scholastic aptitude: an intelligence test or something similar.

**Mus. certificates.** Certs. required for admission to facs. of music frequently are referred to in such terms as: grade VIII practical, grade II theory. The reference is to the exams. of one or other of the conservatories of music in the region.

\* JM=Junior matriculation level; SM=Senior matriculation level

## SPECIFIC CONDITIONS

## ACADIA

## A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7.\*

2. Other certs. specified as acceptable equivalents: none specified, but equivalent certs. will be accepted.

3. General requirements: applicants must pass the matric. exams of the univ. (held in Sept.) or present certs. acceptable as equivalents.

4. Specific requirements:

*Arts, sci., engl., comm., home econ., secretarial sci.* (a) Matric. subjs.: (1) Engl., algebra, geom., a lang. other than Engl.; (2) any 3 of: hist., phys., chem., biol., trig., French, Latin, Greek, German, Spanish, music. (b) Required standing: an average of 60 per cent. with no mark below 50 per cent.

*Music.* As for arts and sci., plus grade VII standing in music.

## B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 8.\*

2. Other certs. specified as acceptable equivalents: no. 6.\* Other certs. will be accepted.

3. General requirements: credit may be given for a max. of 5 subjs. of the 1st yr., but conditions are attached to the granting of such credit for phys., chem. and maths.

## C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## D. Last Date for Receipt of Applications

Applics. for admission received after Sept. 1 of the yr. in which admission is sought will be considered only if there is a vacancy. This applies to all students.

## ALBERTA

## A. Admission at Junior Matriculation level

None

## B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 29.\*

2. Other certs. specified as acceptable equivalents: none specified, but equivalent certs. will be accepted.

3. General requirements: (a) students from the high schools of Alberta must present (1) a high school dipl. with (2) 'B' or higher standing

in the required courses of grade XII (*see below*), and (3) an average in these courses of at least 6 per cent.; (b) candidates from outside Alberta will be required to meet equivalent standards (c) a fee of \$5.00 is charged for evaluation of documents issued by Canadian educn. institutions outside Alberta, and a fee of \$10.00 for documents issued by educn. institutions outside Canada.

4. Specific requirements—matric. subjs. required.

*Agric.* Engl., social studies, maths. §; chem.; and 2 of: phys., biol., French or German or Latin (phys. is recommended).

*Arts.* Engl.; social studies, maths. §; French or German or Latin; and 2 of: chem., phys., biol., French or German or Latin.

*Comm.* Engl., social studies, maths. §; and 2 of: chem., phys., biol., French or German or Latin.

*Educn.* Engl.; social studies; and 4 of: maths. §, trig., chem., phys., biol., French, German, Latin. Candidates intending to specialize in household econ. or phys. educn. should offer chem. Those intending to major in maths should offer both algebra and trig.

*Engn.* Engl., social studies, maths. (2 papers: algebra and trig.), chem.; phys.; and French or German or Latin.

*Household econ.* Engl.; social studies, maths. §; chem.; phys. or biol. (phys. is recommended); French or German or Latin.

*Med. lab. sci.* Engl., social studies, maths. §; chem.; and 2 of: phys., biol., French or German or Latin.

*Music.* Engl.; social studies; maths. §; French or German or Latin; and 2 of: chem., phys., biol., French or German or Latin. In addition, students must have completed grade VIII practical and grades IV and V theoretical of the Western Bd. of Music exams, or the equivalent.

*Pharmacy.* Engl.; social studies; maths. §; chem.; and 2 of: phys., biol., French or German or Latin (phys. is recommended).

*Phys. educn.* Engl., social studies, chem.; and 3 of: French, German, Latin, phys., biol. (recommended), maths.

*Sci.* Engl., social studies, maths. §; one of: French, German, Latin; 2 of: chem., phys., biol. (chem. and phys. are strongly recommended). A separate paper in trig. is an addnl. requirement for those intending to follow studies in the phys. sci. or maths.

*Nursing.* Engl.; social studies; chem., and 3 of: maths. §, phys., biol., French or German or Latin.

5. Mature matric: students of mature age whose high school preparation has not been regular may in certain circumstances be excused

\* See pp. 1528-1530

§ One paper, mainly in algebra but including some trig.

from presenting a high school dipl. Such students should apply to the registrar for specific information.

#### C. Students from Abroad

Certs are evaluated in terms of the requirements stated above.

**U.K.** The G.C.E. is accepted as sr. matric. with standing at the advanced level in at least a appropriate subj. and at the ordinary level in the remainder of the 5 subj. prescribed for admission to the fac. concerned.

**Other Commonwealth.** Applicants from other countries of the Commonwealth are generally deemed eligible for admission if they have the standing prescribed for admission to their 'home' univ. as outlined in the *Commonwealth Universities Yearbook*.

**U.S.A.** Applicants generally must have high school graduation plus at least one full yr (the freshman yr.) of coll work with satisfactory standing in Engl., a lang. other than Engl., maths., and a of: biol., chem., phys. The univ. is experimenting with the use of the Coll. Entrance Exam. I'd aptitude and achievement tests as an aid to the selection of students from the U.S.A.

**Europe.** Students who have completed the requirements for admission to a European univ. are deemed eligible for admission at the sr. matric. level upon passing a special oral and written Engl. lang. exam. Such students, therefore, are not granted firm admission until they have taken up residence in Alberta and have passed this exam.

**Middle East, Asia, West Indies, South America** Because the univ. has not a satisfactory procedure for the selection of students from these areas, admission to undergrad programmes is granted only if the applicant is able to produce documentary evidence of having passed a widely recognized exam. at the sr. matric. level, such as the G.C.E. of various U.K. examining bodies, the American C.E.R.E.D. achievement tests, the Univ. of Hong Kong Matric exam., etc. In all cases the univ. will require proof of proficiency in Engl. and of financial competence.

#### D. Last Date for Receipt of Applications

Applics. for admission to courses listed in B 4 above must be received before Aug. 15 of the yr. in which admission is sought. Foreign students should apply about one month in advance of this date.

### ASSUMPTION, WINDSOR

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 24.\*

2. Other certs. specified as acceptable equivalents - equivalent certs. will be accepted. See C below

3. General requirements: jr. matric. admits to the 'prelim. yr'.

#### 4. Specific requirements:

**Arts.** (a) Matric. subj.: (1) Engl.; (2) hist.; (3) Latin or maths.; (4) one of: Latin, French, German, Spanish or Italian, Greek; (5) two of: maths., sci. or agric., music (grade III theory, or grade VII practical and grade II theory), geog., another from (4) above. (b) Required average: at least 65 per cent.

**Sci.** As for arts, but with an average of at least 66 per cent. in maths. and sci.

5. Mature matric.: mature students who lack normal admission requirements but who can give evidence of likelihood of success in univ. studies may be admitted on probation. Satisfactory completion of one yr.'s work will fulfil matric. requirements for degree candidacy.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. specified as acceptable equivalents - equivalent certs. will be accepted. See C below

3. General requirements: (a) satisfactory completion of the prelim. yr. or of 9 papers of grade XIII (cert. no. 25 \*) or the equivalent admits to the first yr (an applicant may be admitted with one condition, i.e. lacking one subj.); (b) required average: at least 60 per cent.

#### 4. Specific requirements:

**Arts.** Matric. subj.: Engl. (2 papers); another lang. (2 papers); and either maths. (2 papers) or a 3rd lang. (2 papers) and any 3 other papers, or music and any 4 other papers.

**Comm. (bus. admin.).** Matric. subj.: Engl. (2 papers); another lang. (2 papers); algebra and one other maths. paper, and any 3 other papers.

**Pure sci.** (a) Matric. subj.: Engl. (2 papers); another lang. (2 papers); algebra, geom., trig.; chem. and phys. (b) Required standing: an over-all average of 60 per cent., plus an average of 60 per cent. in maths. and sci.

**Newsing.** Matric. subj.: Engl. (2 papers); another lang. (2 papers); bot., chem., zool.; and any 2 other papers.

**Appl. sci. (engin.).** Matric. subj. and required standing: algebra, geom., trig. (60 per cent. average); chemistry and physics (60 per cent. average); Engl. (2 papers); either another lang. (2 papers) or 2 papers from bot., geog., hist., zool. (60 per cent. over-all average and grade XII, i.e. jr. matric., lang. also required).

5. Mature matric.: mature students may be accepted part of the normal sr. matric. requirements at the discretion of the cttee. on admissions.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

\* See pp. 1528-1530

**U.S.A.** (a) Graduation from a U.S. high school will admit to the prelim. yr. provided the applicant has completed at least 16 academic units, incl. 4 units in Engl. and sequences (at least 2 and preferably 3 units) in each of maths., sci., social studies and one foreign lang. An applicant for arts may substitute addnl. units in another foreign lang. for either maths. or sci. (b) In addition the applicant must receive a favourable recommendation from his principal, be ranked in the upper half of his class, and obtain a score on a psychological exam. satisfactory to the ctee. on admissions.

**Latin America.** For admission to the prelim. yr. an applicant must present a cert. showing satisfactory completion of the *bachillerato universitario* necessary for admission to univ. in his own country.

**U.K.** The G.C.E. (or an equivalent cert. from elsewhere in the Commonwealth) will admit to the prelim. yr. provided it indicates satisfactory completion of 3 subjs. at the ordinary level (3 of which must be Engl., another lang., maths.). If 2 of the 3 subjs. are at the advanced level, the G.C.E. will admit to first yr., provided the subjs. chosen are appropriate to the course to which admission is sought.

#### D Last Date for Receipt of Applications

Applicants for admission must be received before July 1 of the yr. in which admission is sought. This applies to all students.

### BISHOP'S

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 20.\*

2. Other certs. specified as acceptable equivalents: no. 24.\* Other equivalent certs. will also be accepted. See also C below.

3. General requirements: (a) Subjs. accepted for entry are classified in 3 groups: group I—Engl. (2 papers), French (2 papers), Latin (2 papers), maths (algebra and geom.), group II—biol., chem., geog., German (2 papers), Greek (2 papers), hist., inter. algebra, N. American lit., phys., Spanish (2 papers), trig.; group III—agric., arts and crafts, household sci., music. (b) Coll. Entrance Exam. Bd. tests are required of all Canadian applicants (See also p. 1527)

4. Specific requirements:

**Arts, bus. admin.** (a) Metric subjs. (10 papers): Engl. and 2 other subjs. (6 papers) from group I; the remaining 4 papers may be from groups I, II and III, with not more than one from group III (b) Required standing: an average of at least 70 per cent. with no failures, however, a student may be admitted with an average between 65 and 70 per cent. if he has high marks in arts subjs.

**Sci.** (a) Metric subjs. (10 papers): Engl., maths and one other subj. (6 papers) from group I, the remaining 4 papers may be from groups I, II and III, with not more than one from group III. The subjs. chosen from group II should include at least 2 of: biol., chem., phys. (b) Required standing: an average of at least 70 per cent. with no failures, however, a student may be admitted with an average between 65 and 70 per cent. if he has high marks in sci. subjs.

#### B Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 21.\*

2. Other certs. specified as acceptable equivalents: no. 25.\* Other equivalent certs. will also be accepted. See also B 3 below.

3. General requirements: satisfactory standing in 3 subjs. at the sr. matric. level may be accepted as the equivalent of a full 1st yr. Teachers holding the Quebec Permanent or Advanced Elementary Cert. shall be granted credit for the 1st yr. of the arts course.

#### C Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

**U.S.A.** Students from the U.S.A. will be admitted on the basis of the Coll. Entrance Exam. Bd.: 2 aptitude tests, and achievement tests in Engl. and 2 other subjs.

#### D Last Date for Receipt of Applications

Applicants for admission must be received before March 1 of the yr. in which admission is sought. Candidates who apply after that date may be admitted to the univ. if space is still available.

### BRITISH COLUMBIA

#### A Admission at Junior Matriculation level

Admission at this level is restricted to grads of British Columbia secondary schools.

1. Cert. in terms of which requirements are expressed: no. 30.\*

2. Other certs. specified as acceptable equivalents: none other accepted.

3. General requirements: minimum age, 16 yrs.

4. Specific requirements:

**Arts, sci., agric., educ.** Cert. no. 30.\* Students entering arts and sci. with the intention of entering appl. sci. or for. after one yr. are advised to offer jr. matric. standing in chem., maths. and phys.

**Home economies.** As for arts and sci., preferably including standing in home econ.

**Phys. educ.** As for arts and sci., preferably including standing in chem.\*

\* See pp. 1528-1530

*B. Admission at Senior Matriculation level*

1 Cert. in terms of which requirements are expressed: first yr., fac. of arts and sci., Univ. of British Columbia

2 Other certs. specified as acceptable equivalents: no 31.\* Other equivalent certs. will also be accepted.

3. General requirements: (a) Min age, 16 yrs (b) A student, qualified for admission, who has cert. no. 31\* or its equivalent, may be given credit for not more than 5 subs. in the first yr. of the fac. of arts and sci., the fac. and coll. of educ., or the fac. of agric. For admission to appl. sci., nursing, pharmacy, for, comm. & bus. admin., or rehabilitation med. a student must have completed the first yr. in arts and sci. at the Univ. of British Columbia or its equivalent at an approved univ. or by its native (c) Required average: better than a bare pass

## 4 Specific requirements:

*Arts, sci., home econ., phys. educ., agric., educ.* A student qualified for admission and who has cert. no. 31\* or its equivalent may be given credit for subs. passed which meet the requirements of the first yr. if his standing is sufficiently high

*Appl. sci.* (a) Required subs.: Engl., maths., chem., phys., and one of: Latin, French, German, Russian. (b) Required grades: 60 per cent in maths., chem., and phys., and 50 per cent. in other subs.

*Comm. & bus. admin.* (a) Required subs.: Engl., maths., and 3 others.

*For.* (a) Required subs.: bot. or phys.; chem., Engl.; maths.; and one other.

*Nursing, rehabilitation workers.* (a) Required subs.: Engl.; chem.; zool. or bot.; maths.; and one other (b) Required grades for entry to nursing: 60 per cent. in either chem. or zool., or an over-all average of at least 60 per cent. In other subs. at least 50 per cent. is required

*Pharmacy.* (a) Required subs.: chem.; Engl.; maths.; phys. or zool. or bot.; and one other. (b) Required average: 60 per cent.

*C. Students from Abroad*

(a) General: a student from a country where Engl. is not the common lang. must satisfy the registrar that his knowledge of Engl. is adequate to permit the successful pursuit of his studies.

All foreign students, and students who have not matriculated from a high school where Engl. is the lang. of instruction, if accepted by the registrar for admission, shall report for screening tests on the Friday preceding the week of registration; students who fail so to report may be denied admission to the univ. No such student shall be allowed to register before he has taken the screening test. The ettor. in charge of the preparatory Engl. classes shall, upon reading the screening tests, recommend as to the student's admission and to the level and no. of courses in which registration should be permitted. A student for

whom the preparatory Engl. course is prescribed must attend classes in this subj. regularly if he wishes to continue with his univ. course. He will be admitted to the credit courses in Engl. and certain other subs. only after he has achieved reasonable competence in the work of the preparatory classes.

Advanced standing granted to a student on the basis of work completed in other countries will be tentative only, and is subject to review after the student has completed one or more sessions at this univ.

A student coming directly from another country must give satisfactory evidence of his ability to meet the costs of tuition, board and room, books, and incidentals.

(b) Standing: certs. are evaluated in terms of the requirements stated above.

U.K. The G.C.E. is accepted for admission if it includes ordinary level standing in Engl. (lang. & lit.), another lang., maths., a lab. sci., or a 2nd foreign lang., and either hist. or geog. or an approved option, and advanced level standing in at least 3 of these subs. Credit is then given at the sr. matric level for approved subs. passed at the advanced level for the G.C.E. An applicant with acceptable ordinary level standing may be exempted from the pre-entr. (appl. sci.), pre-ter. or pre-comm. yr. in arts and sci. if he has 3 appropriate subs. at the advanced level. For appl. sci. (engin.)—maths., phys., and chem. are required; for comm.—Engl., maths., and one other subj.; for for.—chem., maths. and either bot. or phys. Three advanced level subs. will normally admit to the 2nd yr. of arts, sci., agric., or educ. Such subs. as lit., religious knowledge, mechanical drawing, etc., are not recognized for admission. Applicants must submit statements of grades obtained on the G.C.E.; in general, an average of at least 4 is required, with no grade less than 5.

West Indies. The minimum requirement for admission is a Cambridge Overseas School Cert., grade I or grade II, incl. Engl. (lang. & lit.), another lang., a lab. sci., maths., and either hist. or geog. or an approved option such as a 2nd sci. or a 2nd lang. and, in addition, at least 3 of these subs. at the principal level in the Higher School Cert. or at the advanced level in the G.C.E. Statements of grades obtained in individual subs. must be submitted. The G.C.E. of a U.K. examining body is acceptable provided it shows ordinary level standing in the required subs. Credit may be given at the sr. matric. level for approved subs. passed at the principal level on the Higher School Cert. or at the advanced level on the G.C.E.

Hong Kong, China. In general, a student from Hong Kong or China must have reached an edocent. level which would admit him to the Univ. of Hong Kong, and must have taken the subs. required for admission to the Univ. of British Columbia. A student who has matriculated in

\* See pp. 1548-1550

the Univ. of Hong Kong with 1 subj. at the advanced level, incl. Engl., another lang. (which may be Chinese), maths, a lab. sci., and either hist. or geog. or an approved option such as a 2nd sci. or a 2nd lang. may be admitted to the Univ. of British Columbia. Statements of grades obtained in individual subj. must be submitted.

#### D. Last Date for Receipt of Applications

Applica. for admission must be received before Aug. 15 of the yr. in which admission is sought. Overseas students are advised to apply before May 1.

### CARLETON

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 24.\*

2. Other certs. specified as acceptable equivalents: nos. 3, 5, 7, 9, 20, 22, 26, 30\*, and completion of grade XI in Alberta or Saskatchewan. Other equivalent certs. will also be accepted.

4. Specific requirements: *arts, comm., journalism, sci.* (a) Matric. subj.: (1) Engl.; (2) maths (algebra and geom.); (3) hist.; (4) a lang. other than Engl.; (5) sci. (phys. and chem. or agric. sci.); or an addnl. lang.; (6) one of: music, art, geog., agric., an addnl. lang., an addnl. sci. (b) Required average: at least 70 per cent. on school exam. or 65 per cent. on provincial (external) exam.

5. Mature matriculation: a person over the age of 23 years who, though lacking the admission requirements specified above, can give evidence of the likelihood of success in univ. studies, may be admitted on *trial*. If he completes successfully the subj. of the qualifying univ. yr., his matric. will be confirmed and he will be given credit for the yr. This privilege is for full-time students only.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. specified as acceptable equivalents: nos. 6, 8, 21, 23, 27, 28, 30, 31.\* Other equivalent certs. will also be accepted.

3. General requirements: (a) admission will be granted to the 1st yr. of *arts, comm., journalism, sci. or engin.*, or candidates who offer (1) *r. matric.* or mature matric. as prescribed in A above and, in addition, (2) completion of the qualifying univ. yr. or attainment of cert. no. 25\* or an equivalent cert. with required standing in 5 appropriate subj. and an average of at least 60 per cent.; (b) no more than 5 sr. matric. subj. taken in a secondary school may be counted toward a Carleton degree.

#### 4. Specific requirements:

*Arts.* Matric. subj.: Engl. composition & lit.; a lang. other than Engl.; maths. (2 or 3 of

algebra, geom., trig.) or an addnl. lang.; a sci. (biol. or chem. or phys.); one of: hist., geog., a 2nd sci., a 2nd lang. other than Engl.

*Comm.* Matric. subj.: Engl. composition & lit.; a mod. lang. other than Engl.; maths. (algebra, geom. and trig.); a sci. (biol. or chem. or phys.); one of: hist., geog., a 2nd sci., a 2nd lang. other than Engl.

*Engin.* (a) Matric. subj.: Engl. composition & lit.; maths. (algebra, geom., incl. analytic geom., and trig.); phys., chem., one of: Latin, Greek, French, German, Spanish, Italian, hist., biol. (bot. and zool.). (b) Standing required: 1st or 2nd class standing in maths., phys. and chem.

*Journalism.* Matric. subj.: Engl. composition & lit., a lang. other than Engl.; maths. (2 or 3 of algebra, geom., trig.) or Latin; a sci. (biol. or chem. or phys.), one other, preferably hist.

*Sci.* (a) Matric. subj.: Engl. composition & lit.; a lang. other than Engl.; maths. (algebra, geom. and trig.); a sci. (phys., chem., biol.). (b) Standing required: at least 3rd class standing in maths. and sci. subj.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

U.K. The G.C.E. is recognized as equivalent to cert. no. 25\* if the candidate offers passes in 6 subj., including 3 at the advanced level. The Scottish Leaving Cert. is also equated to cert. no. 25\*.

#### D. Last Date for Receipt of Applications

Students from abroad, Aug. 1; others, Aug. 22.

### DALHOUSIE

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7.\*

2. Other certs. specified as acceptable equivalents: nos. 1 and 5.\* Other equivalent certs. will also be accepted.

3. General requirements: minimum age, 16 yrs.

#### 4. Specific requirements:

*Arts, sci., comm., dental leg., engin., nursing, pharmacy.* (a) Matric. subj.: (1) Engl.; (2) algebra, (3) geom., (4) a lang. other than Engl., (5) any three of: hist., phys., chem., biol., trig., Latin, Greek, French, German, Spanish. (A student who, by reason of race or trig., is fluent in a lang. other than those listed in (5) may offer it instead of one of them.) (b) Required standing: a mark of 50 per cent. in each subj. with an average of 60 per cent.

\* See pp. 1528-1530



**B. Admission at Senior Matriculation level**

1. Cert. in terms of which requirements are expressed: no. 8.\*
2. Other certs. specified as acceptable equivalents: none listed, but equivalent certs. will be accepted.
3. General requirements: (a) Min. age, 16 yrs (b) Credit may be given for a max. of 3 subs. of the 1st yr., but conditions are attached to the granting of such credit for Engl., maths and sci. subs.

**C. Students from Abroad**

Certs. are evaluated in terms of the requirements above. Note permission to offer a lang. other than Engl., other than those listed. (See A 4 (a) above).

**D. Last Date for Receipt of Applications**

Applics. for admission must be received before Sept. 1 of the yr. in which admission is sought.

**UNIVERSITY OF KING'S COLLEGE**

Admission requirements are those of the fac. of arts and sci. of Dalhousie Univ.

**LAVAL****A. Admission to the second stage ('*cours collégial*') of the Arts programme in affiliated 'collège classiques' and to the 'collège universitaire'**

1. Cert. in terms of which requirements are expressed: no. 11.\*
2. General requirements: completion of the *cours secondaires* and success in the *immatriculation* exam, no. 11.\*

**B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school**

1. Cert. in terms of which requirements are expressed: no. 16.\*
2. Other certs. specified as acceptable equivalents: none listed.
3. General requirements: (a) 4 copies of a recent photograph; (b) letter of recommendation; (c) cert. of birth or baptism; (d) cert. of vaccination; (e) the prerequisite dipl. In all cases admission may be granted to a candidate presenting the *baccalauréat de math.* One presenting a lesser qualif. ordinarily will be required to take an *examen d'admission* set by the univ. Because lectures are in French, candidates should have facility in that lang.
4. Specific requirements:

*Agric., fisheries, pharmacy, sci. and engin., surveying and for. engin.* Cert. no. 16 (*scientifique*).  
*Comm.* Cert. no. 16 (*spéciale ou scientifique*).  
*Dom. sci.* Cert. no. 11 or no. 16.\*

**C. Students from Abroad**

Certs. are evaluated on the basis of the requirements stated above.

U.K. The G.C.E. is accepted for admission to sci., engin., for., comm. and agric.

**D. Last Date for Receipt of Applications**

Applics. for admission must be received before June 1 of the yr. in which admission is sought.

**McGILL****A. Admission at Junior Matriculation level**

1. Cert. in terms of which requirements are expressed: no. 22.\*
2. Other certs. specified as acceptable equivalents: nos. 3, 5, 7, 9, 18, 20, 24, 26, 30\*, and completion of grade XI in Alberta or Saskatchewan. Other equivalent certs. will also be accepted. See also C below.

3. General requirements: (a) minimum age, 16 yrs; (b) Coll. Entrance Exam. Bd tests are required of all Canadian applicants (see also p. 1527); (c) a complete secondary school record and a confidential report from the principal of the applicant's school are required; (d) students whose native lang. is not Engl. must satisfy the univ. that their command of written and spoken Engl. is adequate; (e) in June and Aug. of each yr. the univ. conducts the exams. of its Jr. School Cert., the examinations set being as follows: Engl. (lit. & composition), French (written & oral), algebra, geom., chem., phys., bot., biol., inter. algebra, trig., German (2 papers), Spanish (2 papers), Latin (2 papers), Greek (2 papers), Russian (2 papers), general hist., British hist., Canadian hist., geog., art, music.

**4. Specific requirements:**

*Agric.* (Macdonald Coll.). Matric. subs. (10 papers): Engl.; hist.; Latin or French or German or Spanish (French preferred); elem. algebra and elem. geom.; phys. or chem. or biol.; either Latin, French, German or Spanish (if not already chosen) or 2 of the following papers not already chosen: inter. algebra, trig., bot. or biol. (not both), chem., phys., art, geog., British or Canadian hist.

*Arts.* (a) Matric. subs. (10 papers): Engl.; general hist.; Latin or Greek; French (written & oral) or Greek or Latin (the one not already chosen) or German or Spanish or Russian; elem. algebra and elem. geom.; one of: biol., bot., chem., art, geog., phys., music, inter. algebra, trig., Canadian or British hist., a lang. not already chosen (the average of the 2 lang. papers is counted). (b) Standing required: an average of at least 65 per cent. If neither Latin nor Greek is included the average required is 70 per cent.

\* See pp. 1528-1530

*Comm.* As for arts or sci.

*Engh.* (Macdonald Coll.) (a) As for arts or sci.

(b) Students applying for admission by means of cert. no. 20\* may offer agric., household sci. or N. American hist. as optional papers. (c) Candidates are also required to meet the Admissions Cttee. of the School for Teachers before their applications are approved.

*Engh., arabic* As for sci., except that students from the Province of Quebec must offer trig. and inter algebra.

*Household sci* (Macdonald Coll.) As for agric. except that music is an additional option. Music and art may not both be chosen.

*Mus.* (a) Metric subsj. (10 papers): Engl., general hist.; French, German, Latin, Spanish or Greek; elem. algebra or elem. geom.; music (practical, instrument or voice) for candidates seeking admission to the MusB programme in either composition or school music, instrument or voice; 11 for MusB in performance. Theoretical: theory 9); 3 of: biol., bot., chem., art, geog., phys., inter algebra, trig., British or Canadian hist., a lang. not already chosen. (b) Required average: at least 65 per cent.

*Phys. and occupat. therapy* (a) Sex—female. (b) Metric subsj. and required standing: as for sci.

*Phys. educ.* As for educn., notes (a) and (b) above.

*Sci.* (a) Metric subsj. (10 papers): Engl., general hist., French (written & oral) or German; elem. algebra and elem. geom.; one of: biol., bot., chem., phys.; either Latin, Spanish, French or German (if not already chosen) or any 2 of the following papers not already chosen: inter algebra, trig., biol. or bot. (not both), chem., geog., phys., British or Canadian hist., music or art (not both). (b) Required standing: an average of at least 70 per cent. Special consideration may, however, be given to BSc candidates who have secured an average of 65 per cent. to 70 per cent. and have shown distinction in subsj. related to the course they wish to enter.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no 23.\*

2. Other certs. specified as acceptable equivalents: nos. 6, 8, 19, 21, 25, 27, 28, 29, 31.\* Other equivalent certs. will also be accepted. See also C below.

3. General requirements: (a) Min. age, 17 yrs. (b) A candidate may be considered for admission to the 2nd yr. of the fac. of arts and sci. or the fac. of engin. if he has jr. matric. as prescribed in A above and sr. matric. as prescribed below. (c) Coll. Entrance Exam Bd. tests are required of all Canadian applicants (see also p. 1527). (d) A complete secondary school record and a confidential report from the principal of the applicant's school are required. (e) In June and

Aug. of each yr. the univ. conducts the exams. of its Sr. School Cert., the exams. set being as follows: Engl. (lit. & composition), accountancy, biol., chem., drawing, French (2 papers), geog., German (2 papers), Greek (2 papers), hist., Latin (2 papers), math. (3 papers), music, Spanish (2 papers), phys.

#### 4. Specific requirements:

*Arts.* (a) Metric subsj. Engl., Latin or Greek; math. (for which, under certain conditions, a substitute may be offered); 2 of: hist., Latin or Greek (the one not already chosen), French, German, Spanish, sci. (phys., chem. or biol.), music, geog. (b) Required standing: an average of at least 70 per cent. Special consideration may, however, be given to candidates who have an average of 65 per cent. to 70 per cent. if they have obtained high standing in Engl., lang., hist.

*Comm.* (a) Metric subsj.: Engl.; math. (algebra, and trig.—or co-ordinate geom. as for sci.); accountancy (for which, under certain conditions, a substitute may be offered); a mod. lang. other than Engl.; one of: hist., a 2nd lang. other than Engl., a sci. (incl. geog.). (b) Required standing: as for arts, with special consideration to those with an average of 65 per cent. to 70 per cent. and high standing in Engl., hist., math.

*Engh., arabic* (a) Metric subsj.: Engl.; math. (all 3 papers), phys., chem.; one of: French, German, Spanish, Latin, Greek, hist., biol., geog. (b) As in note (c) for sci.

*Sci.* (a) Metric subsj.: Engl., math. (algebra and trig.) [Candidates who have passed jr. matric. trig. may offer co-ordinate geom. instead of sr. matric. trig. and are advised to offer co-ordinate geom. if they intend to study for hon. in math., phys. or chem.]; phys.; chem.; one of: French, German, Spanish, Latin, Greek, hist., biol., geog. (b) Required standing: as for arts, with special consideration to those with an average of 65 per cent. to 70 per cent. and high standing in math., phys., chem., biological sci. (c) A candidate who has jr. matric. French may satisfy the sr. matric. German requirement by offering jr. matric. German.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

*U.S.A. (re admission at jr. matric. level)* All candidates from the U.S.A. must write the tests conducted by the Coll. Entrance Exam. Bd. Applicants should preferably write the Jan. or March tests, taking the scholastic aptitude test and 3 achievement tests, the latter chosen in consultation with the school principal. In addition, applicants must submit their complete high school record and should arrange for a confidential letter from the school principal or other competent

\* See pp. 1528-1530

officer to be mailed directly to the univ. Further particulars are obtainable from the registrar of the univ.

**U.K.** For admission at the 3<sup>rd</sup> matric level, the G.C.E. with passes at the ordinary level in 5 subjs. (other than religious knowledge), chosen in accordance with fac. requirements. For admission at the 4<sup>th</sup> matric level: the G.C.E. with passes in 5 subjs. at the ordinary level and, in addition, in at least 2 appropriate subjs. at the advanced level.

#### D. Last Date for Receipt of Applications

Applicants for admission to undergrad., including profess., facs. must be received before March 1 (Wed., Jan. 1) of the yr. in which admission is sought.

### McMASTER

#### A. Admission at Junior Matriculation level

None.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. specified as acceptable equivalents: nos. 6, 8, 21, 23, 27, 29, 31.\* Other equivalent certs. will also be accepted.

3. General requirements: (a) Min. age, 16 yrs. (b) Certs. nos. 24 and 25\*, or the equivalent, the latter showing standing in 5 subjs., comprising 9 papers with an average of at least 60 per cent.—Engl. (2 papers); a lang. other than Engl. (2 papers), an addnl. lang. (2 papers) or maths. (2 papers), and 3 addnl. papers—chosen to meet the specific requirements of the course to which admission is sought.

#### 4. Specific requirements:

**Arts** (general and philosophical studies; social studies), comm. Matric. subjs.: as listed in B 3 above.

**Arts** (lang. & lit. studies). Matric. subjs.: Engl., 2 langs. other than Engl., and 3 addnl. papers.

**Engw.** As for arts, but with an average of at least 64 per cent.

**Nursing.** Matric. subjs.: as listed in B 3 above, preferably incl. chem. as one of the '3 addnl. papers'.

**Sci.** Matric. subjs.: Engl., a lang. other than Engl., maths. (algebra, geom. and trig.), chem. and phys.

5. Mature matriculation: candidates over 21 yrs. of age, even though they may not meet the ordinary entrance requirements, may apply for admission. Their applicants will be considered on their merits.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

**U.S.A.** A student from the U.S.A. may be admitted to yr. I on submitting a cert. of high school graduation recognized by the Coll. Entrance Bd. of the region from which he comes, plus an addnl. yr. of study in a recognized univ. The attention of such students is especially directed to the subj. requirements for admission to McMaster Univ.

**U.K.** Students offering the G.C.E. should have 5 subjs., 2 of them at the advanced level and the others at the ordinary level. Subj. requirements are as outlined in B above, with the advanced level subjs. appropriate to the course desired. Students entering sci. should have at the advanced level at least 2 of: chem., phys., pure or appl. maths. Students entering engin. should have at the advanced level: chem. or phys., and pure or appl. maths.

#### D. Last Date for Receipt of Applications

None.

### MANITOBA

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 26.\*

2. Other certs. specified as acceptable equivalents: none specified, but equivalent certs. will be accepted.

3. General requirements: required standing is either (a) pass, at one sitting, in all the subjs. prescribed for complete jr. matric., or (b) pass, at 2 or more sittings, in all the subjs. prescribed for complete jr. matric. with an average of at least 60 per cent.

#### 4. Specific requirements:

**Arts and sci., fine arts.** Matric. subjs.: Engl.; social studies (Canadian hist.), maths; a and lang. (Latin, French or German), sci. (phys., chem. or biol.); one of: another lang. (Latin, French or German), another sci., music, home econ., general shop, art, commercial work, or geog.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 27.\*

2. Other certs. specified as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: sr. matric. or completion of the 1st yr., admits to the 2nd yr. of arts and sci., or fine arts. Sr. matric., or completion of the 1st yr. of arts and sci., admits to the 1st yr. of agric., archit., engin., home econ., pharmacy, comm., interior design, or physiotherapy and occupational therapy. Full requirement is 5 subjs.: no advanced standing in arts and sci. or fine arts will be granted to a student who offers fewer than 5 sr. matric. subjs.

\* See pp. 1528-1530

## 4. Specific requirements:

*Agne.* (a) Min. age, 16 yrs. (b) Matric. subjs.: Engl., maths.; phys., chem.; and one of: another lang. (French, German or Latin), biol., hist.

*Archit.* (a) Matric. subjs.: Engl.; maths.; phys.; chem., and one of: French, German, Latin, Russian. (b) Required standing: an average of at least 60 per cent., and at least 60 per cent. in each of Engl., maths. and phys.

*Arts and sci., interior design.* Matric. subjs.: Engl.; maths., one of: French, German, Latin (French is preferred for entry to interior design); and 2 of: phys., chem., biol., mod. hist., music, another lang. (Students intending to enter sci. must include both phys. and chem.).

*Comm.* (a) Matric. subjs.: Engl.; maths., one of: French, German, Latin; and 2 of: phys., chem., biol., mod. hist., music, another lang. (b) Required average: at least 63 per cent.

*Engin.* (a) Matric. subjs.: Engl., maths.; phys.; chem., and one of: French, German, Latin, Russian. (b) Required average: at least 60 per cent.

*Fine arts.* Matric. subjs.: Engl.; hist. or a lang. other than Engl., one of: phys., chem., biol.; and 2 others. 5 yr. matric. subjs. must be offered but advanced standing can be given for only 4 because art, the 5th subj. in the 1st yr. of fine arts, is given only at the univ.

*Home econ.* Matric. subjs.: Engl.; chem.; maths.; and 2 of: hist., biol., phys., and lang. other than Engl.

*Pharmacy.* Matric. subjs.: Engl.; maths.; phys., chem.; and one of: French, German, Latin.

## C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

Students from abroad for whom Engl. is a 1st or 2nd lang. must pass an Engl. lang. test to obtain admission—either the Engl. proficiency exam. of the Univ. of Cambridge or the Engl. lang. test of the Univ. of Michigan. A placement test in the Engl. lang. is given during the week of registration to all entering students whose native tongue is not Engl.

*Hong Kong.* Applicants from Hong Kong must present evidence of having reached the matric. standard of the Univ. of Hong Kong or an equivalent standard. Those who offer advanced level standing in maths., phys. or chem. will be given an matric. credit for not more than 2 of them.

*West Indies, Nigeria.* Students from these areas must present evidence of having attained a 1st or 2nd class Cambridge Overseas School Cert. or an equivalent standard. Applicants with the Higher School Cert., or the G.C.E. with passes at the advanced level, will be given credit for not more

than 5 1st-yr. subjs. in arts and sci. (i.e. one course-yr.)

## D. Last Date for Receipt of Applications

Applicants for admission from students already in Canada should be received before Aug. 31 of the yr. in which admission is sought. Overseas students must submit applns. by July 15.

## MEMORIAL, NEWFOUNDLAND

## A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 3.\*

2. Other certs. specified as acceptable equivalents: none specified, but equivalent certs. will be accepted.

3. General requirements: minimum age, 16 yrs.

4. Specific requirements: arts, educ., sci., comm., phys. educ. (a) Matric. subjs.: Engl. lang., Engl. lit.; algebra, geom. & trig.; hist.; one of: French, German, Greek, Latin, Spanish; one of: biol., chem., gen. sci., geol., phys. (b) Required average: at least 55 per cent.

## B. Admission at Senior Matriculation level

No published regns.

## C. Students from Abroad

Admission is dealt with on an individual basis, in terms of the requirements stated above.

## D. Last Date for Receipt of Applications

Applicants for admission should be received before July 31 of the yr. in which admission is sought.

## MONTREAL

## A. Admission to the second stage ('course collégiale') of the Arts programs in affiliated 'collèges classiques'

1. Cert. in terms of which requirements are expressed: no. 11.\*

2. General requirement: completion of the cours secondaires and success in the inscription exam., no. 11.\*

## B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1. Certs. in terms of which requirements are expressed: nos. 11, 14, 16.\*

2. Other certs. specified as acceptable equivalents: equivalent certs. will be accepted.

3. General requirements: (a) Min. age: none

\* See pp. 1528-1530

specified. (b) Birth cert., (c) Cert. of vaccination (d) 3 copies of a recent photograph. (e) Cert. of good conduct signed by a recognised authority (colleagues, univ. or religious). (f) Complete record of prerequisite studies (in French, Engl or Latin or translated into one of these langs.). In most cases admission may be granted to a candidate presenting the *baccalauréat des arts*. One presenting a lesser qualif. may be required to take an entrance exam. set by the univ.

#### 4. Specific requirements:

*Arts* (courses for adults offered by the univ.), *commer.* (École des Hautes Études Commerciales), *music*. Cert. no. 16 \*

#### 5. Pedagogy. Cert. no. 11 \*

*Sci., engin.* (École Polytechnique), *nurture*, *vet med.* (École de Médecine Vétérinaire). Cert. no. 14 or no. 16 (scientifique) \*

*Social sci.* Cert. no. 14 or no. 16 (spéciale) \*

5 Special courses for adults: the extension dept. of the univ. offers special evening and summer courses for adults in arts (see above). Minimum age for admission 20 yrs.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above

#### D. Last Date for Receipt of Applications

None.

### MOUNT ALLISON

#### A. Admission at Junior Matriculation level

1 Cert. in terms of which requirements are expressed no. 9 \*

2 Other certs. specified as acceptable equivalents: nos. 1, 3, 4 and 5 \* Other equivalent certs. will also be accepted.

3 General requirements: (a) Min. age, 16 yrs. (b) To be admitted to a regular course leading to a degree a student must have jr. matric. standing with at least 50 per cent. in each of 7 subjects and an average of at least 60 per cent. (c) Students, especially those of mature yrs., who cannot meet these requirements may apply to the rect. on admissions for a ruling. (d) The univ. holds matric exams in Sept.

#### 4. Specific requirements:

*Arts, sci., comm., secretarial sci., fine arts, engin., home econ.* Matric. subjs: Engl.; algebra, geom.; a lang. other than Engl.; and 3 options chosen from chem., phys., biol., geol., geog., hist., econ., music, trig., and not more than 2 other lang. subjs. Another subj. approved by the rect. on admissions may be offered in place of one of the electives named above

*Music.* As for arts, but with music as one of the chosen options. The entrance requirement in music is grade VI standing in a practical subj. and a knowledge of the rudiments of music.

5 Mature matric.: see 3 (c) above

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no specific cert

2 Other certs. specified as acceptable equivalents: no. 6 \* Other equivalent certs. will also be accepted.

3 General requirements: (a) Min. age, 16 yrs. (b) A student who has completed jr. matric. or the equivalent and has a mark of 50 per cent. or more in certain subjs. of jr. matric. standing, or the equivalent, will get credit for corresponding 1st-yr. subjs. up to the number of five. Conditions are attached, however, to the granting of such credits in maths, chem. and phys.

#### 4. Specific requirements

*Teaching.* Students with complete jr. matric. who hold a 1st class licence obtained after one yr. in an approved teacher-trg. instn. with an average mark of 65 per cent. will be allowed to proceed to the degree of bachelor of teaching

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above

*U.S.A.* For entry at the jr. matric. level, a satisfactory transcript from a high school of recognised standing and a statement from the principal, recommending the student for admission to univ. Standardised test scores from an approved examining body are required

*U.K. and West Indies.* The G.C.E., or equivalent, is accepted if the required subjs. are included and is equated to jr. or sr. matric. depending on evaluation of the individual cert and the conditions under which it was obtained. Credit in a 1st-yr. subj. is allowed for any one subj. at advanced level for the G.C.E.

*Hong Kong Univ.* of Hong Kong matric. or equivalent, is required for admission.

*Europe.* European certs. which admit the student to a European univ. are equated to sr. matric.

#### D. Last Date for Receipt of Applications

Applics. for admission should be received before Aug. 31 of the yr. in which admission is sought.

### MOUNT SAINT VINCENT COLLEGE

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7 \*

2. Other certs. specified as acceptable equivalents: equivalent certs. will be accepted

3. General requirements: (a) admission restricted to women; (b) every candidate for entrance as required to present: (1) an appln. filled out by the student, (2) satisfactory references, business and social, and (3) an official transcript of her high school record; (c) all

candidates for a degree must satisfy the requirements for matric, either by presenting acceptable certs or by passing matric. exams; (d) required standing: at least 50 per cent. in each subj. and an average of at least 60 per cent.

#### 4. Specific requirements:

*Arts, elementary educ.* Matric. subsj.: Engl.; Latin or Greek; algebra; geom.; hist.; a mod. lang. other than Engl.; one elective.\*

*Music.* Matric. subsj.: Engl.; French; hist.; algebra and geom.; 2 electives.\*

*Sci. (pure).* Matric. subsj.: Engl.; algebra; geom.; hist.; a mod. lang. other than Engl.; 2 electives\*, one of them from the field of sci.

*Home econ.* Matric. subsj.: Engl.; a mod. lang. other than Engl.; hist.; algebra and geom.; a sci.; one elective.\*

*Secretarial studies.* Matric. subsj.: Engl.; a mod. lang. other than Engl.; hist.; algebra and geom.; 2 electives.\*

*Nursing.* Matric. subsj.: Engl.; algebra; geom.; a lang. other than Engl.; a sci.; 2 electives chosen from hist., phys., chem., biol., econ., trig.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no 8 §.

2. Other certs. specified as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: (a) Student who has completed jr. matric., and who holds a cert. indicating that she has done work in advance of that standard, may be allowed to take a degree in 3 yrs. (b) Advanced standing will not be given for jr. matric. subsj. unless the grade is at least 60 per cent.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

#### D. Last Date for Receipt of Application

Applications for admission should be received before June 1 of the yr. in which admission is sought.

## NEW BRUNSWICK

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 9 §.

2. Other certs. specified as acceptable equivalents: none specified, but equivalent certs. will be accepted.

3. General requirements: (a) the following subsj. of New Brunswick Jr. Matric., or its equivalent, are required for entrance to the 1st yr. at the univ.: algebra, geom., Engl. and 4 of: biol., chem., French, hist., Latin, phys., or maths.

\* Electives may be chosen from the following: hist. (anc., mediev., mod., Canadian, Engl. or U.S.), sci. (phys., chem., bot. or zool.), econ., algebra, geom., or trig., where not already required.

§ See pp. 1536-1539

(trig.), (b) required standing: (i) students from the provinces of New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland—50 per cent. in each subj. and an average of at least 60 per cent.; (ii) other students—50 per cent. in each subj. and an average of at least 65 per cent.

#### 4. Specific requirements:

*Arts.* General requirements as in A 3, preferably incl. French.

*Bus. admin., phys. educ.* General requirements as in A 3.

*Sci., agr., for.* General requirements as in A 3, preferably incl. as maths (trig.), phys. and chem.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: successful completion of grade XIII in a New Brunswick high school approved by the univ. for this purpose.

2. Other certs. specified as acceptable equivalents: no 2 §. Other equivalent certs. will be accepted.

3. General requirements: (a) candidates will be accepted for entrance to the 2nd yr. of courses other than that leading to the degree of bachelor of teaching if they have completed the freshman yr. or grade XIII in a New Brunswick high school approved by the univ. for this purpose, or present equivalent certs. of another province or univ.; (b) the univ. conducts a sr. matric. exam. in Sept.; (c) required standing: (i) New Brunswick grade XIII—at least 50 per cent. in each subj., (2) sr. matric. outside New Brunswick—an average of at least 65 per cent. and at least 50 per cent. in each subj.

4. Specific requirements: teaching. In addition to the jr. matric. requirements a 1st class licence obtained after 1 yr. in a teacher-trg. instn., with an average grade of 65 per cent., is required for admission to the bachelor of teaching course.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

#### D. Last Date for Receipt of Application

Applications for admission from New Brunswick students should be received before Sept. 1 of the yr. in which admission is sought. Applications from other students should be received before Aug. 15.

## NOVA SCOTIA AGRICULTURAL COLLEGE

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7 §.

2 Other certs. specified as acceptable equivalents: nos. 3, 5 and 9.\* Other equivalent certs. will also be accepted.

3 General requirements: all candidates for admission to the degree course in Agric. must (a) be at least 16 yrs. of age, (b) be of good moral character, (c) present a med. cert. dated not more than 30 days previous to registration, (d) have an acceptable matric. cert.

4. Specific requirements: *agrie* (a) Matric. subjs.: Engl. (2 papers); algebra, geom.; 2 of chem., phys., biol.; 2 of: hist., econ., a lang. other than Engl.; (b) Required average: at least 60 per cent.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 8.\*

2 Other certs. specified as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: (a) Min. age, 16 yrs. (b) Students with at least 60 per cent. in sr. matric. Engl. will be granted an exemption from the 1st-yr. class in Engl. No other exemptions will be granted for sr. matric. standing.

4. Specific requirements: candidates who look forward to completing their course at the Ontario Agric. Coll. should possess a cert. at the sr. matric. level, with standing in Engl., algebra, trig., chem., phys., and a lang. other than Engl.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Candidates presenting the G.C.E. must have standing at the ordinary level (at least) in the subjects listed in A 4 above.

#### D. Last Date for Receipt of Applications

Applics. for admission from Canadian students should be received before Sept. 15 of the yr. in which admission is sought. Foreign students should apply before March 1.

### NOVA SCOTIA TECHNICAL COLLEGE

Students are admitted only by transfer from other colls. and univs.

*Archit.* After completion of 2 yrs. of engin. studies beyond the jr. matric. level.

*Engin.* After completion of 3 yrs. of engin. studies beyond the jr. matric. level.

Applics. for admission should be received before July 1 of the yr. in which admission is sought (students from abroad, April 1).

### OTTAWA

#### A. Admission at Junior Matriculation level

1 Cert. in terms of which requirements are expressed: no. 24.\*

2 Other certs. specified as acceptable equivalents: nos. 3, 5, 7, 9, 11, 15 (*seventyfive*), 20, 26, 30\*, completion of grade XI in Alberta or Saskatchewan. Other equivalent certs. will also be accepted.

3 General requirements: at the time of application each candidate must ensure submission to the registrar of an official transcript of academic record and a letter of recommendation, and with his applicn. he must pay an applicn. fee of \$5 (not refundable).

#### 4. Specific requirements:

*Arts, econ., educ., home econ., phys. educ., and soc., econ. and pol. sci.* (a) Matric. subjs.: Engl., French, hist. (anc. & mod.), maths. (algebra and geom.), and one of: Greek, Latin, German, Spanish, Italian, sci. (phys. and chem.), geog., agric. (b) Required average: at least 60 per cent. (c) Candidates for home. courses must have obtained at least 60 per cent. in the subjs. related to the home. courses they plan to enter.

*Nursing.* Matric. subjs.: Engl., French, maths. (algebra and geom.), sci. (phys. and chem.), hist. (anc. & mod.), and one of: Latin, Spanish, Italian, commercial work, household sci., art, music, agric.

*Sci., agrie.* (a) Matric. subjs.: French, Engl., maths. (algebra and geom.), sci. (phys. and chem.), hist. (anc. & mod.), and one of: Latin, German, Spanish, Italian. (b) Required standing: at least 60 per cent. in each of the maths. and sci. subjs. and an over-all average of at least 60 per cent.

5 Mature matriculation: candidates 21 yrs. of age or over who have not obtained matric. standing but have, through personal study, acquired an educn. deemed sufficient, may be admitted conditionally. If they successfully pass the 1st 5 exams. they may pursue their studies on the basis of this 'adult' matric.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. specified as acceptable equivalents: nos. 6, 8, 16, 23, 27, 28, 29, 31.\*

3 General requirements: as outlined in A 3 above.

#### 4. Specific requirements:

*Arts, econ., educ., home econ., phys. educ., social sci.* Normally candidates with cert. no. 25\* or the equivalent will be admitted to the 2nd yr. providing they have an average of at least 60 per cent.

*Med.* For admission to the 1st pre-med. yr. the candidate should have cert. no. 25\* or the equivalent with home. standing in: French (composition & lit.), Engl. (composition & lit.), maths. (2 of algebra, geom., trig.), chem., phys., and one of: hist., bot., zool., a 3rd maths. paper, a 3rd lang.

*Sci., agrie.* Completion of the 1st yr. in the fac. of sci. of the univ. or presentation of cert.

\* See pp. 1528-1530

no. 25\* or the equivalent with standing in: Engl and French, and an average of at least 60 per cent in each of chem., phys and matha. (algebra, geom and trig.). A candidate with a *baccalauréat* (sec. option) will be admitted.

#### C. Students from Abroad

Certs are evaluated on the basis of the requirements stated above

#### D. Last Date for Receipt of Applications

Applications for admission should be received before Sept 1 of the yr in which admission is sought, with the exception of the fac of med, for which applicants should be received before Aug. 1

### QUEEN'S

#### A. Admission at Junior Matriculation level

None, but Jr matric as well as sr matric as required for admission to applied sci and nursing.

1. Cert in terms of which requirements are expressed: no. 24\*

2. Other certs. listed as acceptable equivalents: nos. 3, 5, 7, 9, 20, 22, 23, 26, 30\*, and completion of grade XI in Alberta or Saskatchewan.

#### B. Admission at Senior Matriculation level

1. Cert in terms of which requirements are expressed: no. 25\*

2. Other certs. specified as acceptable equivalents: nos. 6, 8, 21, 24, 27, 28, 29, 31\*. Other equivalent certs. will also be accepted. See also C below

3. General requirements: certs nos. 24 and 25\*, or the equivalent, with required standing in 5 subjects. Grade XIII (cert. no. 25\*) exams are held in the following subs.: Latin, Engl, hist., matha (algebra, geom., trig.), Greek, German, French, Spanish, Italian, music, phys., chem., biol. and geog. The pass standard is 50 per cent. in each paper.

#### 4. Specific requirements:

*Arts and sci.* (a) Metric subs. for gen. and hon. courses in the humanities and soc. sci.: Engl.; a 2nd lang.; Latin or matha. (at least 2 papers); and 2 other subs. Metric subs. for courses leading to BSc hon.: Engl.; a 2nd lang.; matha. (3 papers); phys.; chem. (b) Expected average: at least 65 per cent. Candidates offering an average of 60 to 64 per cent. are considered if they can give convincing evidence of their capacity for univ. work. In dealing with applicants in this position the admissions office, in close co-operation with school principals and teachers, take into account the complete sch. record and estimates of the candidate's quality and intellectual promise. (c) Candidates offering only 4 of the subs. specified may be admitted providing they have at least 2nd class hon.

standing on 3 of them. These students are 'conditioned' in the subj. in which they lack standing and they may remove this condition by writing off the grade XIII paper or papers in the subj. concerned or by taking an extra course at the univ. (d) Candidates for admission to BA hon. courses should offer the 2 subs. which will be the major and minor for the degree and 3 others chosen from the compulsory courses on the degree programme they wish to follow.

*Appl. sci. (engng.).* (a) Jr matric. standing must include Engl. and another lang. (b) Sr matric. subs. and minimum standing required: Engl.; matha (algebra, geom., incl. analytical geom., and trig., with an average of at least 60 per cent.); phys. (with at least 60 per cent.); chem. (with at least 60 per cent.); and one of: a lang. other than Engl., hist., biol. (bot and zool), geog. (c) Expected average: 65 per cent. Candidates offering averages of 60 to 64 per cent. are considered if they can give convincing evidence of their capacity for univ. work. (d) Candidates who have had practical engng. trig. or who are otherwise specially qualified for an engng. course may be admitted at the discretion of the fac., on conditions to be determined in each case, even though they do not present precisely the subs. named above.

*Comm. and bus. admn.* (a) Metric subs.: Engl., matha (3 papers) or Latin, a lang. other than Engl., which may be Latin if matha. is offered; and 2 other subs. (b) Expected average: 65 per cent. Candidates with averages of 60 to 64 per cent. may be admitted under the same conditions as outlined under arts and sci. above. (c) A student may enter with 4 subs. under conditions similar to those outlined for arts above. (d) Students from high schools of comm. may offer grade XIII standing in matha. of investment in place of algebra as part of the requirement in matha.

*Med.* Metric subs. (a min. of 9 papers) for admission to the 1st pre-med. yr.: Engl.; matha. (a of algebra, geom., trig., preferably incl. trig.); one of: Latin, Greek, French, German, Italian, Spanish, chem.; phys.; one of: bot., zool., hist., a matha. paper not already chosen, another lang., geog.

*Nursing.* (a) Jr matric. standing must include phys. (b) Sr matric. subs.: Engl., chem., biol. and 2 other subs. (c) Expected average: 65 per cent. Candidates with averages of 60 to 64 per cent. may be admitted under the same conditions as outlined under arts and sci. above. (d) When possible a personal interview with the dir. of the school of nursing is arranged.

*Phys. and health educ.* (a) Metric subs.: Engl.; matha. (at least 2 papers, one of which should be trig.); a lang. other than Engl.; chem.; phys. (b) Expected average: 65 per cent. Candidates with averages of 60 to 64 per cent. may be admitted under the same conditions as outlined under arts and sci. above.

\* See pp. 1538-1539



5. Mature matriculation: unmatriculated candidates for admission to extra-mural matric. who are over 23 yrs. of age, or alternatively, if 21 and if they have been out of school for at least 2 yrs., may be admitted 'conditioned' in the subs. of matric. which they lack, if they satisfy the hd. of studies that they can undertake univ. work with profit. See also note (d) under appl. sec. above.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

U.K. Certs. considered equivalent to no. 25\* include the Scottish Leaving Cert., and the G.C.E. in at least 5 subs. of which 2 must be at the advanced level.

#### D. Last Date for Receipt of Applications

Candidates are asked to apply early in the New Year, i.e. soon after Jan. 1.

### ROYAL MILITARY COLLEGE OF CANADA

#### A. Admission at Junior Matriculation level

None, but those with jr. matric. standing may be admitted to another of the 3 Canadian Services Colls., Collège Militaire Royal de Saint Jean, in the 'preparatory yr.'

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no particular cert.; students are admitted from all provinces of Canada.

2. Other certs. specified as acceptable equivalents: see above.

3. General requirements: (a) age—on 1st Jan. of the yr. of entrance the candidate must have reached his 16th birthday but not his 21st. Consent of parents or guardian is required if he is under 18; (b) sex—male, (c) citizenship—Canadian citizen, or British subject resident in Canada with status of a landed immigrant; (d) marital status—must be single and remain so until commissioned; (e) health—must be medically fit for enrolment in the Service of his choice.

4. Specific requirements: arts, econ., sci. Matric. subsjs: Engl.; French or hist. (preferably French); phys.; chem.; maths. (algebra, geom. and trig.).

#### C. Students from Abroad

Students from abroad must meet all requirements, including those of citizenship stated in B 3 (c).

U.K. Students presenting the G.C.E. should offer ordinary level standing in Engl., French or hist., and chem.; and advanced level standing in maths and phys.

#### D. Last Date for Receipt of Applications

Applica. for admission should be received before July 1 of the yr. in which admission is sought.

### SAINT DUNSTAN'S

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 4.\*

2. Other certs. specified as acceptable equivalents: none listed, but equivalent certs. will be accepted. Those presenting 'equivalent' certs. must meet specific requirements listed in 4 below.

3. General requirements: successful completion of the high school course in Prince Edward Island (cert. no. 4\*) with an average of at least 60 per cent. or the grade XII cert. of St Dunstan's High School.

4. Specific requirements (applicable to those who offer certs. other than those mentioned in para. 3 above)

Arts. Matric. subsjs.: Engl., Latin, French, hist., algebra, geom., and phys. or chem. or biol.  
Sci. Matric. subsjs.: Engl., French, hist., algebra, geom., phys., and chem.

Comm. Matric. subsjs.: Engl., French, hist., algebra, geom.; and 2 of: Latin, phys., chem., biol.

Students who offer credits in different but equivalent subsjs. will be accepted but may be required to do remedial work in order to qualify for admission to specific univ. courses required by their programme.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 2.\*

2. Other certs. specified as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: credit may be given for subsjs. of the freshman yr., except for phys., chem., econ.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Students from colls. or high schools in the Queen are required to present evidence of successful completion of 'lower level form six' or the equivalent for admission at the jr. matric. level.

#### D. Last Date for Receipt of Applications

While there is no closing date for applica., (a) students from abroad have little chance of being accepted after March 1, and (b) the following priorities are observed: to June 30, students previously in attendance; to Aug. 15, students from Prince Edward Island; after Aug. 15, no priorities.

\* See pp. 1548-1550

## SAINT FRANCIS XAVIER

## A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7.\*

2. Other certs. specified as acceptable equivalents: nos. 1, 5, 9, 20, 24.\* Other equivalent certs. will also be accepted.

3. General requirements: (a) each candidate for admission is requested to present a letter of recommendation from his pastor or from some other person known to the univ. authorities, (b) a candidate for admission to the freshman yr. must either pass the univ. matric. exams. (given in Sept.) or present a cert. showing that he has sufficient academic preparation.

4. Specific requirements: arts, comm., engin., home econ., sci. (a) Matric. subjs.: Engl., mod. lang., hist., algebra, geom., 2 of Latin, phys., chem., biol., another hist., another lang. (b) Required standing: an average of at least 60 per cent. with a minimum of 50 per cent. in each subj. (c) A student not sufficiently prepared to follow a univ. course in French or Latin will be required to take a preparatory course in that subj.

5. Mature matriculation: students of mature age may be admitted as special students on the basis of a satisfactory score on a coll. aptitude test. Satisfactory standing in an assigned course of studies will fulfil matric. requirements for degree candidacy.

## B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 8.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: (a) see A 3 (n) above, (b) unless a student has made an excellent record in his grade XII work, he will require 4 yrs. to complete a univ. degree course.

4. Specific requirements:

Arts, sci., etc. Credit may be given for a maximum of 5½ subjs. (32 semester hours) of the freshman yr., but conditions are attached to the granting of such credit for maths. and sci. subjs.

Nursing. Jr. matric. in for arts or sci., plus a si. matric. cert.: no. 8\* or the equivalent.

## C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## D. Last Date for Receipt of Applications

Applics. for admission should be received before July 1 of the yr. in which admission is sought.

## SAINT JOSEPH'S

## A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 10.\*

2. Other certs. specified as acceptable equivalents: no. 9.\* Other equivalent certs. will also be accepted.

3. General requirements: applics. for admission must be accompanied by (a) an official and detailed transcript of academic record, (b) a cert. of good character and (c) a cert. of good health from a physician.

4. Specific requirements:

Arts. Matric. subjs.: Engl., French, Latin, algebra, geom., hist., phys., chem.

Sci., engin., comm. As for arts, except that Latin is not required.

Music. Cert. no. 9\*, plus grade IX standing in music.

Home econ. Cert. no. 9\*, or an equivalent cert.

## B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no specific cert.

2. Other certs. specified as acceptable equivalents: no. 16.\*

4. Specific requirements: comm. Candidates holding cert. no. 16 (clerkship)\* will be admitted to the 2nd yr.

## C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## D. Last Date for Receipt of Applications

Applics. for admission should be received before Aug. 15 of the yr. in which admission is sought.

## SAINT MARY'S

## A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7.\*

2. Other certs. specified as acceptable equivalents: nos. 1, 5 and 9.\* Other equivalent certs. will also be accepted.

3. General requirements: applics. for admission must be accompanied by (1) a testimonial of good character, (a) official matric. cert., (3) a recent photograph (passport size), (4) a \$3 applic. fee if the applicant is not a resident of Canada, (5) where necessary, a cert. stating that the student's mastery of Engl. is such as to enable him to follow courses at univ. level. To be admitted to the univ. as an undergrad. a candidate must offer credit in 7 matric. subjs.: Engl., another lang., algebra; geom., and 3 of: chem., phys., biol., hist., econ., Latin, another lang. For admission to any of the courses for which only one lang. other than Engl. is required, the jr. matric. standing must be at least 50 per cent. in each subj. with a general average of at least 60 per cent.

4. Specific requirements:

Arts, comm. General requirements as in A 3 above.

\* See pp. 1528-1530

*Sci., engs.* General requirements as in A 3 above, incl. chem. and phys. and/or trig

#### B Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no 8.\*

2. Other certs. specified as acceptable equivalents: nos. 2 and 6\* and the cert. of the 1st yr. of Memorial Univ. of Newfoundland. Other equivalent certs. will also be accepted.

3. General requirements: credits may be given for a max. of 5 subs. of the 1st yr., but in all subs. a mark of 60 per cent. is required and further conditions are attached to the granting of such credit in maths. and sci. subs.

#### C Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Note requirement of cert. of facility in the Engl. lang. See A 3 above.

#### D. Last Date for Receipt of Applications

Applica. for admission should be received before Aug. 15 of the yr. in which admission is sought.

### SASKATCHEWAN

#### A. Admission at Junior Matriculation level

None, but those with jr. matric. standing may be admitted to the (sr.) matric. course at the Regina campus of the univ.

#### B Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 28\*

2. Other certs. specified as acceptable equivalents: cert. of the matric. course at the Regina campus of the univ. Other equivalent certs. will also be accepted.

3. General requirements: (a) minimum age, 16 yrs; (b) satisfactory standing in six subs. (see 4 below): (1) cert. no. 28\* with an average of 60 per cent., (2) an equivalent cert., or (3) the matric. course at the Regina campus of the univ.; (c) for combined courses in two colls. (facs.) the admission requirements of both colls. must be met.

#### 4. Specific requirements:

*Agric.* Matric. subs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) chem.; (5) biol. or phys.; (6) one other: a lang., hist. of Engl. lit., econ. an additl. sci. (biol., phys. or geol.), art, or agric.

*Art and sci.* Matric. subs.: (1) Engl. (lit. & composition); (2) another lang.; (3) social studies (hist.); (4) maths. (algebra, combined geom. and trig.) or Latin (students intending to take a lit. course should offer Latin; those intending to take a scientific course should offer maths.);

(5) a sci. (biol., chem. or phys.), (6) one other: a lang., a sci. (incl. home econ., geol.), maths., music, econ., hist. of Engl. lit., or art.

*Comm.* Matric. subs.: (1) Engl. (lit. & composition); (2) another lang.; (3) social studies (hist.); (4) maths. (algebra, combined geom. and trig.); (5) a sci. (biol., chem. or phys.); (6) one other: another lang., a sci., home econ., music, econ., hist. of Engl. lit., or art.

*Eds.* Cert. no. 28\* or its equivalent with an average of at least 60 per cent. Applicants should note, however, that certain academic classes may be selected for the BEd curriculum only if they are sequent to subs. studied in grade XII.

*Engn.* Matric. subs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) phys.

*Home econ.* Matric. subs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) one other: another lang., a sci., home econ., hist. of Engl. lit., or art.

*Nursing* Matric. subs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) one other: another lang., biol., phys. (preferred), geol., or home econ.

*Pharmacy* Matric. subs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) phys.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

*U.K.* Candidates offering the G.C.E. should have passes in 5 suitable subs. (other than religious knowledge), 2 or 3 at the ordinary level and 2 or 3 at the advanced level, depending on the course of study to be followed at the univ. The 5 subs. must in all cases include Engl., maths. and a sci. (chem., phys. or biol.).

For admission to arts and sci., comm., engn., home econ., nursing and pharmacy the 5 subs. should include a lang. other than Engl. (French, German or Latin) at the advanced level. For admission to agric., home econ. and pharmacy the 5 subs. should include chem. at the advanced level. For admission to engn. and nursing the 5 subs. should include chem. and phys. at the advanced level. For admission to agric., a scientific course in arts and sci., comm. and engn., the 5 subs. should include maths. at the advanced level. No special papers, other than those mentioned in the previous para., are required for admission to edum.

Comparable regns. govern those presenting the Higher School Cert.: for passes at the ordinary level, G.C.E., read passes at the School Cert. level; for passes at the advanced level, G.C.E., read passes at the Higher School Cert. level.

\* See pp. 1528-1530

**Hong Kong.** (a) The minimum requirement is passes in 5 subs. of the Metric. Exam. of the Univ. of Hong Kong, 2 at the ordinary level and 3 at the advanced level. The 5 subs. must in all cases include Engl., maths. and a sci. (chem., phys. or bot.) and specific requirements are as outlined above for candidates presenting the G.C.E. (b) A confidential letter of recommendation from the applicant's school principal also is required and must be sent by the principal direct to the registrar, Univ. of Saskatchewan. (c) Each applicant must have a sufficient knowledge of Engl. to understand instruction, in the courses and to profit from this instruction. Students who pass the Univ. of Hong Kong Engl. lit. and Engl. lang. papers at the ordinary level or the G.C.E. Engl. lit. and Engl. lang. papers will be considered to have met the Engl. requirements. Applicants may also meet the Engl. requirements by passing the exam. for the cert. of proficiency in Engl. of the Univ. of Cambridge.

#### D. Last Date for Receipt of Applications

Applicants for admission should be received before Sept. 1 of the yr in which admission is sought. Applicants by students from abroad should be submitted as early as possible and not later than July 1.

### SHERBROOKE

#### A. Admission to the second stage ('cours collégial') of the Arts programme in affiliated 'collèges classiques' and to the 'collège universitaire'

1. Cert. in terms of which requirements are expressed: no. 11.\*
2. Other certs. specified as acceptable equivalents for admission to the *collège universitaire*: nos. 13, 15.\*
3. General requirements: (a) *collège classique*: completion of the *cours secondaire* and success in the *matriculation* exam., no. 11.\* (b) *collège universitaire*: as for (a) above, or presentation of cert. no. 13 or no. 15.\* In addition, all candidates for admission to the *collège universitaire* must take the admission exam. of the college. A candidate for admission to the college *universitaire* who has not cert. no. 11, 13 or 15\* must take the admission exam. of the college.

#### B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1. Certs. in terms of which requirements are expressed: nos. 11, 13, 15, 16.\*
2. Other certs. specified as acceptable equivalents: equivalent certs. will be accepted.
3. General requirements: (a) birth cert., (b) cert. of vaccination; (c) 4 copies of a recent photograph; (d) letter of recommendation; (e) complete record of the last 4 yrs. of pre-university

studies. In all cases admission may be granted to a candidate presenting the *baccalauréat* in arts (often with advanced standing). One presenting a lesser qualif. may be required to take an entrance exam. set by the univ.

#### 4. Specific requirements:

**Arts** (course for adults offered by the univ.). Cert. nos. 11, 13 or 15\*, or the equivalent.

**Comm.** Cert. no. 11, or no. 15 (*science-mathématiques* or *science-lettres*)\*.

**Dance** *etc.* As for comm.

**Engm.** Cert. nos. 14, 16 or 17.\*

**Music** Cert. nos. 11 or 13\*, plus dipl. in music.

**Pedagogy** Cert. no. 12\* or 2 yrs. of the course in pedagogy leading to *Brevet 'A'*.

**Sci.** Cert. nos. 14, 16 (scientific) or 17.\*

5. Special courses for adults: the fac. of arts offers special evening and summer courses for adults in arts (see above). Minimum age for admission: 20 yrs.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

#### D. Last Date for Receipt of Applications

Applicants for admission should be received before Aug. 15 of the yr in which admission is sought.

### SIR GEORGE WILLIAMS

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 20.\*
2. Other certs. specified as acceptable equivalents: nos. 3, 4, 5, 7, 9, 12, 18, 22, 25, 30\*. The graduation dipl. of Sir George Williams High School. Other equivalent certs. will also be accepted, but students will not be accepted at the *cert. no. 24* level on the basis of Ontario grade XII (cert. no. 24\*) nor on completion of grade XI in Alberta or Saskatchewan. However, students presenting Ontario grade XIII (cert. no. 25\*), Alberta grade XII (cert. no. 29\*) or Saskatchewan grade XII (cert. no. 28\*) may be admitted at the *cert. no. 24* level.
3. General requirements: in addition to the specific requirements listed below, students entering the day div. must also present a satisfactory report from a high school principal. The univ. may at its discretion require certain students to take prescribed tests. Students whose mother tongue is not Engl. must show, on certain tests administered by the univ., that they have sufficient knowledge of the Engl. lang. to be able to follow a univ. programme conducted in that lang.
4. Specific requirements:
 

**Arts.** Cert. no. 20\*, or the equivalent, with an average of at least 60 per cent. on 10 papers, incl. Engl. lit. & composition.

\* See pp. 1528-1530

**Comm.** As for arts, but incl. Engl. lit. & composition, and algebra.

**Sci.** As for arts, but incl. Engl. lit. & composition, algebra, geom. and at least one sci.

5. Mature matriculation: persons over 21 yrs. of age who have not satisfied the technical requirements for high school graduation but who have the capacity to do univ. work are admitted as 'conditioned' undergrads. In arts, comm. or sci. (but not engin.) by fulfilling the special entrance requirements for persons over 21 yrs. of age, details of which may be obtained from the registrar.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no 21.\*

2. Other certs. specified as acceptable equivalents: none specified, but equivalent certs. will be accepted.

4. Specific requirements:

**Arts, comm., sci.** Students presenting as matric. certs. will, in general, be given credit in the 1st yr. courses for course, for subjs. completed. Owing to the special requirements of the curricula of the univ. it is not possible for a student to obtain complete 1st-yr. standing in this way. Deficiencies may be made up, however, during the remainder of the course provided that they are not too great and, further, that the student does the extra work necessary.

**Engin.** Students must have completed the 1st yr. of sci. or present cert. no. 21\* or its equivalent with the following subjs.: Engl. (lit. & composition); math. (algebra, trig., analytic geom.); general phys.; inorg. chem.; and one other subj.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

**U.S.A.** These certs. are treated as at the jr. matric. level: the Coll. Entrance Bd. Cert.; the Bd. of Regents Cert., State of New York; the graduation dipl. of accredited high schools.

**U.K.** Candidates who have 6 subjs. on the G.C.E. at the ordinary level are admitted to the 1st yr. of arts, sci. or comm. Credit towards the degree is given for subjs. passed at the advanced level.

#### D. Last Date for Receipt of Applications

Applica. for admission should be received before Aug. 24 of the yr. in which admission is sought.

### TORONTO

#### A. Admission at Junior Matriculation level

None.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. specified as acceptable equivalents: nos. 6, 8, 19, 21, 23, 27, 28, 29, 31.\* Other equivalent certs. will also be accepted. See also C below.

3. General requirements:

(a) A candidate for admission to the 1st yr. must present cert. no. 25\* or an equivalent cert., showing standing in one subj. from each of the following 5 groups, with an average of at least 60 per cent in the 9 required papers: (1) Engl.; (2) Latin, maths. (2 papers); (3) French, German, Greek, Italian, Latin, Russian, Spanish; (4) a lang. other than Engl., 2 of algebra, geom., trig., bot., chem., phys., zool.; (5) hist., music, a lang. other than Engl. (2 papers), maths. (one paper), sci. (one paper), geog.

(b) *Facility in the Engl. lang.* All candidates are required to submit evidence, acceptable to the univ., of facility in the Engl. lang. Submission of one of the following will satisfy this requirement: (1) standing in Engl. comp. (see B 3 (a) above) on cert. no. 25\* or other cert. recognised by the univ.; (2) the cert. of proficiency in Engl. issued by the Univs. of Cambridge or Michigan, or satisfactory achievement in the Univ. of Michigan English lang. test. (Details regarding these tests, including the arrangements for taking the Univ. of Michigan test in Toronto, may be secured from the registrar, Univ. of Toronto.) The univ. is also prepared to consider other evidence that may be submitted.

4. Specific requirements:

**Agric. (Ontario Agric. Coll.)** General requirements as in B 3 above, incl. maths. (any 2 papers), phys. and chem.

**Appl. sci. and engin.** General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem. with an over-all average of 64 per cent in the 9 required papers. For entry to the engin. sci. course candidates must have an over-all average of at least 70 per cent.

**Archit.** General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem.

**Arts.** General requirements as in B 3 above, plus specific requirements regarding choice of subjs. and required standing, varying for the honour courses.

**Comm. and finance.** General requirements as in B 3 above, incl. maths. (3 papers). Required average on 9 papers: 64 per cent.

**Dent.** General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem. (Note the 1st yr. of the gen. course in sci. will be taken as the pre-dental yr.)

**For.** General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem.

**Household sci.** Univ. of Toronto: general requirements as in B 3 above, incl. maths. (any 2 papers)—phys., chem. and trig.\* are

\* See pp. 1548-1550

recommended; Macdonald Inst. as for Univ. of Toronto except that chem. and one of bot., phys., zool. must be included.

**Med.** General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem. If metric standing in Latin is recommended.

**Music.** (a) Academic requirements: 4 subs. (i.e. at least 7 papers), exclusive of music, are required, including Engl., Latin or maths (2 papers), and another lang. if Latin is not chosen, with an average of at least 60 per cent in 4 academic subs. (b) Music requirements: candidates must satisfy either (1) or (2): (1) an entrance exam., given in Toronto by the fac. of music, as (2) one of the following complete sets of Royal Conservatory of Music of Toronto (or equivalent) cert.: (i) grade VIII piano or organ, grade II theory, and grade III harmony; (ii) grade VIII in an instrument (other than piano or organ) or voice, at least grade VI in piano or organ, grade II theory and grade III harmony (under item (ii), candidates may be admitted without grade VI piano or organ on condition that they pass it before entering and year); (iii) grade VI in an instrument (other than piano or organ) or voice, at least grade VI in piano or organ, grade II theory and grade III harmony; (iv) grade VI (practical portion only) in piano or organ and grade III harmony of R.C.M.T. or equivalent, with grade XIII music of the Ontario Dept. of Education.

**Nursing.** General requirements as in B 3 above, preferably incl. chem. and zool.

**Pharmacy.** General requirements as in B 3 (a) above, incl. maths. (3 papers), phys. and chem. If metric standing in Latin is recommended.

**Phys. and health educ.** General requirements as in B 3 above, preferably incl. chem. and phys.

**Sci. (pure).** General requirements as in B 3 above, incl. maths. (3 papers) and sci. (2 papers), plus specific requirements regarding choice of subs. and required standing, varying for the honour courses.

**Vet. med.** (Ontario Vet. Coll.). As for agric.

### C Students from Abroad

(a) Certs. are evaluated on the basis of the requirements stated above.

**U.S.A.** A U.S. high school graduation dipl. will not admit to any course. 1st-yr. coll. credits (a minimum of 30 semester hrs.) in the required subs. from approved institutions will be accepted as the equivalent of Ontario grade XIII (cert. no. 25\*). It is regretted that consideration cannot be given to applicants for admission to the facs. of med. and dent.

**U.K.** G.C.E. showing 5 subs., of which at least 2 must be passed at advanced level, or 4 subs., of which at least 3 must be passed, at advanced level. Most arts courses require standing in Latin or maths., and a lang. other than Engl.; for sci., or engin., advanced level standing is required in 2 of: maths., phys., chem.

**West Indies.** G.C.E. or School or Higher School Certs. on the same basis as G.C.E. Credits on the School Cert. are accepted as ordinary level passes in the G.C.E.; subsidiary passes in the Higher School Cert. as ordinary level passes in the G.C.E., and principal or main subs. passes on the Higher School Cert. as advanced level passes in the G.C.E.

**Hong Kong.** G.C.E. as above, or Univ. of Hong Kong Matric. Cert. on the same basis as G.C.E.

(b) Note requirement of cert. of faculty in the Engl. lang. See B 3 (b) above.

(c) A student coming directly from another country must give satisfactory evidence of ability to meet costs of tuition, bd. and room, books and incidentals.

### D. Last Date for Receipt of Application

Applications for admission from students outside Ontario should be received before June 1 of the yr. in which admission is sought. Applicants for entry to the gen. courses offered in the dept. of extension will be accepted until Sept. 1.

## WATERLOO

### A Admission at Junior Matriculation level

The Univ. offers a yr. of preparatory studies for admission to engin. only. A comparable prelim. yr. or 1st is available in the Univ. of St. Jerome's Coll., which is a federated univ. on the same campus.

1 Cert. in terms of which requirements are expressed no. 21.\*

2 Other certs. specified as acceptable equivalents: nos. 3, 5, 7, 9, 20, 26, 30\*, and completion of grade XI in Alberta or Saskatchewan.

#### 4. Specific requirements

**Arts** (St. Jerome's Coll.) (a) Matric. subs.: Engl., hist.; Latin or maths., one of: French, German, Greek, Italian, Latin, Spanish; 2 of: agric. sci., geog., maths., music, sci., another lang.; (b) required average: at least 60 per cent; (c) cert. of good character and morals.

**Engin.** Required average: at least 66 per cent. and evidence of proficiency in maths. and sci.

### B Admission at Senior Matriculation level

1 Cert. in terms of which requirements are expressed no. 25.\*

2 Other certs. specified as acceptable equivalents: nos. 6, 8, 21, 23, 27, 28, 29, 31.\*

3 General requirements: required average is at least 60 per cent on 9 papers.

#### 4. Specific requirements

**Arts.** Matric. subs.: Engl. (composition and lit.), another lang. (2 papers); and 5 other papers appropriate to the student's proposed major field of study.

\* See pp. 1538-1539

*Engl., sci.* Matric. subjs. : Engl. (composition and lit.); maths (3 papers); chem; phys.; and 2 other papers

5. Mature matric. : a student of mature age who has been away from formal educn for more than 2 yrs. and who does not possess the min. requirements for admission may apply to enter as an adult student. He may be required to write a qualifying exam.

#### C. Students from Abroad

(a) Certificates are evaluated in terms of the requirements stated above.

U.K. Certs. treated as equivalent to no. 25\* include the G.C.E. in at least 5 subjs. of which a must be at the advanced level, and the Scottish Leaving Cert.

U.S.A. For entry at the jr. matric. level, high sch. graduation recognized by the coll. entrance bd. of the region from which the student comes. For entry at the sr. matric. level, high sch. graduation plus an addnl. yr. of formal study in subjs. comparable to those listed in B 4 above.

(b) Students from areas where Engl. is not the common lang. must provide certified translations of academic certs. In addition, an applicant may be required to take a test of proficiency in the use of the Engl. lang.

#### D. Last Date for Receipt of Applications

Applics. for admission should be received by Sept. 7 of the yr. in which admission is sought.

### WATERLOO LUTHERAN

#### A. Admission at Junior Matriculation level

Admission at this level to the 'prelim. yr.' is limited to students from regions or countries where preparation for sr. matric. cannot be undertaken in secondary schools.

1. Cert. in terms of which requirements are expressed : no. 24.\*

2. Other certs. specified as acceptable equivalents : none specified, but equivalent certs. will be accepted.

3. General requirements : required average is at least 60 per cent.

4. Specific requirements :

*Arts.* Matric. subjs. : Engl.; hist.; Latin or maths; one of French, German, Greek, Italian, Latin, Spanish; one of agric., geog., maths., music, sci., another lang.

5. Mature matric. : students who are 21 yrs. of age or over, have been away from formal educn. for at least 2 yrs. and are unable to present the normal qualifs. for admission may be admitted to the adult special prelim. yr. programme.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. specified as acceptable equivalents : no. 6, 8, 21, 23, 27, 28, 29, 31\* or completion of the 1st yr. at Memorial Univ. of Newfoundland or the Univ. of New Brunswick or grade XIII in New Brunswick.

3. General requirements : required average : at least 55 per cent., preferably 60 per cent., in 5 subjs. (8 or 9 papers).

4. Specific requirements :

*Arts.* Matric. subjs. : Engl. (composition and lit.); another lang. (2 papers), Latin (2 papers) or maths (2 papers) or sci. (2 papers), and 2 other subjs. (2 or 3 papers).

5. Mature matric. : a student who is 21 yrs. of age or over, has been away from formal educn. at least 2 yrs. and has sr. matric. standing in Engl., another lang. and one other subj. may be admitted at the sr. matric. level. Students who are 27 yrs. of age or over and who give evidence of the required ability may be admitted even though they have not the normal matric. qualifs.

#### C. Students from Abroad

(a) Certs. are evaluated in terms of the requirements stated above.

U.K. For entry at the jr. matric. level the G.C.E. in at least 5 subjs. at the ordinary level, incl. Engl., another lang., and maths. or sci. For entry at the sr. matric. level : the G.C.E. in 5 or 6 subjs., at least 2 of them at the advanced level, and incl. Engl. lit., a lang. other than Engl., and either maths. or an approved sci.

U.S.A. For entry at the jr. matric. level, graduation from a recognized high sch., incl. Engl., another lang., and Latin or maths. or sci. at the grade XII level.

(b) All students whose mother tongue is not Engl. are required to submit evidence of proficiency in Engl. before admission to the univ.

#### D. Last Date for Receipt of Applications

Applics. for admission should be received before Sept. 7 of the yr. in which admission is sought.

Applicn. for admission as an adult special student must reach the registrar before June 30.

### WESTERN ONTARIO

#### A. Admission at Junior Matriculation level

None.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. specified as acceptable equivalents : equivalent certs. will be accepted. See C below.

3. General requirements : cert. no. 25\* or the

\* See pp. 1528-1530

equivalent with an average of at least 60 per cent. in 5 subjs (9 papers). Engl (lit & composition), Latin (2 papers) or maths (2 papers), another lang. (2 papers); and 3 other papers chosen to meet specific course requirements. When circumstances require restricted enrolment in any programme, preference will be given to candidates who have completed the secondary school programme in the normal 5 yrs.

The grade XIII (sect. no. 25\*) subjs. are: Engl. (lit. & composition), maths (algebra, geom., and trig. and statistics), hist., Latin (2 papers), Greek (2 papers), French (2 papers), German (2 papers), Spanish (2 papers), Italian (2 papers), chem., phys., bot., zool., geog., music. (Note that a 'subj.' may include 1, 2 or 3 'papers').

#### 4. Specific requirements

*Arts*, including *journalism, physical and health educn., secretarial sci., pre-theat.* Gen. requirements as in B 1 above.

*Bus. admin.* Matric. subjs. Engl.; another lang., maths. (2 papers); and 3 other papers.

*Home econ., nursing.* Matric. subjs. Engl.; another lang., Latin or maths. (2 papers), bot., chem., and zool.

*Music.* (a) Satisfactory results in an audition. (b) Matric. subjs. Engl.; French; Latin or maths (2 papers); music (grade VIII practical

and grade II theory or grade IV theory); and one other paper.

*Sci., pre-med., engin.* Matric. subjs. Engl.; another lang.; maths (3 papers); chem.; phys.

5. Mature matric. candidates over 21 yrs. of age with or without standing in Engl., another lang. and one addnl. paper may apply for admission. Their applications will be considered on their merits.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

*U.S.A.* Students with high school graduation dipl. should complete the freshman yr. in an accredited coll. in the U.S.A. before seeking admission to the univ.

*U.K.* The G.C.E. is accepted if it shows standing in 5 or 6 subjs. with at least 2 of them at advanced level. Subj. requirements are as outlined in B above, with advanced level subjs. appropriate to the course desired. For admission to sci. or engin., advanced level standing is required in chem., phys., and pure or appl. maths.

#### D. Last Date for Receipt of Applications

Applications for admission should be received before Sept. 1 of the yr. in which admission is sought.

\* See pp. 1548-1550

### (C) UNITED KINGDOM

I. *Qualifications needed for admission*, p. 1551

II. *Method of application*, p. 1504

#### I. QUALIFICATIONS NEEDED FOR ADMISSION

[This statement relates only to the admission of students proposing to take full courses for a first degree. For conditions relating to recognition of study at other univs. and admission for higher degrees, see pp. 889-890 and under the several univs., above. Provided that accommodation is available, students desiring to study in a univ. without intending to graduate may be admitted if they can satisfy the univ. authorities that they are qualified to profit by the course of study they propose to take.]

For details of the requirements for admission to individual univs., references should be made to the pages listed below.

Aberdeen (pp. 1585, 1588)  
Belfast (p. 1593)  
Birmingham (pp. 1554, 1554)  
Bristol (p. 1560)  
Cambridge (p. 1561)  
Durham (p. 1463)  
East Anglia (p. 1564)  
Edinburgh (pp. 1585, 1589)  
Exeter (p. 1585)  
Glasgow (pp. 1585, 1591)  
Hull (p. 1566)  
Keele (p. 1568)  
Leeds (pp. 1554, 1555)

Leicester (p. 1568)  
Liverpool (pp. 1554, 1557)  
London (p. 1569)  
Manchester (pp. 1554, 1558)  
Nottingham (p. 1574)  
Oxford (p. 1576)  
Reading (p. 1578)  
St. Andrews (pp. 1585, 1592)  
Sheffield (pp. 1554, 1559)  
Southampton (p. 1586)  
Sussex (p. 1584)  
Wales (p. 1583)  
York (p. 1583)



Candidates for admission to a univ. in the United Kingdom must have passed the appropriate entrance exam. for that univ. or an alternative exempting exam. The principal exams. (indicated by a number in this Appendix for the purpose of reference) are as follows:

1. Oxford Responsions (held for last time in 1960).
2. Cambridge Previous exam. (held for last time in 1961).

General Certificate of Education exams held by the following examining bodies:

- 3 Oxford and Cambridge Schools' Exams Board.
- 4 Univ. of Cambridge Local Exams Syndicate
- 5 Oxford Local Exams. Delegacy.
- 6 Southern Univs.\* Joint Board for School Exams. (continues G.C.E. exams. conducted up to 1956 by Univ. of Bristol).
7. Univ. of Durham.
- 8 Univ. of London
9. Joint Matric. Board of Manchester, Liverpool, Leeds, Sheffield and Birmingham.
10. Welsh Joint Education Committee.
11. Associated Examining Board
- 12 Preliminary exam. of the Scottish Univs. Entrance Board
13. Leaving Cert exam. of the Scottish Education Department
- 14 Senior Cert exam. of the Ministry of Education, Northern Ireland
- 15 Belfast matric exam
16. Univ. of Cambridge Local Exams. Syndicate's Oversea Cert. exams.: (a) School, (b) Higher School.
- 17 Army Special Cert. of Education exam.

The univs. also recognise certain exams. other than those enumerated above as qualifying for admission. These exams and the conditions affecting them are referred to in the text below under each univ. or group of univs.

# JOINT MATRICULATION BOARD OF THE UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD AND BIRMINGHAM

Secretary to the Board: J. A. Petch, MA LL.D.  
Manchester, 15.

1 Before admission to a degree course in one of the five univs. which constitute the Joint Matric. Bd., a student must satisfy: (a) the requirements of the bd. which are concerned with general education and (b) any special or depth requirements of the individual univ. concerned (see below, pp. 1554-1560). Completion of the requirements under (a) and (b) does not automatically give right of entry to a univ. To be accepted by a univ. a student must apply direct to the registrar of that

univ. Full information regarding the bd.'s requirements may be obtained from the sec. to the bd., 315 Oxford Rd., Manchester, 15.

A Unit further notice, the 'univ. entrance requirements of the Joint Matric Bd. will be satisfied by any one of the following qualifications. I. A General Cert. of Education which fulfils the prescribed conditions (see below) II. A pass in the bd.'s exam. for candidates of mature yrs. (see below) III. A pass in the bd.'s exam. for candidates who have been engaged in industry or commerce (see below) IV. One of the qualifications listed under section IV (see p. 1553) (the items in this list are subject to annual revision). V. Any qualification which satisfied the bd.'s requirements in force at the date the qualification was obtained

## I General Certificate of Education

3. The bd.'s univ. entrance requirements will be satisfied by a G.C.E. awarded by the bd. (or, (A) or (B) only), by one of the examining bodies referred to in para. 4) which shows: Either (A) a pass in 6 subjects which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths (para. 6) or an approved sci. (para. 7), (iv) at least 2 subjects at the advanced level, provided that (1) The requirements under (A) must be shown on not more than 3 General Certs. (2) The required subjects must be selected from the list given in para. 5, except that one, but only one, of certain 'technical' subjects may be incl. as a subject at ordinary level, whether passed at ordinary or advanced level. Details from the sec. (3) No subj. may be counted both at the ordinary and at the advanced level. Or (B) a pass in 5 subjects which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths (para. 6) or an approved sci. (para. 7), (iv) at least 2 subjects at the advanced level passed at the same sitting as at least one other of the 5 required subjects; provided that (1) The required subjects must be selected from the list given in para. 5 (2) No subj. may be counted both at the ordinary and at the advanced level. Or (C) passes, all at advanced level and at 1 sitting of the bd.'s exams., in general studies and in 2 other advanced subjects chosen from the list given in para. 5 below.

4. The G.C.E. of the following examining bodies will be accepted under the same conditions as the bd.'s General Cert., nos. 3-8, 10, and (costs gained in and after June 1959) 12: The requirements under para. 3 (A) and para. 3 (B) above may be fulfilled by a combination of costs issued by more than one examining body. Applicants from holders of a G.C.E. awarded by No. 11\* are given individual consideration if gained before June 1959.

5. The following subjects of the bd.'s G.C.E. exam. and the corresponding subjects in the exams. of any of the bodies referred to in para. 4, will be accepted for the purposes of para. 3: (1) general paper; (2) Engl. lang., (3) Engl. lit., (4) hist., (5) anc. hist. & lit. (may not be counted with hist.); (6) outlines of British govt.; (7) geog.; (8) econ.;

\* See col. 1

(9) scripture knowledge; (10) art; (11) hist. & appreciation of art (may not be counted with art); (12) music; (13) Greek & Roman lit. in translation (may not be counted with Greek and/or Latin); (14) Greek; (15) Latin; (16) French; (17) German; (18) Spanish; (19) Italian; (20) Russian; (21) Welsh; (22) spec. approved langs.; (23) maths.; (24) further maths.; (25) pure maths. with statistics; (26) pure maths.; (27) maths. & theoret. mechanics (counts as 2 advanced subjects but may not be counted with any of subs. 23-26); (28) phys.; (29) chem.; (30) phys.-with-chem. (may not be counted with any of the following: phys., chem., general sci., agric. sci., bldg. sci.); (31) bot.; (32) zool.; (33) bot. (may not be counted with bot. and/or zool.); (34) geol.; (35) general sci. I; (36) general sci. II (general sci. I and/or II may not be counted with any of the following: phys., chem., phys.-with-chem., bot., zool., agric. sci., bldg. sci.); (37) agric. sci. (may not be counted with phys., chem., phys.-with-chem., bot., general sci.); (38) physiol. and hygiene (may not be counted with zool. or bot.); (39) bldg. sci. (may not be counted with any of the following: phys., phys.-with-chem., general sci.).

Note—Passes at advanced level in (24) further maths. and in either (23) maths. or (25) pure maths. with statistics, whether gained at the same or at separate sittings, will count as passes in two advanced subs.; but (i) none of the four advanced subs. (23) to (26) will count with a mathematical subj. at the ordinary level, (ii) pure maths. (advanced) will not count with any other mathematical subj., (iii) pure maths. with statistics (advanced) will not count with maths. (advanced).

6. Any of the subs. (23)-(27) in para. 5 above will satisfy the requirement of maths. under para. 3 (A) (ii) and para. 3 (B) (ii).

7. Of the subs. listed in para. 5, nos. (28) to (39) (both inclusive) are 'approved scis.' for the purposes of para. 3 (A) (iii) and para. 3 (B) (iii).

8. The bd. will accept subs. of the Gen. Cert. exams. of examining bds. 3-8, 10 and 11\*, if it is satisfied that the syllabus of any such subj., even though it bears a different title, is substantially equivalent to a syllabus in one of the subs. listed in its regns. in its own Gen. Cert. exam.

## II. Examination for Candidates of Mature Years

9. This exam is to meet the needs of exceptional candidates permanently resident in the U.K. who have been unable to qualify at the normal time but show promise of obtaining more than ordinary success in a univ. course. The exam may be taken only by candidates who desire to proceed to an approved course in one of the constituent univs. Candidates must be not less than 23 yrs. of age on May 1 of the year of exam.

## III. Examination for Candidates who have been engaged in Industry or Commerce

10. Permission to enter for this exam. is granted only to candidates permanently resident in the U.K. who are not less than 19 yrs. of age on March 31 of the year of exam and desire to proceed to a degree course in one of the constituent univs., having been engaged in full-time industrial, technical or commercial employment for a period of at least 3 yrs.; candidates must also have attended systematic courses of instruction satisfactory to the bd. for a period of at least 3 yrs. and have gained at the end of the course a cert. or dipl. deemed satisfactory by the bd. Details from the sec.

## IV. Other Qualifications accepted by the Board

11. A candidate will be regarded as satisfying the bd.'s requirements if he holds any one of the following quals: (a) A degree conferred by an approved univ. after exam. (b) A cert. showing that the holder is a barrister called to the English bar or a solicitor admitted on the rolls after passing the final exam. of the Law Society (*for law only*). (c) Either (i) no. 12\* or the Scottish Cert. of Educn. exam. provided that the candidate passed at one sitting of one of these exams. in 5 subs. at the higher grade, such 5 subs. to include at least 1 subj. of each of groups I, II and III of the bd.'s former Sch. Cert. exam. (each of the subs. phys., chem., bot., zool. will be counted as one subj. if passed at the higher grade), or (ii) by a pass at not more than two sittings of no. 12\* or the Scottish Cert. of Educn. exam. (or a pass at one sitting of no. 12\* together with a pass at one sitting of the Scottish Cert. of Educn. exam.) in 4 subs. at the higher grade and a subj. at the ordinary grade, such 6 subs. to incl. passes in Engl., an approved lang. other than Engl., and maths. (or an approved sci.). (d) Either (i) no. 14\* provided that at one sitting after March 1, 1952, the candidate passed in Engl. lang., an approved lang. other than Engl., maths. (or an approved sci.) and 3 other approved subs., at least 2 of the 6 required subs. being passed at the advanced level, or (ii) no. 14\*, provided that the candidate has by means of this exam. fulfilled the demands of para. 3 (A) or (B) on p. 1553, for this purpose subs. passed with credit at ordinary level will be accepted as equivalent to subs. passed at ordinary level in a G.C.E. Subs. passed at advanced level in no. 14\* are subject to approval by the bd. (e) The Leaving Cert. of the Dept. of Educn., Republic of Ireland, provided that the candidate passed with hon. at one and the same sitting in 5 subs. approved by the bd., such subs. to incl. at least one subj. of each of groups I, II and III of the bd.'s former Sch. Cert. exam. (f) No. 17\*. (g) For the time being and subject to review, a dipl. in technol. awarded by a coll. in the U.K. approved for this purpose by the Natnl. Council for Technological Awards.

12. The following provisions apply to performances in Overseas Sch. Cert. and Higher Sch. Cert. exams if conducted by one of the bodies referred to in para. 4, or by the W. African Exams. Council or by the Sudan Exams. Council, (a) a *pass with credit* in a Sch. Cert. exam. or a *pass* in a subsidiary subg., (incl. 'subsidiary standard') in a Higher Sch. Cert. exam. will be accepted in lieu of a *pass* at the ordinary level in the G.C.E. exam. (a *pass* in the General Paper is not acceptable), (b) a *pass* at principal standard in a Higher Sch. Cert. exam. will be accepted in lieu of a *pass* in the corresp. subg. at advanced level in the G.C.E. exam. (Acceptance of a *pass* at principal standard in a specially approved lang. is subject to the bd's approval).

13. The bd. will exercise discretionary power in accepting certs. of having passed other exams. of a standard which it deems to be satisfactory for university entrance purposes. It may, however, require a performance above the minimum prescribed for the award of certain certificates.

### BIRMINGHAM

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1552) and (b) any relevant course requirements (see below).

Min. age for entrance to all facs. of the univ. is 17 yrs.

#### Course Requirements

**Sci.** Candidates for direct admission to the 1st year of a 1st degree course must have passed in 3 subjs. (at least 2 of which must be sci. subjs.) at advanced level of the G.C.E. exam. In special cases 2 advanced level subjs. only may be considered. These advanced level subjs. must constitute a suitable platform for the intended course.

#### Pure Science

**Maths.** 3 subjs., one of which must be maths. Of the other 2 subjs., only one need be a sci. subg. Another mathl. subg. would be useful. Phys. and gen. studies also suitable.

**Mathl. phys.** Candidates should apply for admission to maths. or phys.

**Phys.** 3 subjs., 2 of which must be phys. and maths.

**Chem.** Chem. and 2 other subjs., which must be phys. and maths. Applicants with biol. quals. (instead of phys. or maths.) will, however, be considered.

**Zool. and compar. physiol.** 3 subjs., one of which must be either biol. or zool. If chem. not passed at advanced level, alternative evidence of adequate knowledge of this subg. will be required.

**Bot.** 3 subjs., 2 of which must be (a) bot. or biol. and (b) chem.

**Genetics.** Normally students are admitted to hon. sch. of genetics at commencement of final yr. only, transfer being possible from hon. sch.

of zool. and comparative physiol. and bot. and each other schs. as prof. of genetics may determine in consultation with prof. of the other hon. sch. concerned. In exceptional cases admittance may be obtained prior to final yr., in which case 3 subjs., 2 of which must be zool., bot. or biol., must have been passed at advanced level at one and the same G.C.E. exam.

**Microbiol.** 3 subjs., 2 of which must be sci. subjs., preferably chem., phys. or maths.

**Bacteriol.** Chem. and biol. (or bot. and zool. in lieu of biol.)

**Geol.** 3 subjs., which may incl. geog. or gen. studies and which must incl. 2 sci. subjs. Phys. and chem. must be passed at least at ordinary level.

**Geog.** Geog. and 2 other sci. subjs. Gen. studies may be accepted in lieu of one of the other sci. subjs.

**Ant. studies.** Chem., phys. and biol. (or bot. or zool. in lieu of biol.) A sufficient knowledge of maths. is required.

**Med. biochem. studies.** Chem., phys. and biol. A sufficient knowledge of maths. is required.

**Physiol. studies.** Chem. and either phys. or maths. and one other sci. subg. A sufficient knowledge of maths. is required.

**Biochem.** 3 sci. subjs., normally chem., phys. and biol. (or bot. or zool.) at advanced level. Candidates with mathl. quals. will, however, be considered.

#### Applied Science

**Mech. engin., civil engin., electr. engin.** 3 subjs., 2 of which must be maths. & phys. with chem. at least at ordinary level.

**Chem. engin., metall. & minerals engin.** 3 subjs. must be chem., maths and phys.

**Note.**—There are sp. arrangements by which students who have taken arts subjs. as their main subjs. at sch., and who are qualified to enter upon an arts course in the univ., may obtain a univ. trg. in the scs., by entry to a prelim. yr. course prior to normal 3-yr. course for a degree in sci.; other students who have qualified for entry to a sci. course by normal, 'mature' or 'industrial' matric. may also be considered for entry to the prelim. yr. courses.

**Arts.** Candidates for direct admission to a degree course, who wish to qualify by means of the G.C.E., must normally have passed in at least 3 subjs. (general studies may be accepted as 1 of these 3 subjs.) at advanced level at one and the same exam., in compliance with the following dept. requirements:

(1) Degree in combined subjs., at least 2 of the 3 subjs. must be arts subjs. If Latin, French, German, geog., or maths. is to be offered in degree course the subg. concerned must have been passed at advanced level. Latin qualif. not required unless the subg. is to be offered for the degree.

(2) Sp. schs.: (a) *western & moral philos., theol. & archaeol.*: any 3 subjs.

(b) *Italian* : 3 arts \* subs. Latin must have been passed at ordinary level at least.

(c) *Russian* : 3 subs. of which one must be Russian and a second must be an appropriate arts \* subj.

(d) *Hist* : any 3 subs. Latin must have been passed at ordinary level at least.

(e) *French and Spanish* : 3 arts \* subs., one of which should be the subj. to be studied for degree course. Latin must have been passed at ordinary level at least.

(f) *Engl* : 2 of the 3 subs. should be arts \* subs., one preferably a lang other than Engl. Latin or Greek must have been passed at ordinary level at least.

(g) *German* : 2 of the 3 subs. must be arts \* subs., one of which must be German. No Latin requirements for admission.

(h) *Classics and Greek* : 2 of the 3 subs. should be Latin and Greek. Candidates who have not Greek at advanced level must be prepared to attend a spec. preparatory course for a yr before admission to the spec. sch.

(i) *Latin* : 3 subs., one of which must be Latin.

(j) *Geog* : 3 subs., one of which should normally be geog. No Latin requirements for admission.

(k) *Music* : any 3 subs., of which music should normally be one. No Latin requirements for admission. Certain conditions have to be fulfilled to the satisfaction of the prof. of music as to adequate power of performance on some musical instrument, etc.

(l) *Maths* : one of the 3 subs. must be maths. Some knowledge of phys. very desirable.

**MEDICINE** : Candidates for admission to the 2nd yr of med. or dent. must have passed in phys., chem and biol (or exceptionally bot. or zool.) at advanced level at the same exam. Such candidates should normally be 18 yrs. of age by Oct. 1 of yr. of admission.

**COMMERCE** : Candidates must normally have passed in 3 subs. at advanced level. Maths must have been passed at least at ordinary level.

**LAW** : Candidates should normally have passed in 3 subs. at advanced level.

**Note**—Higher and Sch. Cert. qualifs. equivalent to the qualifs. based on the G.C.E. will still be accepted by all facs.

#### Admission of Overseas Students

Applicns from overseas students to enter the univ. must be received by the registrar before April 1, and must be accompanied by testimonials regarding character, educn. qualifs. and financial standing. Students from overseas (incl. those from Australia, Canada, U.S.A.) are required to submit their applicns. through the appropriate govt. authority in London for their home country.

\* For the purpose of these regns. the following will be considered as arts subs.: all classical and mod. foreign langs., Engl. lang., Engl. lit., ant., mediev., and mod. hist., maths, art, music, geog., scripture knowledge, and econ.

(e.g. the High Commissioner for India or Pakistan, Egyptian Educn. Office) or the office of the Hd. of the Students' Branch, Dept. of Technical Co-operation, Sanctuary Buildings, Great Smith St., London, S W 1.

Intending applicants for admission should particularly note that applicns. by personal interview in the univ. will not in any circumstances be considered; all applicns. must be made in writing in the manner indicated above.

(a) *Admission to first degree courses* : In addn. to satisfying the general requirements and the course requirements, overseas candidates, whose native lang. is not Engl., must have passed either in Engl. lang. at the ordinary level in the G.C.E. exam, or in the exam for Cambridge Cert. of Proficiency in Engl., or in Engl. in an exam in their own country which is acceptable to the Northern Universities Joint Matric. Bd. for the purpose of matric.

(b) *Admission to postgraduate courses* : In addn. to satisfying all other requirements for admission to postgrad. courses, overseas candidates whose native lang. is not Engl. must provide evidence satisfactory to the univ. that they have an adequate knowledge of written and spoken Engl.

(c) *Special pre-admission course* : A spec. course will be arranged in late Sept. for overseas students admitted to 1st degree courses, to introduce them to the British way of life, and particularly to aspects of life in the univ. and city of Birmingham.

(d) *Tutor in English for overseas students* : A tutor will provide teaching in Engl. lang. for those overseas students who, after admission, require it.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

Overseas students : see also above under 'Admission of Overseas Students'.

#### LEEDS

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1554) and (b) any relevant course requirements (see below).

Min. age for admission is 17 yrs.

#### Course Requirements

The list below is restricted to formal requirements, further information and advice should be obtained from the registrar as to addnl. subs. which, in conjunction with the general and any course requirements, are considered as desirable in preparation for univ. courses in specified subs.

**Arts** *Greek*. (A)\* Greek (high standard) and (O)\* Latin (at least a pass).  
*Mod lang.*: candidates wishing to read for sp. studies degrees in French, Italian or Spanish or in a mod lang. group which includes one of these must have attained a pass at (O) in Latin.

**Russian**: (A) Russian or equivalent required for admission to the 3-yr degree course applicants who do not possess this qualif. may be considered for entry to the 4-yr course.

**Hist.** candidates must provide evidence of a reading knowledge of 2 langs other than Engl. One lang at (A) and the other at (O), or other evidence, is acceptable.

**Geog.** (A) geog. (high standard) required, and preferably passes in 2 other subs at (A). See under 'Sci. Geog.' below, for BSc scheme.  
**Eccon and Soc. Studies** No spec. requirements.

**Law** No spec. requirements

**Scr.** (Note: some modification of the requirements listed below is possible for candidates accepted for a period of study longer than the minimum possible for the award of a degree).

**Maths.** good performance at (A) in maths and further maths

**Phys.** (A) at a good standard in maths. and phys. required

**Chem.** (A) at a good standard in chem. and in other phys. or maths. (pure and appl.) required

**Geol.** advanced study in chem., phys. and/or maths.

**Geog.** (A) geog. (high standard) required as part of a good all-round performance based on 3 advanced level subs.; 1 of these 3 apart from geog. must be an approved sci. (O) maths. is required. See under 'Arts Geog.', above, for BA scheme

**Biochem.** (A) chem. (good standard) required (O) phys. and (O) maths. necessary

**Pharmacol.** (4 yrs) and **Pharmacy** (3 yrs.): (A) phys., and a good performance at (A) in chem., and in either biol. or zool. with a pass in bot.

**Psychol.** (A) in 2 sci. subs., (O) in maths.

**Technol.** (Note: some modification of the requirements listed below is possible for candidates accepted for a 4-yr instead of a 3-yr. degree course).

**Engin. (civil and mech.)**: good standard in maths. and other phys. or chem. at (A) required, a Higher Natnl. Cert. or equivalent.

**Engin. (electr.)**: good standard in maths. and phys. at (A) required, a Higher Natnl. Cert. or equivalent.

**Chem. engin.**: good standard at (A) in maths. and chem., and a pass in phys. (A) required.

**Mechan.** good standard at (A) required in maths., phys. and chem. If maths. is taken as a double sub. (e.g. maths. & theoret. mechanics in

the N.U.J.M.B. exam), either phys. or chem. may be dispensed with.

**Gen. engin.**: good standard at (A) in maths., phys. and chem. required

**Ceramics**: good standard at (A) in maths., phys. and chem. required

**Agric.** 4-yr hon. course in agric., agric. bot., and agric. chem.—(A) at good standard in the appropriate sub(s) expected 4-yr hon. course in agric. econ.—no additional requirements, satisfactory attainment in relevant arts subs. desirable 3-yr ordinary degree course—(A) chem. and bot. normally required **Farming Experience**: 12 consecutive months' work on an approved farm essential before commencing and yr. of BSc course (hons. or ordinary) in agric., some farming experience desirable before entry to hon. degree course in the agric. sci.

**Food sci.**: (A) in maths., phys. and chem. with high standard in either phys. or chem. normally required for 4-yr. hon. course.

**MED. MB ChB**: maths at (O) necessary.

**DPH: BChD**: knowledge of maths equivalent to that of (O) level in a G.C.E. exam necessary.

### Exemptions

In certain circumstances, applicants for admission to courses leading to the degree of BSc or to the degrees of MB ChB and BChD may be exempted by the bds of the facs concerned from 1-yr courses and corresp. exams if they possess qualifs. obtained in the G.C.E. exam or other equivalent exam. of a sufficiently high standard. Subject to a min. attendance in this univ. of 2 yrs. and to the approval of the senate, members of other univs. which require residence as a condition of graduation may be permitted to count their studies and exams (other than the final exam.) towards graduation in Leeds.

### Admission of Overseas Students

Applicants of foreign nationality, whether resident overseas or in the British Isles, should make appln. through the embassy or educ. bureau of their govt. or through the British Council. Applicants from persons resident outside the British Isles must be received before May 31.

Applicants whose native lang. is not Engl. must, if they wish to read for a fiat degree, have obtained at least the pass mark in each of the following parts of the exam. for the Cert. of Proficiency in Engl. of the Univ. of Cambridge: oral dictation, reading and conversation, *written*—(i) use of Engl., (ii) Engl. lang. (composition and a passage of Engl. with lang. questions) Applicants will, however, be considered from overseas students with equivalent qualifs. in Engl., e.g. a credit in Engl. in the Overseas Sch. Cert. of the Univ. of Cambridge or a pass at the ordinary level in Engl. in the G.C.E. exam. of the Univ. of London.

\* (A)=advanced level; (O)=ordinary level

*Method of Application*

and

*Last Date for Receipt of Applications*

See pp. 1504-1507.

Overseas students: see also above under 'Admission of Overseas Students'.

**LIVERPOOL**

Before admission to a degree course in the Univ. a student must satisfy (a) the general requirements of the Northern Univs. Joint Matric. Bd (see above, p. 1552) and (b) any relevant course requirements (see below).

No person may register as a student who will not have attained the age of 17 yrs. on or before Dec. 31 in the yr. for which entry is sought.

*Course Requirements*

**ARTS.** Applicants for admission to a course leading to the degree of BA must have passed in Greek or Latin or maths. at the ordinary or advanced level in the G.C.E. exam.

Candidates who have qualified in maths. but not in Greek or Latin, will be required: (a) For the degree of BA in gen. studies, to take not less than 5 courses of the 9 required from the following subsj.: 'geog., econ., econ. hist., sociol., pol. theory & instn., psychol. and philos.' (b) For the degree of BA in spec. studies to present themselves in any one of the following 6 subsj.: 'geog., econ., soc. sci., pol. theory & instn., psychol., philos.'

**ARCHT.** It is desirable that applicants for entry to the sch. of archit. present 3 subsj. at advanced level in the G.C.E. exam. They must, in addition, submit evidence of ability in art.

**COMM.** For admission to courses leading to BCom there are no requirements addnl. to those of the Jt. Matric. Bd (see above, p. 1552).

**SCI.** The amount of knowledge assumed as a basis for introductory courses will be as follows, in terms of the syllabuses given in the Joint Matric. Bd. publicn. *General Cert. of Educa.*, 1961:

**Pure maths.** Maths. (A)\* or further maths. (A) or pure maths. with statistics (A) or pure maths. (A) Maths. (A) and further maths. (A) are preferred.

**Appl. maths.** Maths. (A) or further maths. (A) or pure maths. with statistics (A) or pure maths. (A) plus phys. (A)\* Maths. (A) and further maths. (A) are preferred.

**Phys.** Phys. (A).

**Chem.** Chem. (A).

**Zool.** Nil.

**Bot.** Nil.

**Geol.** Nil.

**Exemption.** Exemption from the 1st yr. of a course of study in subsj. which are to be presented at the subsidiary, normal or higher standards,

may be granted by the bd. of the fac. to candidates who have passed in the G.C.E. exam. in 3 subsj. at the advanced level and have obtained a standard deemed to be satisfactory in the subsj. concerned. These 3 advanced level subsj. need not necessarily be all scientific subsj. A standard higher than pass will be demanded in the 3 subsj. for which exemption is claimed. The syllabuses in terms of advanced level subsj. which are required for entry into the 2nd yr. of study are as follows:

**Pure maths.** Further maths. or maths. plus further maths. Pure maths for students taking subsl pure maths.

**Maths. (pure and appl.)** Further maths. plus phys. or maths. plus further maths. Pure maths. with statistics may be considered in place of maths. or further maths.

**Phys.** Maths. plus phys. or further maths. plus phys.

**Chem.** For students taking higher chem.—chem. plus phys. and maths. or further maths. or bot. or zool. or biol. or geol. Chem. for students taking normal or subsidiary chem.

**Bot.** Bot. (biol. may be considered).

**Zool.** Zool. (biol. may be considered).

**Geol.** Geol. (geog. may be considered).

Applicants proposing to satisfy univ. entrance requirements by means of passes in general studies and in 2 other advanced subsj. may find it difficult to read for an hon. degree in some schs. of the fac. in 3 yrs.

**MED.** There are no spec. addnl. requirements for entry to the fac. of med. It is not necessary for candidates to have taken sci. subjects at advanced level in the G.C.E. exam., but it is advisable that phys. and chem. should have been studied up to ordinary level, since the 1st MB courses are designed on the assumption that students have an elementary knowledge of these subsj.

**Exemption.** Passes at advanced level in phys., chem. and biol. (or bot. and zool.) may entitle a candidate to exemption from the corresp. courses and exam. of the 1st MB. A pass at advanced level in zool. will also be accepted as grounds for exemption from the courses of study and exam. of the 1st MB biol. provided passes at the advanced level in chem. and phys. have also been obtained. Every endeavour is made to admit all eligible candidates direct to the 2nd yr. of studies, but occasionally the number of eligible candidates exceeds the number of vacancies. Those who cannot secure admission to the 2nd yr. and those with partial exemption, are offered opportunities of attending courses of instruction in other facs. to broaden their general educn.

**DENT. SURG.** There are no spec. addnl. requirements for entry to the sch. of dent. surg., but it is desirable that phys. and chem. should have been studied up to ordinary level in the G.C.E. exam., as the 1st-yr. course for the BDS is designed on the assumption that students have an elementary knowledge of these subsj.

\* (A) = advanced level

**Exemption.** Candidates who have passed at advanced level in phys., chem., biol. or zool. are eligible for exemption from the corresp. courses and exams for the 1st BDS. If a candidate has passed in all these subs. at advanced level, he is eligible to commence and-yt. studies.

**LAW.** The bd. of the fac. will not regard with favour any applicant intending to become a solicitor or a barrister who, at the date of entry into the fac., does not possess the qualif. for exemption from the prelim. exam. of the Law Society or for admission as a student into one of the Inns of Court, as the case may be. Whilst not prescribing an exam. pass in Latin as an absolute essential, the bd. of the fac. regards the lack of a working knowledge of it as a handicap, particularly for the study of Roman law for the inter LL.B. course. Consequently, it is advisable for prospective applicants to acquaint themselves with the requirements of the appropriate professional body.

**ENGINEERING.** Courses in the fac. of engin. are designed on the assumption that students have some previous knowledge of pure and appl. maths., phys. and chem. Candidates are recommended to present in the G.C.E. exam. at the advanced level (c) maths. plus further maths. plus phys., (b) maths. plus phys. plus chem., or (c) maths. plus phys. plus 1 other subj. Where it is possible to present maths. with different alternatives, it is strongly recommended that an alternative which includes theoret. mechanics should be presented. All candidates are strongly recommended to study chem. to at least the ordinary level of the G.C.E. For admission into the dept. of metall., it is recommended that candidates present combination (b). Applicants from candidates with other suitable combinations of subs. will be considered.

All students entering the fac. are potential honours candidates. Separation into ordinary and honours degrees normally occurs at the end of the penultimate yr. of the course.

**Exemption.** The bd. of the fac. will be prepared to consider for exemption from the 1st yr. of study and the inter. BEng exam. candidates who have passed the exam. for the G.C.E. and whose performance in 1 of the preceding combinations of subs. is satisfactory to the bd. of the fac. Candidates who have passed the G.C.E. exam. but have not reached a sufficiently high standard for exemption from the 1st yr. of study and inter. BEng exam. may be considered for such exemption, provided that they satisfy the examiners in pure maths. and appl. maths. separately in the inter. exam. before entering the univ.

**PHY. SCI.** The bd. of the fac. requires applicants to have attained a standard not less than that of a pass in chem. at the advanced level of the G.C.E., and a standard not less than that of a pass in phys. at the ordinary level of the G.C.E.

**Exemption.** Candidates who have passed the G.C.E. at the advanced level, or an equivalent exam. at a similar standard, in any of the subs.

\* The attainment of at least Sch. Cert. credits, standard in the relevant subj., will continue to be accepted until further notice.

of phys., biol., bot. and zool. are eligible for exemption from the corresponding courses of study and exams. of the 1st BVSc exam. A pass in biol. at the advanced level gives exemption from both bot. and zool.

#### *Admission of Overseas Students*

Overseas students must apply for admission to the fac. or dept., with the exception of students from India and Egypt, who apply for admission through the following official bodies: *India*—the Educn. Office of the High Commissioner for India, Aldwych House, London, W.C.2. *Egypt*—United Arab Republic Cultural Centre, 4 Chesterfield Gardens, Park Lane, London, W.1.

Applicants from overseas students should be received by Dec. 31, and must be accompanied by detailed references certifying as to character and a detailed record of educn. qualifs. No overseas student may be registered for entry upon a degree course until he has satisfied the entrance requirements of the N.U.J.M.B. (see above, p. 1552) and has admission has been approved by the senate. Overseas students must forward with their application for admission a cert. of proficiency in written and spoken Engl., and must satisfy the bd. of the fac. concerned that they have a knowledge of Engl. sufficient for undertaking their proposed course of study. Except by spec. permission of the senate, students normally resident outside Gt. Britain will not be admitted to the univ. unless assured of adequate financial support.

#### *Method of Application and*

#### *Last Date for Receipt of Applications*

See pp. 1594-1597.

Overseas students. see also above under 'Admission of Overseas Students'.

### MANCHESTER

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Northern Univs. Joint Matric Bd (see above, p. 1552) and (b) any relevant course requirements (see below).

Min. age for admission to the univ. is 16 yrs. for men, 17 yrs. for women.

#### *Course Requirements*

Students entering for the following degree courses must have reached the ordinary or a higher level in a G.C.E. exam. in the subjects named below or give evidence of having attained an equivalent standard.\*

Hons. schs. in arts (except archt., town & country planning, pol. & mod. hist., mod. lit., with econ. & pol., philos., psychol., geog., Oriental studies, bibl. studies, maths. & philos., drama, American studies)—Latin (or Greek in case of

hons. schs. of Engl., German, Russian, German & philos., Engl. & philos., Engl. & hist. of art, Engl. & drama, German & drama, or math.\* in case of hons. sch. of math.) unless prepared to devote 4 yrs. to the course. The requirement of Latin may be waived for students entering by means of mature matric.

#### Exemption

The 1st yr. of a degree course is an integral part of the course; in spec. cases, however, students may be admitted to the 2nd or subsequent yr. if they have satisfactorily attended relevant courses at another approved univ.

**ARTS.** Students entering an hons. degree course may be exempted from attendance and exam. in one course of inter. grade, if they have passed sufficiently well in the relevant subject at the advanced level in the G.C.E. exam. A standard considerably above the pass mark is required.

**MED AND DENT.** Candidates who have been accepted for admission to the course for the degrees of MB ChB and who have passed in chem. or phys. or zool. or biol. at the advanced level in the G.C.E. will be exempted from the corresponding separate subj. or subjs. in the 1st MB ChB exam.

Candidates entering the course for the BDS who have passed in chem. and phys. and zool., or biol., at the advanced level in the G.C.E. exam., may be exempted from the 1st BDS exam.

#### Admission of Overseas Students

Overseas candidates should apply for admission direct to the univ. or through the office of their high commissioner, embassy or consulate in the U.K.

#### Method of Application and

#### Lat. Data for Receipt of Applications

See pp. 1594-1597.

Overseas students' see also above under 'Admission of Overseas Students'.

### SHEFFIELD

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1552) and (b) any relevant course requirements (see below).

No student under the age of 17 may be admitted to a degree or dipl. course except with the spec. permission of the senate.

All students must be medically examined when they enter the univ.

#### Course Requirements

**ARTS.** Students must obtain a sufficiently high grade in at least 2 (3 for hons. math.) subjs. at

advanced level in the G.C.E. exam. With the exception of foreign students, who may be allowed to substitute a course in Engl., every candidate for the degree of BA must incl. a lang. other than Engl. in the 1st yr. of the course. A knowledge of Latin is not compulsory for students who wish to read for a general degree, but a qualif. in Latin is required for entry to hons. schs. of classics, Engl., French, Spanish, hist. Inter. courses for beginners are available in ant. hist., archæol., biol. hist. & lit., econ., philos., psychol. The following inter. subjs. can be started from the beginning in the univ.: anc. hist., philos., econ., archæol., biol. hist. & lit., psychol., med., under certain conditions, Spanish and Greek. Before admission to an inter. course in any other subj., a candidate must provide evidence of his proficiency up to at least ordinary level in the G.C.E. exam.

**ECOE AND SOC STUDIES.** Hons. students must obtain a sufficiently high grade in at least a specified subj. at advanced level in the G.C.E. exam. For the gen. degree (on which hons. may be awarded), there are no spec. course requirements.

**ENGINE.** For admission to the 3-yr. degree courses in civil, mech., elect. engin., engin. with business studies, mining, or fuel technol. & chem. engin., applicants should normally have passed at a satisfactory standard the advanced papers of the G.C.E. in pure & appl. math., phys. and one other subject (chem. in the case of fuel technol. & chem. engin., preferably chem. in the case of mining). Candidates who have complied with the univ. entrance requirements of the Jt. Metric Bd. (see above, p. 1552), but who have not attained a standard in these subjs. high enough to satisfy the course requirements, may be allowed to take an entrance exam. in the univ. or they may be admitted to a prelim. course of 1 session's duration.

**LAW.** Passes needed at a sufficiently high grade in 2 approved subjs. at advanced level in G.C.E. exam.

**MED.** Applicants should normally have reached at least the ordinary level in the G.C.E. exam. in the subjs. of chem. and phys., and preferably also biol. Exemptions from the 1st MB ChB, or 1st BDS, may be gained if an applicant has reached a suitable standard at advanced level in the G.C.E. papers, or passed the inter. BDS exam. of any univ. in chem., phys., and either biol. or zool. or bot., or has passed the 1st MB or 1st BDS exam. of an approved univ.

**METALL.** Applicants for admission to degree courses in metall., glass or refractories technol. should have obtained a sufficiently high grade in math., phys. and chem. in the G.C.E. exam. at advanced level. A candidate who has passed the advanced level papers in these 3 subjs. at a suitable standard may be deemed to have passed the inter. exam. in them and be admitted to the 1st yr. of the course for the degree with hons.

\* A pass at the advanced level in 'maths. & theoret. mechanics' will be accepted.



**PUNE SCI.** Intending students should have obtained a sufficiently high grade (for gen. degree, at one sitting) in 3 (2 for biochem., physiol., geog. hon.) approved subj. at the advanced level of the G.C.E. (a student desiring to enter a special sch. may be admitted to the 1st (post-inter) yr. of the hon. course if he has reached an approved standard in the course requirement subj.) For the gen. degree of BSc exemption from the inter. exam. is not granted in respect of passes in a G.C.E.

**Note.**—Higher and Sch. Cert. qualifs. equivalent to the qualifs. based on the G.C.E. will still be accepted by all facs.

#### *Admission of Overseas Students*

Students from British colonial territories, and from Burma, Ceylon, Egypt, Ghana, India, Iran, Iraq, Jordan, Nigeria, North Borneo, Pakistan, Sarawak, Saudi Arabia, Somali Republic, Sudan, Syria, Thailand or Turkey should apply for admission through the appropriate representative of their country in London.

Candidates from overseas (other than from the countries listed in the preceding paragraph) must apply for admission direct to the registrar of the univ. by Dec. 31 for entry the following Oct.

Students whose mother tongue is not English may be required to pass a test in Engl. before admission to the univ.

No overseas student will be allowed to attend any course unless the result of a med. exam., conducted at entry by the univ., is certified as satisfactory by the univ.'s med. officer.

#### *Method of Application*

#### *Last Date for Receipt of Applications*

See pp. 1594-1597

**Overseas students.** see also above under 'Admission of Overseas Students'

### **BRISTOL**

'The univ. holds no matric. or entrance exams.'

#### *General Requirements*

The following are eligible for matric. (min. age 17 yrs., but see also course requirements, below):

(1) Grads. of univs. in the United Kingdom or other approved univs.

(2) Holders of First and/or Higher Sch. Cert. fulfilling regts. in force before the inception of the General Cert. of Educn. (Holders of certis. awarded on No. 15\* will normally be required to satisfy requirement (3) below, counting a credit in a Sch. Cert. or a pass in a subsidiary subj. in a Higher Sch. Cert. exam. as equivalent to an ordinary level pass, and a pass in a principal subj. in a Higher Sch. Cert. exam. as equivalent to an advanced level pass in a G.C.E. exam.)

(3) Holders of a G.C.E. awarded by sec. 3-11\*, provided that the cert. shows either scheme A (6 subs.)—a pass in (a) Engl. lang., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj., and 3 other subs. chosen from the approved list of subs.; and provided 2 of the 6 subs. are passed at the advanced level, or scheme B (5 subs.)—a pass in (a) Engl. lang., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj. and 2 other subs. chosen from the approved list of subs., provided that 3 of these subs., incl. 2 at the advanced level, are passed at one and the same sitting. These 3 subs. must not all be taken from the same group.

**Subjects approved for matric.** Group I. (1) Engl. lang.; (2) Engl. lit.; (3) anc. hist. or anc. civilization or Greek civilization; (4) med. & mod. hist.; (5) geog.; (6) econ.; (7) music; (8) art; (9) religious knowledge; (10) Greek; (11) Latin; (12) French; (13) German; (14) Spanish or any other approved lang. Group II. (15) maths. or addnl. maths. or pure maths. or pure & appl. maths., (16) appl. maths. (may not be taken with pure & appl. maths.), (17) phys.; (18) chem.; (19) phys. with chem. (may not be taken with either phys. or chem.); (20) general sci. or addnl. general sci.; (21) bot.; (22) zool.; (23) biol. (may not be taken with either bot. or zool.); (24) genl.; (25) geog.

No subj. may count at both ordinary and advanced levels.

Either maths. or pure maths. or appl. maths. or pure & appl. maths. will satisfy the requirements of maths. under regts. for schemes A and B.

**Subjs.** (17) to (25) inclusive are approved sci. subs. for the purposes of matric. under schemes A and B.

A pass in Engl. lit. at ordinary or advanced level does not meet the requirement of an ordinary level pass in Engl. lang.

Individual consideration may be given to candidates who do not precisely satisfy the requirements under para. (1) above but who do fulfil the requirements of other matriculating authorities in England or Wales and satisfy fac. requirements.

(4) Candidates for admission to the fac. of engin. who have been engaged for a yrs. in industry or commerce and have attended courses for at least 2 yrs. (3 yrs. if seeking exemption from inter.) and who have ordinary level Engl. lang. in G.C.E. exam. and either Ordinary National Cert. or Higher National Cert. of outstanding merit or equivalent.

The following may be declared eligible for matric.:

(a) A candidate educated elsewhere than in the United Kingdom, on his submitting evidence of having passed exams. equivalent to those qualifying for matric. at Bristol and, if necessary, evidence of ability to follow instruction given in Engl.

(b) A candidate for a res. degree on submitting evidence of sufficient qualifs. for conducting original res.

\* See p. 1552.

(c) In exceptional circumstances, a candidate over 23 yrs. of age on submitting evidence of previous education and attainments.

(d) Barristers-at-law and solicitors of the supreme court

#### Courses Requirements

**ARTS.** All candidates for admission must be 17 yrs. and 9 mos. of age. In addition they must hold the following exam. qualifs.

*For BA (gen. or spec.).* A pass at ordinary or advanced level in Latin or classical Greek. Candidates who are natives of Arabic-speaking countries and who have not reached the requisite standard in Latin or Greek, but have reached a recog. equivalent standard in classical Arabic, may, on the recommendation of the bd. of the fac. of arts, be accepted for admission to the fac. Such candidates will be admitted only if they are qualified to read in certain spec. schs. as determined by the bd. of the fac.

*For BA spec. in econ., econ. & acctg., econ. & pol., geog., hist. & econ., philos., philos. & econ., philos. & math., philos. & psychol., and for the curriculum in modern studies for gen. degree of BA.* A pass at or above ordinary level in either maths. or a classical lang.

**LAW.** Candidates are required to have passed in Latin at the ordinary or advanced level

#### Exemption from First-Year Courses and Exams, and Entry to Certain Special Courses

**ARTS and LAW.** No inter. course or exam. in these facs.; no exemptions are granted.

**SCI.** All candidates for admission to the fac. of sci. are required to qualify for exemption from the inter. course and exam. and for direct entry into stage I of an hon. course for the gen. or spec. degree. Entry to the inter. course has been suspended, although in exceptional circumstances a candidate may be required to spend a yr. on work preparatory to admission to an hon. course. Candidates seeking exemption from the inter. BSc exam. must be 17 yrs. and 9 mos. of age and must have passed in the G.C.E. exam. in 3 mathematical or scientific subjs., of which a must have been taken at the advanced level. Only those subjs. listed in group II of the subjs. approved for matric. (see above) are accepted for this purpose. *BSc(DownSci):* a candidate seeking entry to the curriculum for this degree must have obtained advanced level passes in chem. and in either bot. or zool. or biol. or phys. All students entering the curriculum are required to have some previous knowledge of phys. Acceptance into a spec. school will depend on a candidate's performance in the advanced level exam. for the G.C.E., on the report from his present school and, for most depts., on the result of an interview. The minimum requirements for entry into the various spec. schools are normally good passes at the advanced level in the following subjs.:

*Anat.* Biol. and either chem. or phys.

*Biological chem.* Chem. and phys. and (a) bot., biol., maths. or zool. if either bot. or zool. is to be taken as an ordinary course, or (b) biol. or zool. if physiol. is to be taken as an ordinary course.

*Bot.* Any 2 sci. subjs. If chem. is not one of them, a candidate should have a background knowledge of the subjs. to ordinary level although an exam. pass is not necessary.

*Chem.* Chem., phys. and either maths. or biol. subjs.

*Geog.* At least 2 subjs. from the group biol., bot., chem., geog., geol., maths., phys., zool. A knowledge of maths. to ordinary level is expected.

*Geol.* At least 2 subjs. selected from the following list: bot., bot., chem., geog. or geol., maths., phys., zool.

*Maths.* Pure and appl. maths. as separate subjs. and a 3rd subjs., preferably phys.

*Microbiol.* At least 2 subjs., one from each of the following groups: (a) chem., maths., phys., (b) biol., bot., zool.

*Phys.* Maths. and phys. and in addition a background knowledge of chem.

*Physiol.* Chem. and either zool. or biol.

*Psychol.* Any 2 sci. subjs.

*Zool.* Any 2 sci. subjs. If chem. is not one of them a candidate should have a background knowledge of the subject to ordinary level although an exam. pass is not necessary.

**M.D. (incl. dent. surg. and vet. sci.)** Candidates seeking exemption from the 1st MB ChB exam., the 1st BDS or LDS exam., or the 1st BVSc exam., must be 17 yrs. and 9 mos. of age and must have passed in phys., chem. and biol. (or bot. and zool.) at the following standards:

*Phys.* pass at ordinary or advanced level or (vet. sci. only) good pass in ordinary level exam.

*Chem.* pass at advanced level.

*Biol.* pass at advanced level, or pass in zool. at advanced level with pass in bot. at ordinary level (or pass in bot. at ordinary or advanced level in advanced level exam.)

**ENGINEERING.** Candidates seeking exemption from the inter. exam. must be 17 yrs. and 9 mos. of age and must have passed *either* at advanced level in pure maths. and in appl. maths. and at ordinary level in phys., *or* at advanced level in maths. (pure or appl. or pure & appl.) and in phys. Candidates should also have studied chem. to at least the ordinary level.

#### Method of Application

and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

#### CAMBRIDGE\*

To become an undergrad. member of the univ. a student must first be admitted to a coll. or to Fitzwilliam House. Appln. should be made on

\* *Late note.* A new scheme for the regulation of admissions to the men's colls. at Cambridge will come into operation for the 1964 entry.

forms obtainable from the tutor for admissions of the chosen coll. (from the sec. in the case of Gorton and Newnham Colls.). It is advisable to apply more than one yr. beforehand. Candidates from overseas may obtain information and advice from the adviser to overseas candidates for admission, 17 Silver St., Cambridge.

Applicants for admission must sat be submitted through the U.C.C.A.'s central office (see p. 1507).

Admission to a coll. secures admission to the univ., but no student can be admitted to a coll. unless he has satisfied the exam. requirements for matric. in the univ. of which details are given below. Completion of these requirements is not by itself a sufficient qualif. for admission to a coll., which is competitive.

There is no min. age for admission to a coll.

Many colls. have entrance exams., held once a yr., though they may admit persons (particularly overseas candidates) who have exceptional qualifs. without requiring them to take an entrance exam. Candidates for coll. scholrs. may secure admission on the results of the scholr. exam. even if they do not obtain a scholr. or exhibition. Details of coll. entrance and scholr. exams. are given in a sp. number of the *Cambridge Univ. Reporter* published annually in May and obtainable (price 6d.) from the univ. press.

#### Exam. Requirements for Matriculation

A candidate for admission will satisfy the exam. requirements for matric. if he has, in one or more exams. for the G.C.E., held by nos. 3-11\*, passed in (a) the Use of Engl., (b) 2 langs. other than Engl., (c) an approved mathematical or scientific subj., (d) one other approved subj. The candidate must have passed 2 of the subjs. under (b), (c) and (d) at advanced level, unless he holds a coll. open scholr. or exhibition. A pass in the Use of Engl. may not be counted if it was obtained more than 12 mos. before the date of the exam. in which the candidate first obtained passes in one or more subjs. at advanced level or obtained a coll. open scholr. or exhibition. A pass in the univ. supplementary exam. in the Use of Engl., or in papers prescribed as alternatives by the matric. bd., is accepted in place of G.C.E. Use of Engl., and a pass in the univ. supplementary exam. in Latin is accepted as a pass at ordinary level in a lang. other than Engl.; these supplementary exams. are held twice a yr. in Cambridge.

A candidate can alternatively, until Oct. 1, 1965, satisfy the exam. requirements for matric. if he has in, one or more exams. for the G.C.E. held by nos. 7-11\*, passed in: (a) Engl. lang., (b) Latin or classical Greek, (c) an approved mathematical or scientific subj., (d) 2 other approved subjs. The candidate must have passed 2 of the subjs. in (b), (c) and (d) at advanced level, unless he holds a coll. open scholr. or exhibition.

A candidate will be deemed to have satisfied the ordinary level exam. requirements for matric. if he has passed (in the G.C.E. subjs. specified above)

in one or more exams. for certain certs. other than G.C.E. These certs. and the prescribed standards are: no. 12\*, pass at lower standard; no. 13\*, pass in ordinary grade (a pass in higher grade is deemed to be a pass at advanced level); no. 14\*, pass at ordinary level (pass at advanced level is accepted as such); no. 16 (a)\*, pass with credit or 'very good'; no. 16 (b)\*, pass in a subsidiary or principal subj. (pass in a principal subj. is deemed to be pass at advanced level). Also Sch. Cert. awarded by West African Exams. Council, pass with credit or 'very good'; Leaving Cert. of Dept. of Educn., Dublin, pass with hon.; cert. of having passed in certain subjs. in the matric. or entrance exams. of Univ. of Dublin, Queen's Univ. of Belfast or National Univ. of Ireland; Ceylon Sr. Sch. Cert. or Ceylon General Cert. of Educn., pass with credit.

#### Special Provisions

*Asia, Africa, the W. Indies, Central and S. America.* Candidates from Asia, Africa, the W. Indies, Central or S. America may be deemed to have satisfied, or partly to have satisfied, the exam. requirements for matric. on their performance in exams. not specified above if they have passed in: (a) Engl. lang., (b) any other lang., (c) an approved mathematical or scientific subj., (d) 2 other approved subjs.

*U.S.A.* A candidate educated in the U.S.A. who has taken the tests of the College Entrance Exams. Bd. is deemed to have satisfied the exam. requirements for matric. if he has attained in the following tests a standard approved by the matric. bd.: (a) the scholastic aptitude test (verbal and mathematical sections), (b) achievement tests in (i) Engl. composition, (ii) 2 langs., (iii) one of the following: biol., chem., phys., inter. math., advanced math.

*India and Pakistan.* A candidate who has attained the 1st class in the inter. exam. in arts and sci., or the 1st or 2nd class in the exam. for the BA or BSc. in an approved univ. of India or Pakistan, is deemed to have satisfied the exam. requirements for matric. provided that, in some exam. leading up to the BA or BSc. in that univ., he has passed in an oriental lang., math., or sci., and Engl.

*Other Commonwealth countries or countries using a European lang., except English, as the medium of instruction.* A candidate who produces a cert. qualifying him for admission to an approved univ. in a Commonwealth country other than India or Pakistan or in a country using a European lang. other than Engl. as a medium of instruction, may be deemed to have satisfied or partly to have satisfied the exam. requirements for matric. if he has qualif. for such admission includes either the passing of an exam. or the satisfactory completion of a course of study in subjs. specified above for G.C.E. A pass in Engl. lang. at ordinary or equivalent level will be accepted instead of a pass in Use of Engl.

\* See p. 1553

§ See footnote to previous page

*Grads. of univ. other than Cambridge.* Grads. of any univ. approved for the purpose by the council of the senate are deemed to have satisfied the exam. requirements for matric.

*Adult students.* An adult student recommended by the bd. of extra-mural studies as fit to undertake a course leading to an hono. degree may be deemed to have satisfied the exam. requirements for matric. An adult student who has been awarded a technical state schol. or a similar award may be deemed to have satisfied the exam. requirements for matric. Such students must normally be not less than 25 yrs. of age.

*Commissioned officers.* A commissioned officer of H.M. regular forces, incl. regular forces of the Commonwealth, who is resident in Cambridge under the orders of the service authorities, is deemed to have satisfied the exam. requirements for matric. A midshipman in the regular naval forces is treated for this purpose as a commissioned officer.

#### *Admission to Advanced Standing—'Affiliation'*

Any person who, before matric. into the Univ. of Cambridge, has received or become qualified to receive a degree from another instn. for the educn. of adult students is entitled, on or after matric., to be approved as an affiliated student provided that: (a) when he became qualified for the degree he had been a member of one or more such instns. for not less than 3 academic yrs.; (b) the degree has been approved for the purpose of affiliation by the council of the senate. In particular cases the council may approve as an affiliated student a member or former member of an instn. for the educn. of adult students who does not fulfil these requirements. Certain adult students recommended by the bd. of extra-mural studies may also be approved as affiliated students.

An affiliated student may claim to have satisfied the exam. requirements for matric. He is also entitled to: (a) reckon the 1st term kept by residence as the 1st, 2nd or 3rd term for the purpose of certain provisions respecting the standing of candidates for (i) tripos exams. and (ii) degrees other than the ordinary BA degree or degrees of MSc, M.Litt and Ph.D.; (b) proceed to the BA degree, in certain circumstances, on obtaining hono. in one part or section of a divided tripos.

#### **DURHAM**

There is no min. age for admission prescribed by univ. regn., but in neither division of the univ. are degree students normally admitted under the age of 18 yrs. Students admitted to a coll. or recog. sch. in the Durham division or to the Newcastle division, or to an affiliated coll., may matric. if they (a) possess a general qualif. for matric. and (b) comply with any spec. requirements for the course they propose to follow.

\* See p. 1552.

§ A reorganization of the univ. is planned which will lead to the existence of separate univs. in Durham and Newcastle and will take effect from Aug. 1, 1963.

#### *General Requirements*

**GENERAL CERT. OF EDUC.** The G.C.E. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10 and 11\* will constitute a general qualif. provided that: (a) the student passed in Engl. lang. and either 4 or 5 other subs.; (b) the subs. incl. —(i) a lang. other than Engl., (ii) either maths. or one of the following: chem., phys., chem.-with-phys., bot., zool., biol., geol., general sci.; (iii) at least 2 subs. at advanced level.

If the candidate passed in Engl. lang. and four other subs., in addn. to the requirements in (b) (i) and (ii) (a) above, he must have passed at one and the same sitting in 3 subs. other than Engl. lang., drawn from at least 2 of the following groups, 2 of these 3 subs. being at advanced level: Group A: arts subs., excl. langs. Group B: langs. other than Engl. Group C: maths. and sci. Details should be checked with the regns. or registrar.

*Note*—Credits in a Sch. Cert. obtained before 1951 may be counted as ordinary level passes. Higher Sch. Cert. passes, principal or subsidiary, obtained before 1951 may be counted as advanced level passes. Credits in the Cambridge Overseas Sch. Cert. or subsidiary passes in the Cambridge Overseas Higher Sch. Cert. will be accepted as ordinary level passes. Principal passes in the Cambridge Overseas Higher Sch. Cert. will be accepted as advanced level passes. The West African Sch. Cert. will be recognized subject to the same conditions as the Cambridge Overseas Sch. Cert.

#### **QUALIFICATIONS OTHER THAN G.C.E.**

(1) A candidate who has been at work for not less than 2 yrs. after leaving sch. or who satisfies the matric. etice that the circumstances of his educn. have not afforded proper opportunity of obtaining the G.C.E. may be permitted by the etice, to matric. if he has passed certain exams. recognized by the etice, (e.g. Higher or Ord. National Cert. or National Dipl. in relevant subs. for appl. sci. only), or satisfies such tests as the etice may prescribe or accept. The etice may require the candidate to reach a prescribed standard in an exam. in such subs. as they may direct.

(2) The Attestation of Fitness of the Scottish Univs. Entrance Bd. granted on passes in no. 12\* or no. 13\* will qualify to matric. if it includes any spec. qualif. required for particular courses.

(3) No. 14\* will qualify under the same condition.

(4) The Hon. Leaving Cert. of the Dept. of Educn. of the Republic of Ireland will qualify to matric. provided that it includes (a) Engl., (b) a lang. other than Engl., (c) either maths. or an approved sci. sub., and provided that it includes at hono. standard any sub., required for entry to a particular course.

(5) The following will qualify to matric., if they incl. any sub., required for entry on a

particular course and if the candidate presents sufficient evidence of proficiency in Engl., a degree of any univ. in the British Isles or of any other approved univ., a cert. awarded by any public examining body in Canada, Australia, S. Africa, New Zealand, the U.S.A., or any of the countries which have ratified or acceded to the European Convention on the Equivalence of Diplomas (1953), provided that the cert. qualifies for admission to an approved univ. in the country in which it was awarded, the inter exam. of an approved univ. in India or Pakistan.

(6) The applications of candidates submitting certs. awarded in countries other than the U.K., the Republic of Ireland and those named in (5) above, will be considered individually.

#### *Course Requirements*

(1) Students entering upon courses for degrees named below and submitting a G.C.E. must not only satisfy the general requirements for matric. but also satisfy the following spec. requirements.

**ARTS.** BA in gen. studies, BA with hon. (with certain exceptions, see *Note* below): Latin or classical Greek at advanced or ordinary level. BA with hon. in land use studies, maths at advanced or ordinary level.

*Note.*—Candidates for the BA with hon. in land use studies, hon. in geog. & hon. in geog. & anthropol., hon. in econ. & geog., hon. in econ. & anthropol., hon. in pol. & anthropol., hon. in pol. & econ., hon. in maths. and hon. in psychol. or for the BA in archit. studies, fine art and soc. studies, or for the BA in gen. studies at Fouth Bay Coll., are not required to incl. Latin or Greek as a spec. requirement for matric.

**APPL. SCI.** BSc in appl. sci. (excl. metall.) a qualif. in maths. at ordinary or advanced level.

BSc in metall.: maths, phys and chem., of which one must be at advanced level.

**LAW.** LLB: Latin at either advanced or ordinary level.

(2) Candidates for the BA in fine art may matric. either (a) if they hold a general qualif. to matric., and pass the entrance exam. of the dept. of fine art or otherwise satisfy the hd. of the dept. that they are qualified to take the course; or (b) if they hold a G.C.E. with Engl. and 2 subs. other than fine art passed at one and the same occasion, and pass the entrance exam. of the dept. of fine art.

(3) Candidates for the (external) degree of BMus do not matric., but must produce evidence of a good general educn.

#### *Method of Application*

##### *Last Date for Receipt of Applications*

See pp 1594-1597.

## **EAST ANGLIA**

### *General Requirements*

1. Candidates for admission must be at least 17 yrs. of age on Oct. 1 of the yr. in which they seek to be admitted.

2. The following are eligible for admission.

(i) Grads. of univs. in the U.K., or of such other univs. as may be recognised for this purpose.

(ii) Holders of General Certs. of Educn. awarded by one of the examining bodies approved by the Ministry of Educn., subject to the following conditions: (a) the certs. must show passes in 5 or more subs., incl. Engl. lang., a lang. other than Engl. and a sub. from group II below; (b) at least 2 of the subs. must have been passed at the advanced level; (c) if only 5 approved subs. are shown in all, at least 2 subs. at the advanced level and one other sub. must have been passed at one and the same sitting; (d) no sub. may be counted both at the ordinary and at the advanced level; and (e) the subs. must be chosen from and in accordance with the following list.

*Group I.* (1) English lang., (2) English lit., (3) anc. hist. or Greek civilization, (4) hist., (5) geog., (6) econ., (7) music, (8) art, (9) religious knowledge, (10) Greek, (11) Latin, (12) French, (13) German; (14) any other approved lang. *Group II.* (1) Maths. or addit. maths. or pure maths.; (2) pure and appl. maths., (3) appl. maths.; (4) phys., (5) chem., (6) phys.-with-chem., (7) bot., (8) zool., (9) biol., (10) geol.; (11) sci. or gen. sci.

*N.B.*—1. Pure and appl. maths. cannot be counted with maths. or addit. maths. or pure maths. or appl. maths. 2. Phys.-with-chem. cannot be counted with phys. or chem. 3. Biol. cannot be counted with bot. or zool. 4. Sci. or gen. sci. cannot be counted with phys., chem., phys.-with-chem., bot., zool., biol., or geol. 5. Subjects not listed may be accepted in certain circumstances; each case will be considered on its merits.

(iii) Holders of Sch. Certs. and Higher Sch. Certs. awarded by an approved authority, provided that the subs. included comply with the provisions of (ii) above. A credit in a Sch. Cert. and a pass at subsidiary standard in a Higher Sch. Cert. will count as a G.C.E. pass at ordinary level, and a pass at principal standard in a Higher Sch. Cert. will count as a G.C.E. pass at advanced level.

(iv) Holders of a Cert. of Attainment of Fitness issued by the Scottish Univs. Entrance Bd.

(v) Holders of matric. certs. of overseas univs. of the British Commonwealth, or of approved foreign univs., provided that they have passed in Engl. lang. at G.C.E.

ordinary level, or in an exam. accepted as equivalent thereto.

- (vi) Qualified teachers, provided they have passed with distinction in at least one of the gen. subs. prescribed in a recognized cert. exam.
- (vii) Holders of 12\*.
- (viii) Candidates who have satisfied the examiners in the passing-out exam of the Royal Naval Coll., Dartmouth.
- (ix) Candidates who have passed the Forces Pisham exam, subject to interview.

3 The following may be declared eligible for admission:

- (i) Candidates who do not satisfy any of the requirements listed in paragraph 2 above, but who submit satisfactory evidence of having passed exams which are deemed equivalent to any of those listed and which incl. the subs. Engl. lang., a foreign lang., and maths. or a sci.
- (ii) Candidates who hold a full practising professional qualif. obtained by exam.
- (iii) In spec. cases, candidates over 23 yrs. of age on their submitting satisfactory evidence of previous study and of the capacity and attainments requisite to enable them to pursue the course proposed.
- (iv) Candidates for a res. degree on their submitting evidence of sufficient qualifs. for conducting original res.

In addition to the above minimum requirements, additional requirements may be prescribed for admission to particular courses.

#### Course Requirements

*Sch. of Engl. studies.* Passes in 2 approved subs. at advanced level. Candidates advised to offer one or more of the following: Engl. lit., hist. or mod. foreign lang.

*Sch. of biological sci.* Passes in 2 subs. at advanced level. One of these passes must be in chem. and the second in either a sci. or maths. suby. Candidates must have a pass in maths. at ordinary level if they do not have maths. at advanced level.

#### Method of Application

##### Last Date for Receipt of Applications

See pp. 1594-1597.

### EXETER

The min. age for admission to a degree course in the Univ. is 17 yrs.

#### General Requirements

The following are eligible for matric:

- (1) Grads. of univs. in the United Kingdom

\* See p. 1552.

† The Cert. of Proficiency in Engl. of the Cambridge Local Exams. Syndicate is accepted as equivalent to the ordinary level pass in Engl. lang.

and of such other univs. as may be recog. by the senate for this purpose.

(2) Holders of a General Cert. of Educn. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10, 11\*, which shows passes in 5 subs., of which 2 must be at advanced level, and includes (1) Engl. lang., (ii) a lang. other than Engl. selected from the list in group I below, (iii) a suby. selected from the list in group II below. The 2 subs. at advanced level must have been passed on the same occasion. No suby. may be counted at both ordinary and advanced level.

The list of subs. acceptable for complying with this regn. is as follows:

*Group I* (1) Engl. lang.; (2) Engl. lit.; (3) geog.; (4) hist.; (5) hist. with foreign texts (to be counted as 2 (A) subys.), (6) anc. hist., (7) Engl. econ. hist., (8) British constitution; (9) econ.; (10) econ. & public affairs, (11) religious knowledge; (12) logic; (13) Latin; (14) Greek; (15) French; (16) German; (17) Spanish; (18) Italian; (19) Russian; (20) Welsh; (21) any other approved lang.; (22) music; (23) art, (24) history & appreciation of art. *Group II* (25) pure maths.; (26) appl. maths.; (27) maths. (pure & appl.); (28) phys., (29) chem., (30) phys.-with-chem.; (31) geol.; (32) general sci.; (33) addnl. general sci.; (34) bot.; (35) zool.; (36) biol. or general biol. or human biol.; (37) physiol.

The selection of subs. will be limited as follows: (27) shall not be counted with (25) or (26); (30) shall not be counted with (28), (29), (32) or (33); (32) shall not be counted with (33); (32) or (33) shall not be counted with (28), (29), (30), (34), (35), or (36); (34) shall not be counted with (36); biol. shall not be counted with general biol. or with human biol.; (35) shall not be counted with (36).

(3) Holders of a 1st Sch. Cert. and Higher Sch. Cert. issued by an approved authority, provided that the subs. included comply with the provisions of regn. (2) above. A credit gained in a 1st Sch. Cert. and a pass at subsidiary level in a Higher Sch. Cert. shall count as a pass at ordinary level, a pass in a principal subject in a Higher Sch. Cert. shall count as a pass at advanced level.

(4) Holders of dipl. in pub. and soc. admin. awarded by the Univ. of Exeter.

(5) Subject to their satisfying such addnl. requirements as the senate may prescribe, persons holding matric. certs. of univs. in Commonwealth countries other than the U.K., and persons holding matric. certs. of such foreign univs. as may be recognized for this purpose.

(6) Exceptionally, other persons whose qualifs. by exam. the senate may deem sufficient.

#### Course Requirements

Candidates for admission to degree courses in the fac. of arts must incl. a pass in Latin at least at

‡ (A) = advanced level.

ordinary level in their entrance qualifs. except that candidates for admission to the hon. schs. of geog. and philos. and the combined hon. sch. of philos. & psychol. may substitute a pass in maths for a pass in Latin. Candidates for any degree course in the fac. of sci. must incl. a pass in maths at least at ordinary level in their entrance qualifs.

For admission to the following hon. and gen. hon. schs. in the fac. of sci., qualifs. equivalent to those set out below (in terms of the G.C.E.) are required.

Hon. schs.:

Bot. Three (A)\* passes incl. bot. and preferably chem.

Chem. (A) passes in chem. and either pure maths or maths. (pure & appl.) or maths. for sci., and normally a 3rd sci. subj.

Geog. Entrance qualif. must incl. (A) passes in geog. and another sci. subj.

Geol. (A) passes in any 3 sci. subjs.

Maths. (pure & appl.). (A) passes in pure maths and appl. maths (taken as separate subjs.)

Phys. Entrance qualif. must incl. (A) passes in phys. and in pure maths. or in maths. (pure & appl.) or in maths for sci.

Psychol. Normally (A) passes in 2 of the following: biol., maths., phys., zool.

Zool. (A) passes in either zool. and 2 of the following: bot., chem., geol., maths., phys. or bot. and 2 of the following: chem., phys., maths.

Gen. hon. schs. —

Chem. or pure maths. or appl. maths. or phys. as principal or subid. subj. (A) pass in that subj.

Zool. or principal or subid. subj. (A) pass in zool. or biol.

Geog. as principal subj. (A) pass in geog.

Geol., psychol., bot. or principal subjs. No addnl. requirements.

Addnl. & subid. subjs. :—

Chem. or geog. or pure maths. or phys. as addnl. or subid. subj. (A) standard in that subj.

Zool. as addnl. or subid. subj. (A) standard in zool. or biol.

Maths. (pure & appl.) or addnl. subj. (A) standard in maths.

Geol., psychol., or bot. or addnl. or subid. subjs. No addnl. requirements.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

### HULL

#### General Requirements

In order to be able to matric. (min. age 17) a candidate must hold one of the following general requirements

- A degree of a univ. in the United Kingdom or of another univ. which has been recognized by the senate for this purpose.

\* (A) = advanced level

- A General Cert. of Educn., approved as such by the Ministry of Educn., which shows either (a) passes in *sci.* subjects (not necessarily on the same occasion) of which Engl. lang. is one, and of which at least two are at advanced level, or (b) passes in five subjs. of which Engl. lang. is one, provided that at least three have been taken on one and the same occasion and that at least two of these three are at advanced level.

- A Sch. Cert. in which credit standard was reached at one and the same sitting in five subjs. incl. (a) Engl. or Engl. lang., (b) elem. maths., (c) a foreign lang.

- A Sch. Cert. with a credit in at least one subj. and a pass in each of the following groups: (a) Engl. lang., (b) Engl. lit., hist., geog., scripture; (c) langs. other than Engl.; (d) maths. and sci. subjs., provided that such cert. is combined with either (a) a full Higher Sch. Cert. or (b) a cert. showing passes in 4 subsidiary subjs. in a Higher Sch. Cert. exam or (c) a G.C.E. showing passes in 3 subjs. at advanced level on one and the same occasion.

- A teaching cert. with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.

- A Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd. in respect of a Scottish Leaving Cert. or of passes obtained in No. 12 §

- Matriculation (in the sense defined by the ordinance relating to matric.) in any other univ. of the United Kingdom, provided that he has passed in Engl. lang. at ordinary level in an exam. for the G.C.E. or a credit in Engl. lang. in a Sch. Cert. exam.

- A French Baccalauréat de l'Enseignement Secondaire.

- A German Universitätsreifezeugnis (commonly called the 'Abitur').

The senate may also declare eligible for matric.:

- A candidate who holds a full practising professional qualif. obtained by exam.
- A person matriculated (in the sense defined by the ordinance relating to matric.) in a univ. in a country other than the United Kingdom.
- A candidate educated elsewhere than in the United Kingdom on his submitting to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainment requisite to enable him to pursue the course proposed.
- In spec. cases, candidates over the age of 23 yrs. on their submitting to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainment requisite to enable them to pursue the course proposed.

Candidates for matric. who are over the age of 23 yrs. and who do not hold any of the qualifs.

required by regns. (i)-(iv) above may, at the discretion of the senate, take an entrance exam conducted by the univ.

#### Course Requirements

In order to be admitted to one of the courses listed below, an applicant should have satisfied the course requirement, if any, in addition to the general requirement. The course requirements are stated in terms of passes obtained in an exam. for the G.C.E.

#### BA special degree

*Classics* Latin (A)\* and Greek (O)\*. Some previous study of anc. hist. desirable but not essential.

*Engl. lang. & lit.* Engl. (A) plus either French (O) or Latin (O); Latin (A) desirable. Equivalent of these in some cognate subj. may be accepted in certain cases. In spec. circumstances qualify less than these may be accepted.

*French lang. & lit.* French (A) and Latin (O).

*Geog.* Geog. (A).

*German.* German (A).

*Greek (with Latin).* Greek (A) and Latin (O).

*Hist.* Hist. (A) and 2 other subjs. at (A)

*Latin (O)* is an advantage.

*Latin (with Greek).* Latin (A). Some previous study of anc. hist. desirable but not essential. Some knowledge of Greek, if only to an elementary stage, desirable; but in approved cases provision will be made for the teaching of Greek to beginners.

*Maths.* Pure maths. (A) and appl. maths. (A), that is maths. as a double subj., or similar qualif.

*Mus.* Musc. (A) or some equivalent qualif.

*Engl., hist. or a mod. lang. at (A) or (O)* desirable.

*Philos.* No spec. requirements.

*Psychol. and soc. studies.* No spec. requirements.

*Swedish.* No spec. requirements, but a visit to Sweden before beginning the course would be highly desirable.

*Theol.* No spec. requirements.

#### BA joint degree

*Engl.* Engl. (A) plus either French (O) or Latin (O). Equivalent of these in some cognate subjs. may be accepted in certain cases. In spec. circumstances, qualify less than these may be accepted.

*Engl. and Latine.* Engl. (A) and Latin (A).

*Finnish.* No spec. requirements.

*French.* French (A) and Latin (O).

*French and Italian.* French (A) and Latin (O).

*French and Spanish.* French (A) and Spanish and Latin at (O).

*Geog.* Geog. (A).

*German.* German (A), although full consideration of those who have not obtained this qualif. is not precluded.

*Greek.* Greek (A).

*Hist.* Hist. (A) and 2 other subjs. at (A). Latin (O) an advantage.

*Italian.* Pass in Italian, Spanish, or French at (A) plus Latin (O).

*Latin.* Latin (A).

*Law.* No spec. requirements.

*Maths.* appl. Appl. maths. (A) or similar qualif.

*Maths., pure.* Pure maths. (A) or similar qualif.

*Mus.* Musc. (A) or some equivalent qualif.

*Philos.* No spec. requirements.

*Pol. studies.* 3 subjs. at (A).

*Psychol., sociol. and Swedish.* No spec. requirements.

*Sociol.* No spec. requirements.

*Spanish.* Spanish at (O), or its equivalent, and a pass at (A) in a foreign lang. either classical or mod.

*Theol.* No spec. requirements.

#### BSc special degree

*Bot.* Passes at (A) in 3 sci. subjs., one of which is chem.

*Chem.* Chem. (A) plus 2 other subjs. at (A) level, one of which is maths. or phys.

*Geog.* Geog. (A).

*Genl.* Passes at (A) in 3 subjs., preferably sci.

*Maths.* Pure maths. (A) and appl. maths. (A), that is, in maths as a double subj., or similar qualif.

*Philos.* No spec. requirements.

*Phys.* Phys. (A) plus either pure maths. (A) or appl. maths. (A) or pure & appl. maths. (A).

*Psychol.* No spec. requirements.

*Zool.* Zool. (A), chem. (A) and either bot. (A) or phys. (A) or maths. or alternatively in bot. (A), chem. (A) and either phys. (A) or maths. (A).

#### BSc joint degree

*Bot.* Chem. (A) and 2 other sci. subjs. at (A).

*Chem.* Chem. (A) and either phys. or maths. at (A).

*Geog.* Geog. (A).

*Genl.* 3 passes at (A), preferably sci. subjs.

*Maths.* appl. Appl. maths. (A) or similar qualif.

*Maths., pure.* Pure maths. (A) or similar qualif.

*Philos.* No spec. requirements.

*Phys.* Phys. (A) and either pure maths. (A) or appl. maths. (A) or pure & appl. maths. (A).

*Psychol.* No spec. requirements.

*Zool.* Biol. (A) or zool. (A). Preference will be given to applicants who have in addition a pass in chem. at (A).

#### Bachelor of Laws

No spec. requirements.

#### Bachelor of Sci. in Econ.

3 passes at (A). It is desirable but not essential that one of these should be Engl. or maths.

\* (A) = advanced level; (O) = ordinary level



*Method of Application*

and

*Last Date for Receipt of Applications*

See pp. 1594-1597.

**KEELE***General Requirements*

The following candidates (min. age 17) will be eligible for admission to the coll.:

- (a) Grads. of univs. of the United Kingdom, or of such other univs. as may be approved by the senate.
- (b) Holders of a General Cert. of Educn.\* showing:

either *Scheme A* (5 subs.)—a pass in (a) Engl. lang. or use of Engl., (b) one lang. other than Engl. (to be chosen from group II below), (c) one maths or sci. subj. (to be chosen from group III below), (d) 3 other subs. chosen from the list of approved subs.; provided that 2 of the 5 subs. are passed at the advanced level

or *Scheme B* (5 subs.)—a pass in (a) Engl. lang. or use of Engl., (b) one lang. other than Engl. (to be chosen from group II below), (c) one maths or sci. subj. (to be chosen from group III below), (d) 2 other subs. chosen from the list of approved subs.; provided that 3 of these subs. incl. 2 at the advanced level, are passed at one and the same sitting.

Passes at both ordinary and advanced level in the same subj. shall not count as 2 subs.

*Approved subjects* Group I: Engl. lit.; anc. hist. or anc. civilization or Greek civilization or mediev. and mod. hist. or biblical hist. and lit.; Engl. econ. hist.; British constitution, British hist., hist. with foreign texts; mod. hist.; geog.; econ.; music or art or hist. of art or colloquial knowledge or general studies, logic, principles of Engl. law Group II: Greek; Latin; French; German; Welsh; Spanish; Russian; any other approved lang. Group III: maths. or pure maths. or pure and appl. maths. or maths. and theoret. mechanics; appl. maths. (may not be counted with pure and appl. maths.); phys.; chem.; phys.-with-chem.; general sci. I/general sci. II (may not be counted with any of the following: phys., chem., phys.-with-chem., bot., zool., biol.); bot.; zool.; biol. or human biol. (neither may be counted with bot. or zool.); geol.

- (c) Holders of academic certs. or such other proof of academic attainment as may be accepted by the senate as equivalent to (b).
- (d) Candidates who have been engaged in some form of employment provided that they

- (i) have been so engaged for a period of not less than 3 yrs. and during that time have attended systematic courses of study, e.g. univ. tutorial classes. Spec. importance will be attached to the interview. Approved candidates

will normally be required to take a spec. entrance exam.;

- (ii) submit an appln. to the registrar not later than Jan. 31 of the yr. in which they desire to be admitted;
- (iii) have attained the age of 19 on Oct. 1 of the yr. in which they desire to be admitted;
- (iv) if required, pay an exam. fee of £2.
- (e) Trained certificated teachers, provided they have passed with distinction in at least one of the gen. subs. prescribed in a recognised cert. exam.
- (f) In exceptional cases, holders of such quals. as shall satisfy the senate of the high quality of the candidate, provided that these quals. show him to be acceptable for the courses offered at this coll.

Candidates for admission who wish to offer as evidence of qualif. educn. certs. issued by the various branches of the armed forces are advised to consult the registrar concerning their eligibility for admission.

*Students from U.K. Dependencies*

Students from U.K. dependencies applying for admission should write in the first instance to the Hd. of the Students' Branch, Dept. of Technical Co-operation, Sanctuary Bldgs., Gt. Smith St., London, S.W.1, or to the appropriate representative of their country, informing him that they wish to apply for admission to the Univ. of Keele. No appln. can be considered by the coll. unless the candidate is sponsored by the D.T.C. or appropriate representative.

*Method of Application*

and

*Last Date for Receipt of Applications*

See pp. 1594-1597.

Students from U.K. dependencies. see also previous paragraph.

**LEICESTER***General Requirements*

- (a) Candidates for matric. must be at least 17 yrs. of age on Oct. 1 of the yr. of their candidature.
- (a) The following are eligible for matric.:
- (a) Grads. of univs. in the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.
- (b) Holders of General Certs. of Educn. approved as such by the Ministry of Educn.\*, provided the certs. show either (i) passes in 5 subs. of which at least 2 must be passed at advanced level; or (ii) passes in 4 subs. of which at least 3 must be passed at advanced level, the subs. being chosen from the list set out below.

\* See p. 1552.      ‡ Counts as 2 advanced level subs.

- (e) Holders of Sch. and Higher Sch. Certs. approved as such by the Ministry of Education, provided the certs. fulfil the requirements of (b) (i) or (b) (ii) above. (A credit in a Sch. Cert. and a pass at subsidiary level in a Higher Sch. Cert. count as a pass at ordinary level; a pass in a principal or main subj. in a Higher Sch. Cert. counts as a pass at advanced level).
- (f) Holders of a Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.
- (g) Qualified teachers, provided they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.
- (h) The senate may also declare eligible for matric.:-

- (a) A candidate for a res. degree on his submitting to the senate such evidence as it may deem sufficient of his qualifs. for conducting original res.
- (b) A candidate who holds a full practising professional qualif. obtained by exam.
- (c) A candidate who submits to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainments requisite to enable the candidate to pursue the course proposed.
- (d) A student whose native tongue is not Engl. must have passed in Engl. lang. at G.C.E. ordinary level or in an exam. accepted by the senate as equivalent.

The subjs. accepted for matric. under regn. 2 (b) are as follows: (1) Engl. lang.; (2) Engl. lit.; (3) French; (4) German; (5) Greek; (6) Italian; (7) Latin; (8) Russian; (9) Spanish; (10) Welsh; (11) art or hist. of art; (12) logic; (13) music; (14) religious knowledge; (15) British constitution; (16) hist.; (17) anc. hist.; (18) Engl. econ. hist.; (19) econ.; (20) biol. or general biol.; (21) bot.; (22) zool.; (23) geog.; (24) geol.; (25) maths.; (26) pure maths.; (27) appl. maths.; (28) chem.; (29) phys.; (30) phys.-with-chem.; (31) general sci.; (32) general sci. (addnl.); (33) hist. with foreign texts.

Note.—Subj. (25) may not be counted with subj. (26) or subj. (27); (30) may not be counted with (28), (29), (31) or (32); (31) or (32) may not be counted with (21), (22), (28), (29), biol. or general biol.; biol. or general biol. may not be counted with (21) or (22); (33) may be counted as a advanced level subj.

#### Course Requirements

Ann. For the spec. degree in

- (a) *Classics or Latin or Greek*: pass in a mod. lang. other than Engl. at (O)\* or (A)\* level.
- (b) *Engl.*: normally pass, at (O) or (A) level, in Latin and in a mod. lang. other than Engl.
- (c) *French or German*: pass in Latin at (O) or (A) level.

- (d) *Hist.*: pass in Latin or French at (O) or (A) level.
- (e) *Maths.*: pass at (A) level in pure maths. and in appl. maths. or phys.
- Sci. For the spec. degree in
- (a) *Chem.*: pass at (A) level in maths. or pure maths.
- (b) *Phys.*: pass in maths. (pure and appl.) at (A) level or in pure maths. at (A) level and appl. maths. at (O) or (A) level.
- (c) *Maths.*: pass at (A) level in pure maths. and in appl. maths. or phys.
- (d) *Bioin.*: pass expected at (A) level in two of pure maths., appl. maths., phys.
- Soc. Sci. No spec. requirements in this fac.

#### Method of Application

and  
Last Date for Receipt of Applications

See pp. 1594-1597

### LONDON

Full particulars of the following requirements can be obtained from the sec. to the min. entrance requirements dept., Univ. of London, Senate House, Malet St., London, W.C.2

The min. age for admission is 17 yrs. In practice, the colls. of the univ., esp. the colls. for women students, expect an entrant to be 18 yrs. of age.

#### General Requirements

A person may satisfy gen. entrance requirements by one of the following methods:

1. THROUGH THE LONDON GENERAL CERT. OF EDUC. Passes awarded by London Univ. on the exam. for the G.C.E., will be accepted as satisfying gen. entrance requirements if the conditions of either scheme A or scheme B are satisfied.

Scheme A: passes in 5 subjs. of which at least 3 must be passed at advanced level.

Scheme B: passes in 4 subjs. of which at least 3 must be passed at advanced level.

The following provisions must be fulfilled in both schemes: (a) the subjs. must be chosen from the approved list (see p. 1572); (b) the restrictions against the combination of overlapping subjs. prescribed on pp. 1572-1573 must be observed; (c) no subj. can be observed at both ordinary and advanced levels.

Note.—There is no requirement that a certain number of subjs. must be passed at one and the same time or on a limited number of occasions (except for external BSc(Econ)).

2. THROUGH THE G.C.E. or OTHER APPROVED EXAMINING BODIES. A cert., or certs., awarded by nos. 3, 4, 5, 6, 7, 9, 10 or 11 will be accepted as

\* (O)=ordinary level; (A)=advanced level

† See p. 1582

satisfying either scheme A or scheme B, provided that (a) subsys offered correspond to those approved (see p. 1572) or incl. approved equivalent subsys; (b) the restrictions against the combination of overlapping subsys prescribed on pp. 1572-1573 are observed; (c) no suby. is counted at both ordinary and advanced levels.

*Note.*—There is no requirement that a certain number of subsys. must be passed at one and the same time or on a limited number of occasions.

3. **THROUGH SCHOOL CERTS. AND HIGHER SCHOOL CERTS.** Sch. Certs and Higher Sch. Certs awarded by London Univ. or by nos. 3, 4, 5, 6, 7, 9 or 10\* will be accepted as satisfying either scheme A or scheme B provided that: (a) the subsys offered correspond to those approved (see p. 1572) or incl. approved equivalent subsys; (b) the restrictions against the combination of overlapping subsys prescribed on pp. 1572-1573 are observed; (c) no suby. is counted at both ordinary and advanced levels.

Details of the extent to which recognition is accorded to Sch. Certs and Higher Sch. Certs are set out on p. 1573.

*Note.*—(i) Passes in subsys in the approved exams specified on p. 1443 may be regarded, subject to the conditions set out there, as equivalent to passes at ordinary level in the corresp. subsys. of the G.C.E. (ii) The requirements of scheme A or scheme B can be satisfied by a combination of certs. issued by more than one examining body<sup>1</sup>. Each examining body (other than the Univ. of London) must be one of nos. 3, 4, 5, 6, 7, 9, 10 or 11\* or be a body responsible for one of the approved exams specified on p. 1573, and conditions (a), (b) and (c) set out in section 2 above must be fulfilled.

4. **BY GRADUATION IN ANOTHER UNIV.** A student who has passed all the exams. for a degree of a univ. approved by the senate for the purpose will be considered to have satisfied min. entrance requirements.

5. **BY ADMISSION UNDER REGS. FOR ADVANCED STUDENTS.** A person who is admitted to a 2nd degree course as an advanced student under the internal or external regs. for advanced students will be deemed to have satisfied min. entrance requirements.

6. **BY PROFESSIONAL QUALIFICATIONS.** A person who has attained the age of 23 and holds a full practising professional qualif. obtained by exam may apply to the entrance requirements dept. for his qualif. to be considered as satisfying min. entrance requirements<sup>2</sup>. In order to be considered under this regn. the applicant must show that he holds (by exam) a qualif. which is either a necessary qualif. for the practice of a recog. profession, or one of the qualifs. which would normally be accepted for a public appt in the field of that profession. The applicant may be summoned for interview and may be required to

pass in addnl. subsys. of the G.C.E. or an equivalent exam.

7. **BY DIPLOMA IN TECHNOLOGY.** A person who has been awarded a dipl. in technol. by the Natl. Council for Technological Awards (London) will be deemed to have satisfied the minimum entrance requirements.

### Course Requirements

The addnl. requirements (based on passes in subsys. at the London G.C.E. exam.) for admission to the course of study for the final exam. for each degree of the univ. are as follows.

**FAC. OF THEOL. BD degrees.** Candidates who have satisfied gen. requirements may register for the revised BD degree.

**FAC. OF ARTS. BA degrees.** Before admission to the course of study for the BA gen. or BA honrs., a candidate who satisfies gen. entrance requirements by scheme A or B must do so by means of subsys. selected from the approved list of subsys. set out below, and a lang., other than Engl., at least 1 of which must be Latin or Greek [but see concession (ii), below], must be incl. at (O) § or (A) §.

The list of approved subsys. is as follows. Engl. lit., geog., hist., or Islamic hist. or Indian hist.; econ. hist.; anc. hist.; econ., logic, religious knowledge; Latin, Greek, classical Hebrew; French, German, Spanish, Italian, Russian, any other approved lang., pure maths; appl. maths; maths. (pure & appl.); phys., chem., phys.-with-chem.; geol., general sci., bot., zool., bot. & zool., music, art.

Art. (incl. the hist. of art-section) can be accepted for entry to any course within the fac. of arts provided that the suby. has been passed at (A) level. A pass in British constitution at (O) or (A) will be accepted as one (O) suby. under scheme A or B.

For certain honrs. degrees a candidate is advised to offer particular subsys. at the G.C.E. exam.

1. A candidate for a BA honrs. degree in the slavonic or east European field, whether in lang. and lit. or in regional studies, is required to have passed at (A) in the relevant slavonic or east European lang. or to possess a knowledge of the lang. equivalent to that required for a pass in the G.C.E. exam. at (A).

2. A candidate for BA honrs. in Engl. is advised to incl. Engl. at (A) and either Latin or Greek at (A).

3. A candidate for BA honrs. in hist. of art is advised that the study of European hist., a mod. foreign lang. and hist. of art is desirable before beginning the final degree course.

4. For the BA honrs. degree in maths, a candidate is required to have passed at (A) in pure maths and either appl. maths, or phys.

5. A candidate who proposes to offer music as a subject in the BA general degree exam. is required to have passed at (O) or (A) in one of the follow-

\* See p. 1552. § (O)=ordinary level; (A)=advanced level.

ing lang., not being the candidate's mother-tongue - French, German, Italian, Spanish, Latin, Russian. (Applcn. may be made for another lang. to be approved in sp. circumstances).

6 A candidate who intends to proceed to the BA hon. degree in archit. may count art as (O)\* or (A)\*.

Conventions. (i) A candidate whose mother-tongue is not incl. in the list of approved langs. may offer Engl. lang. (O) as an approved lang.

(ii) Classical Arabic, classical Armenian, classical Chinese, classical Hebrew, classical Japanese, Pali, classical Persian and Sanskrit may be substituted for Latin or Greek by

- Candidates who are natives of Asia or Africa and not of European or American parentage. But a candidate whose mother-tongue is Hebrew or Japanese or Persian may not offer classical Hebrew or classical Japanese or classical Persian respectively as his approved classical lang.
- Candidates proceeding to BA hon. degree in hist. (branches III, IV or V).
- Candidates proceeding to an hon. degree in oriental langs. (other than Hebrew). Candidates proceeding to the BA hon. degree in Hebrew are required to offer Latin or classical Greek.
- Candidates proceeding to the BA hon. degree in African studies.
- Candidates proceeding to the BA gen. degree incl. at least a oriental lang.

FAC. OF LAWS. *LL.B. degree.* A candidate must pass the inter. exam. in laws before proceeding to the course of study for the final exam. No exemption may be obtained from the inter. exam. by means of G.C.E. (A) pass.

FAC. OF MUSIC. *B.Mus. degree.* A candidate is required to pass the inter. exam. in music before proceeding to the course of study for the final exam. No exemption may be obtained from the inter. exam. by means of G.C.E. (A) pass. Before admission, a candidate must pass at (O) or (A) in one of the following langs., not being the candidate's mother-tongue - French, German, Italian, Spanish, Latin, Russian (apclcn. may be made for another lang. to be approved in sp. circumstances).

FAC. OF MED. *MB BS degree.* (a) First med. exam. : no requirements in addition to min. entrance requirements. (b) Second med. exam. : before admission to the course of study for the 2nd med. exam. a candidate is required : either (i) to pass the 1st med. exam. or (ii) to have satisfied gen. entrance requirements and have passed the following subj. in the G.C.E. exam. : chem. (A), phys. (A), zool. (A) or biol. (A).

*BDS degree.* As for MB BS degrees.

*B.Vet.Med. degree.* A candidate must pass chem. (A), phys. (A), zool. (A), or biol. (A) before proceeding to the course of study for the 1st vet. med.

exam. A candidate who has passed 2 of 3 prescribed subj. and has satisfied gen. entrance requirements may be admitted and will be required to pass the third subj. not later than 1 yr. before entry to 1st vet. med. exam.

*B.Pharm. degree.* Before admission to the course of study for the final exam., a candidate must pass the following subj. in the G.C.E. exam. : chem. (A), phys. (A), either biol. (A) or bot. (A) or zool. (A), together with another subj. at (O) or (A), which should preferably be maths.

FAC. OF SCI. A previous knowledge of maths. up to ordinary level will be assumed in respect of all degree courses which incl. a study of phys. or chem. or maths.

*B.Sc. (gen.) degree.* Before admission to the course of study for the final exam., a candidate must pass in 3 subj. from the following list, of which two must be at (A) : (1) biol., (2) bot., (3) chem., (4) geol., (5) phys., (6) zool., (7) geog., (8) pure maths., (9) appl. maths.; (10) maths. (pure & appl.).

Note.—(a) (1) may not be incl. with (2) or (5); (b) (10) may not be incl. with (8) or (9); (c) at least one of the two (A) subj. must be selected from the group numbered (1)-(6).

*B.Sc. (spec.) degree.* Before admission to the course of study for the final exam. for the B.Sc. (spec.) in a particular spec. subj., a candidate must pass in the subj. prescribed for that spec. subj. as follows :—

*Astron.* (A) passes in three subj. selected from (1)-(10) above.

*Anthropol.* (A) passes in two subj. selected from (1)-(10) above.

*Artren.* (A) passes in three subj. selected from (1)-(10) above, incl. phys. and either pure maths. or maths. (pure & appl.).

*Biochem.* (A) passes in (i) chem.; (ii) pure maths. or maths. (pure & appl.); and (iii) phys. or biol. or bot. or zool. A candidate who is admitted with a biol. subj. under (iii) but no phys., must pass phys. with an (O) pass not later than the end of the term of the course.

*Bot.* Passes in three subj. of which two must be (A), selected from (1)-(10) above. Chem. at (O) is compulsory. Chem. (A) plus maths. or phys. (O) are admissible.

*Chem.* (A) passes in (i) chem.; (ii) phys.; (iii) pure maths. or appl. maths. or maths. (pure & appl.). (Note. An internal student may be accepted with (A) passes in : (i) chem.; (ii) phys.; or pure maths. or appl. maths. or maths. (pure & appl.); (iii) biol. or bot. or geol. or zool. together with an (O) pass in phys. or a maths. subj. which has not been passed at (A). This qualif. is not approved for external students.)

*Geog.* (A) passes in two subj. selected from (1)-(10) above.

*Geol.* (A) passes in two subj. selected from

\* (O) = ordinary level, (A) = advanced level

§ Where reference is made to the B.Sc. (gen.) list above, notes (a) and (b) apply

(1)-(10) above. If maths. is not taken at (A)\* level it must be taken at (O)\* level.

*Maths.* (A) passes in (i) pure maths.; (ii) appl. maths. or phys.

*Microbiol.* Passes in three subs., selected from (1)-(10) above. Two, including chem., to be passed at (A) level. Candidates are advised to pass at (A) or (O) level in phys. or a biological subj.

*Phys.* (A) passes in: (i) chem.; (ii) phys.; (iii) maths. (pure & appl.) or (i) phys.; (ii) pure maths.; (iii) appl. maths. or chem. together with an (O) pass in either of the subs. appl. maths. or chem. which has not been passed at (A) or (i) phys.; (ii) maths. (pure & appl.); (iii) a subj. (excluding pure maths., appl. maths., and chem.) which must not be chosen from the BSc (gen) list, and a pass at (O) level in chem.

*Physiol.* (A) passes in subs. in three of the following groups and an (O) pass in the remaining group: (i) chem.; (ii) phys.; (iii) pure maths. or maths. (pure & appl.); (iv) bot. or bot. or zool. Alternatively, (A) passes in (i) chem.; (ii) phys.; (iii) pure maths. or maths. (pure & appl.).

*Psychol.* (A) passes in two subs. selected from (1)-(10) above.

*Statistics* (A) passes in two subs., one of which must be (8) of the list above.

*Zool.* Internal passes in three subs. selected from (1)-(10) above, one of which must be maths., and two of which must be at (A). External students must comply with the internal regn. and also pass zool. (A).

*BSc(Agric) degree without hon.* before admission to the course of study for the final exams. for the BSc(Agric) under these regns. a candidate must pass the 1st exam. in agric.

*BSc(Agric) degree with hon.* before admission to the course of study for the final exams. for the BSc(Agric) with hon., a candidate must pass at (A) in (i) chem.; (ii) bot. or bot. or zool.

*BSc(Hort) degree.* Before admission to the course of study for the final exams for the BSc(Hort), a candidate is required to have satisfied min. entrance requirements and to pass the 1st exam. in agric. and hort.

*BSc(Nutrition) degree, BSc(Household Science) degree.* Before admission to the course of study for the final exams. for the BSc(Nutrition) or BSc(Household Science), a candidate must pass the following subs.: (i) chem.; (ii) phys.; (iii) bot. or zool.; (iv) maths. The subs. (i) and either (ii) or (iii) must have been passed at (A).

*BSc(Architecture) degree.* A candidate must satisfy gen. requirements and incl. at least one subj. at (A) from (1)-(10) above. If maths. is not passed at (A), it must be obtained at (O).

*FAC OF ENGIN. BSc(Eng) degree.* Before admission to the course of study for the final exams. for the BSc(Eng), a candidate must pass in the following subs.: (i) maths. (pure & appl.) (A); (ii) phys. (A); (iii) chem. (O) or (i) pure maths.

(A); (ii) appl. maths. (A); (iii) phys. (A); (iv) chem. (O) or (A).

*BSc(Eng), chem. engn. degree.* Before admission to the course of study for the final exams. for the BSc(Eng) in chem. engn., a candidate must pass in the following subs.: either (i) maths. (pure & appl.) (A); (ii) phys. (A); (iii) chem. (A), or (i) pure maths. (A); (ii) phys. (A); (iii) chem. (A); (iv) appl. maths. (A) or (O); or (i) appl. maths. (A); (ii) phys. (A); (iii) chem. (A); (iv) pure maths. (A) or (O).

*BSc(Eng), mining (mining option) degree.* As for BSc(Eng) above.

*BSc(Eng), mining (mineral technol. option) degree.* As for BSc(Eng) in chem. engn. above.

*BSc(Eng), metallurgy degree.* As for BSc(Eng) in chem. engn. above.

*FAC OF ECON. BSc(Econ) degree.* No requirements in addition to gen. entrance requirements under scheme A or B for internal students. External students must achieve specified standards or grades in (A) subs. chosen from restricted list, the grades vary according to the number of sittings. Fuller information obtainable from the sec. to the univ. entrance requirements dept.

*BSc(Soc) degree.* No requirements in addn. to gen. entrance requirements under scheme A or B.

*BSc(EstMan) degree.* A candidate must pass the 1st exam. in estate management before proceeding to the course of study for the final exam. No exemption may be obtained from the 1st exam. by means of (A) passes in the G.C.E. exam.

#### Approved Subjects in G.C.E. Exam. of London Univ.

The list of subs. which are accepted under schemes A and B of the general requirements (see p. 1569) is as follows: (1) Engl. lang. (O); (2) Engl. lit. (O); (A); (3) geog. (O); (A); (4) hist. (O); (A); (5) Indian hist. (A); (6) Islamic hist. (A); (7) anc. hist. (O); (A); (8) Engl. econ. hist. (O); (A); (9) British constitution (O); (A); (10) econ. (O); (A); (11) logic (O); (A); (12) religious knowledge (O); (A); (13) Greek lit. in translation (O); (14) Latin (O); (A); (15) Greek (O); (A); (16) classical Hebrew (O); (A); (17) mod. Hebrew (O); (18) French (O); (A); (19) German (O); (A); (20) Spanish (O); (A); (21) Italian (O); (A); (22) Russian (O); (A); (23) any other approved lang. (O); (A); (24) pure maths. (O); (A); (25) addnl. pure maths. (O); (26) appl. maths. (O); (A); (27) maths. (pure & appl.) (A); (28) phys. (O); (A); (29) chem. (O); (A); (30) phys.-with-chem. (O); (31) geol. (O); (A); (32) general sci. (O); (33) addnl. general sci. (O); (34) bot. (O); (A); (35) zool. (A); (36) biol. (O); (A); (37) rural biol. (O); (38) music (O); (A); (39) art (O); (A); (40) human anat., hyg. & physiol. (O).

The selection of subs. under scheme A or scheme B will be subject to the following limitations: subj. (13) cannot be counted with subj. (15) (O) or (A); subj. (17) cannot be counted with

\* (A) = advanced level; (O) = ordinary level

subj. (16); subj. (27) cannot be counted with subj. (24) (O) or (A); subj. (26) (O) or (A); subj. (25) cannot be counted with subj. (24) (A) or subj. (27); subj. (30) cannot be counted with subj. (28) (O) or (A), (29) (O) or (A), (32), (33); subj. (32) or (33) cannot be counted with subjs. (28), (29), (30), (34), (35), (36) or (37); a candidate who has passed both (32) and (33) may count one of them without limitation; subj. (34) cannot be counted with subjs. (36) or (37); subj. (35) cannot be counted with subjs. (36) or (37); biol cannot be counted with rural biol.

#### *Recognition of School and Higher School Certs*

The holder of a Sch. Cert. or Higher Sch. Cert. awarded by one of the approved examining bodies (see above, p. 1552, nos. 3-10 inclusive) may count credits as ordinary level passes in the G.C.E. exam., subsidiary passes as ordinary level passes, and main subj. passes as advanced level passes.

Credits obtained in 1949 or 1950 at a Sch. Cert. exam., or subsidiary passes during the same yrs at a Higher Sch. Cert. exam., of one of the approved examining bodies (see above, p. 1552, nos. 3-10 inclusive), are accepted as ordinary level passes in the G.C.E. exam.; similarly main subj. passes at a Higher Sch. exam. in 1949 or 1950 will be accepted as passes at advanced level, even if the candidate was not awarded a Sch. or Higher Sch. cert.

#### *Conditions for Acceptance of other Exams*

A subj. entered on a cert. gained in one of the following exams will be regarded as equivalent to an ordinary level pass in the corresp. subj. at the G.C.E. exam., nos. 1, 2, 12, 13, \*14, 15 (see above, p. 1552); matric. exam. of Durham Univ., matric. exam. of Univ. of Wales; \*passing-out exam. of Royal Naval Coll., Dartmouth; matric. exam. of Nat. Univ. of Ireland; \*Leaving Cert. of Dept. of Educn., Eire; Adelaide Leaving Cert.; Melbourne Sch. Leaving Cert.; Melbourne Univ. matric. exam.; New South Wales Leaving Cert.; \*matric. exam. of Dept. of Tech. Educn., N.S.W.; Queensland Sr. Public exam.; Sydney Univ. matric. exam.; Tasmania Univ. matric. exam.; Schs. Bd. exam. of Tasmania, Tasmania Public Leaving Cert.; W. Australia Sch. Leaving Cert., graduation exam. of Royal Australian Naval Coll.; N.Z. Univ. entrance exam., N.Z. Dept. of Educn. Sch. Cert.; \*matric. exam. of S. African Jt. Matric Bd.; Natl. Sr. Cert. (matric. equivalent) of S. Africa; \*Secondary Sch. Sr. Cert. of Dept. of Public Educn., Cape of Good Hope; \*Transvaal Secondary Sch. Cert.; \*Orange Free State Sch. Leaving Cert.; \*Natal Sr. Cert.; Ontario Upper Sch. Cert.; British Columbia sr. matric. exam., sr. matric. exams. of other Canadian univs. and depts. of educn.;

\*Ceylon govt. Sr. Sch. Cert. (Engl.); Ceylon govt. General Cert. of Educn. (Engl. medium; from Dec. 1957, any medium)—credit standard only; Hong Kong Univ. matric. exam.; matric. and Sch. Cert. of Palestine Bd. of Higher Studies (Dept. of Educn., Palestine) [only certs. awarded before May 1948]; \*Cyprus Cert. exam. of Dept. of Educn., Cyprus; Sch. Cert. of W. African Exams. Council (sp. conditions apply); Sch. Cert. of Sudan Exams. Council (spec. conditions apply).

Candidates holding any of the above certs. may satisfy gen. entrance requirements by passing at the G.C.E. exam. in addnl. subjs. at advanced level, together with such ordinary level subjs. as may be required to satisfy the conditions of scheme A or B (see p. 1569).

#### *Recognition of Matric. Qualifs. under Former Regns.*

1. Those students who matriculated before April 30, 1951, by passing the matric. exam. or registering as exempt, are deemed to have satisfied the gen. conditions of the new regns.

2. Those students who obtained a statement of eligibility under the gen. entrance regns. in force from May 1, 1951, to April 30, 1957, are deemed to have satisfied the gen. entrance conditions of the revised regns.

3. Candidates in the London matric. exams held in 1949, 1950 and 1951 are entitled to count subjs. in which they were successful as (O) level even if they did not pass the exam. as a whole.

4. Candidates who passed Engl. at the univ. entrance exams held between 1951 and 1956 may count the subj. as Engl. lang. (O).

5. Candidates credited with pt. A or pt. B of the matric. may count the subjs. as equivalent to ordinary level subjs. of G.C.E.

#### *Admission of Overseas Students*

Overseas applicants, who seek admission to a sch., inst., or 'insen', with recognized teachers, must make a direct approach to the colls. they wish to join well in advance of the date they wish to begin the degree course. Students from Ceylon, India and Pakistan should apply through the edcon. dept. of the offices of their high commissioner in London. Students from other Commonwealth countries should apply through their student units in London. Those who have no student unit in London should apply through the Students' Branch, Dept. of Technical Co-operation, Sanctuary Bldgs., Gt. Smith St., London, S.W.1.

#### *Method of Application*

#### *Last Date for Receipt of Applications*

See pp. 1594-1597.

For admission to a mod. sch. of the Univ. of

\* O—ordinary level; A—advanced level.

† In exams. marked with an asterisk the acceptable standard is subject to sp. conditions.

‡ Recognition as equivalent to (A) level has been granted to certain subjs. passed between 1957 and 1962.

§ Recognition has been granted to passes in advanced subjs. in this exam. as being equivalent to (A) level passes in the London G.C.E.

London, the last date for receipt of applicants is Oct. 31 of the yr. prior to that in which entry is desired.

Overseas students: see also above under 'Admission of Overseas Students'

### NOTTINGHAM

A candidate is eligible to matric if he is at least 17 yrs of age on Oct 1 in yr of candidature, and possesses one of the qualifs. listed below

#### General Requirements

GENERAL CERT OF EDUC. A G.C.E. awarded by nos 3-10\* (see above, p 1552) which satisfies the following requirements:

1 The cert. must show either (i) a pass in Engl. lang. and in 5 other subjs. which incl (a) a lang. other than Engl. and (b) maths or an approved sci. Two of the subjs. must be passed at advanced level. The required passes must be obtained at not more than three sittings. Or (ii) a pass in Engl. lang. and in 4 other subjs. which incl (a) a lang. other than Engl. and (b) maths or an approved sci. Two of the subjs. must be passed at advanced level at one and the same sitting together with at least one other of the subjs. required. Or (iii) passes, all at advanced level and at one and the same sitting, of the N.U.M.B. exam. in general studies and in 2 other subjs.

2 The subjs. offered by candidates must be chosen from and in accordance with the list given in Appendix A, below. The same subj. may not be counted both at ordinary and advanced level. One, but only one, of the technical subjs. in section II of the list may be counted as a subj. at ordinary level, whether passed at ordinary or advanced level. The approved sci. required under (i) (b) and (ii) (b) above (para. 1) must be chosen from the subjs. numbered 22 to 37 in the list in Appendix A, below.

#### QUALIFICATIONS OTHER THAN 'G.C.E.'

(a) A degree conferred by an approved univ. after exam.

(b) A cert. showing that the holder has attended a 2-yr. full-time teachers' trg. course and has passed a final exam. of an area trg. organization approved by senate for this purpose.

(c) A cert. showing that the holder is a barrister called to the English bar, or a solicitor admitted to the Roll after passing the final exam. of the Law Society (Dept. of law only).

(d) A qualif. obtained before May 1, 1957, which fully satisfies the univ.'s matric. requirements in force up to that date.

RECOGNITION OF SCHOOL AND HIGH SCHOOL CERTS (incl. the Cambridge Overseas Sch. and Higher Sch. Certs.)

\* Candidates who wish to claim eligibility to matric. by virtue of a G.C.E. awarded by no. 11 are advised to send details of their exam. to the registrar.

§ See p. 1552

(a) A pass with credit in a subj. of an approved Sch. Cert. exam. or a pass at subsidiary standard or in a subsidiary subj. of an approved Higher Sch. Cert. exam. will be accepted in lieu of a pass in the corresp. subj. at ordinary level in the G.C.E.

(b) A pass in a principal subj. of an approved Higher Sch. Cert. exam. will be accepted in lieu of a pass in a corresp. subj. at advanced level in the G.C.E.

(c) The holder of approved Sch. and Higher Sch. Certs. will be eligible to matric; provided that he satisfies the conditions of the various schemes.

RECOGNITION OF OTHER CERTS. A pass in a subj. in any of the following exams will be accepted as equivalent to a pass in the corresp. subj. at ordinary level in the G.C.E. (a) Nos 1 and 2 § (b) Matric exams of the univs of Durham, London, Wales, Queen's Univ. of Belfast, Trinity College, Dublin, National Univ. of Ireland. (c) Nos 12 and 13 § (d) No 14 § (e) Leaving Cert. of the Dept. of Educ., Ire. (f) Passing-out exam. of the Royal Naval Coll., Dartmouth. (g) No 15 § (h) Passes Prelim. Cert. (i) Exams qualifying for matric in an approved British overseas univ.

Candidates holding any of the above certs. may qualify for matric by passing at the G.C.E. exam. in such addnl. subjs., at advanced or ordinary level, as may be required to satisfy the conditions of the various schemes.

Senate will consider individually, and may declare eligible for matric, (a) a candidate educated elsewhere than in the United Kingdom, on his producing satisfactory evidence of having passed exams. equivalent to those named above and of ability to follow instruction given in English, (b) a candidate admitted by senate to a course of study for a master's degree by rea.

#### Appendix A

SECTION I (1) general paper; (2) Engl. lang. (O.I. only); (3) Engl. lit.; (4) Greek hist. or Roman hist. or mod. hist. or Engl. hist. or British econ. & soc. hist. or European hist. or the hist. of the British Empire or American hist. or hist. with foreign texts (counting as two advanced subjs.); (5) geog. or phys. geog. & elem. geol. (O only may not be counted with geol.); (6) econ. or econ. & pol. sci.; (7) religious knowledge; (8) Greek & Roman lit. in translation (may not be counted with Latin or Greek) (O only); (9) art or the hist. & appreciation of art; (10) music; (11) Latin; (12) classical Greek or New Testament Greek or mod. Greek; (13) French; (14) German; (15) Spanish; (16) Italian; (17) Russian; (18) Welsh or Irish or Gaelic or Celtic; (19) Dutch; (20) Danish; (21) any other approved lang.; (22) maths. (may not be counted with pure maths. or appl. maths. or maths. & theoret. mechanics); (23) pure maths. (may not be

§ (O)=ordinary level

counted with maths.); (24) appl. maths. (may not be counted with maths.); (25) maths. & theor. mechanics (advanced level only; counts as a advanced subject and may not count with mechanics in maths or pure maths. or appl. maths.); (26) phys., (27) chem., (28) phys.-with-chem. (O\* only; may not be counted with phys. or chem. or general sci I or II), (29) bot., (30) zool., (31) mechanics, (32) biol. (may not be counted with bot. and/or zool., general sci I and/or II); (33) general sci I (O only); (34) general sci. II (O only). (Nos 33 and 34 may not be counted with any of the following: phys., bot., zool., chem., phys.-with-chem., biol., hist. of sci.); (35) geol.; (36) elementary physiol. (O only); (37) hist. of sci. (O only, may not be counted with any of the following: phys., chem., bot., zool., phys.-with-chem., biol., general sci I or II).

**SPECIAL II Note**—One only, but not more, from this section may be counted as an ordinary level only, whether passed at ordinary or advanced level.

(1) cook. (may not be counted with econ.), (2) handicraft; (3) woodwork; (4) metalwork; (5) mechanical sci.; (6) geometrical & engin. drawing; (7) geometrical & machine drawing; (8) bldg. construction & geometrical drawing; (9) engin. & workshop theory & practice; (10) surveying; (11) dom. sci.; (12) pottery; (13) textiles; (14) spinning & handloom weaving.

#### Industrial Motivation

A candidate may qualify for matric, solely for the purpose of admission to an inter. course in the fac. of agric. & hort. or of appl. sci., if he possesses:

- a G.C.E. showing passes at ordinary level in Engl. lang., maths. and 3 other subs. which must incl. either at least 1 sci. (for admission to the fac. of agric. & hort.) or phys. and chem. (for admission to the fac. of appl. sci.), and
- an approved Ordinary National Cert. or a dipl. or a qual. of equivalent standing, and
- approved practical experience appropriate to his proposed course, extending over a period of not less than 2 yrs.

#### Special Entrance Exam. for Mature Candidates

Candidates unable to qualify for matric in the normal way but showing promise of being able to profit from a univ. course may at the discretion of the hd. of the dept. concerned be admitted to a spec. exam. held at the univ. in March or Sept. The exam. is open to candidates who are over 21 yrs. of age and consists of an interview and papers in (i) Engl., (ii) three other subs. chosen in consultation with the hd. of dept. Candidates are allowed to attempt this exam. on one occasion only, except by sp. permission of senate on the recommendation of the appropriate fac. bd.

#### Course Requirements

Candidates must not only satisfy the general requirements of matric set out above, but for admission to certain courses must satisfy also the following spec. requirements. These are set out in terms of the G.C.E. but the univ. will recognize qualifs. of equivalent standard obtained as a result of passing other recog. exams.

Candidates for admission to courses for which no specific requirements are laid down will normally be expected to have a prelim. knowledge (to ordinary standard in the G.C.E. or its equivalent) of the subj. or subs. of the degree course they propose to follow, except for such subs. as theol., philos., law, econ., psychol. or social which are not usually taught in schs.

**FAC. OF ARTS Degree of BA.** Candidates (other than those for entry to the schs. of music and maths.) will be required to have passed at advanced level in a subj. within the purview of the fac. In addn., candidates for hon. in classics, French, German and Spanish studies will be required to have passed in Latin at least at ordinary level, and candidates for hon. in mediev. & mod. hist. will be required to have passed in Latin or a mod. foreign lang. at least at ordinary level. Candidates for admission to the sch. of music must have passed at advanced level in music and another subj. and must show proficiency in performance on the piano, or on some other approved instrument, together with a competent keyboard technique. Candidates for the sch. of maths. will be required to have passed at advanced level in maths. counting as a subj.

**Degree of BEd.** Candidates for admission will be required to have a reasonable knowledge of the theory of music, and proficiency in performance of an instrument approved by the hd. of the dept. of music, together with a competent keyboard technique.

**FAC. OF LAW & SOC. SCI. Degree of BA.** Candidates will be required to have passed at advanced level in any a subj. except that these 2 subs. must be mathematical subs. if the degree course includes maths.

**Degree of LLB.** Exemption from the qualifying exam. may be granted to students who have passed a comparable exam. approved by senate in subs. relevant to the degree of LLB, but the degree will not normally be awarded until the student has completed 3 yrs. of study in the univ.

**FAC. OF PURE SCI. Degree of BSc.** Candidates may be exempted from the inter. course and exam. if they furnish evidence of having passed at advanced level in certain specified subs. in the G.C.E. (normally the subs. of the 1st yr. final course). Further details from the registrar.

**Degree of BPharm.** Candidates may be exempted from the inter. course and exam. and accepted for direct entry to the final BPharm. course if they have passed at advanced level in chem., phys. and either bot. or zool. or bot.

\* O=ordinary level



**FAC OF ARTS & HONR. Degree of BSc.** Candidates may be exempted from the inter. course and exam. if they furnish evidence of having passed at advanced level in bot., chem. and zool., together with any one of phys., maths., geol., geog.

**FAC OF ARTS. Sci. Degree of BSc.** Candidates (except for metall., chem., and production engin.) may be exempted from the inter. course and exam. and accepted for direct entry into the final degree courses if they have passed at advanced level in pure maths., appl. maths. (or pure-&-appl. maths.) and phys., except that they will be required to take a spec. course and exam. in chem. at the end of their 1st yr., unless they have passed in chem. also at advanced level.

Candidates for metall. may be exempted if they have passed at advanced level in maths., phys. and chem.; in exceptional circumstances candidates who have passed only in phys. and chem. at advanced level may be exempted from the inter. exam. in those subs., and from attendance for the inter yr., but they will be required to take the course and exam. in inter. pure maths. during their 1st yr.

Candidates for chem. engin. (a 4-yr. course) require passes at advanced level in chem., phys., and pure-and-appl. maths., and an ordinary level pass in a 2nd foreign lang. is also desirable.

Candidates for production engin. may be exempted from the inter. course and exam. if they have passed at advanced level in either (i) pure maths., appl. maths., and phys., or (ii) pure-and-appl. maths., phys. and one other subj. Candidates must also have passed chem. or general sci. or phys.-with-chem. at ordinary level.

#### Method of Application

and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

### OXFORD†

Admission to the univ. ('matriculation') is without respect of sex, age, nationality or creed, and follows upon admission to a society, i.e. a coll. or hall or Linacre House. No one can become a member of the univ. unless he first becomes a member of one of these societies. (It should be noted that Linacre House, Nuffield Coll. and St. Antony's Coll. will normally accept candidates only for postgraduate degrees and diplomas). An applicant for admission must therefore be addressed, not to any officer of the univ., but to the proper officer of the society to which admission is desired, i.e. Balliol, Queen's, Magdalen and University—the sr. tutor; Brasenose, New Coll., Jesus, Hertford, St. Catherine's and Worcester—the tutor for admissions; Lincoln—the coll. secretary; in other cases—the hd. of the society. (See colls., etc., under Oxford Univ., pp. 1250-1268). It

should be made, if possible, more than 1 yr. before residence is contemplated.

Applications for admission must not be submitted through the U.C.O.A.'s central office (see p. 1597).

Applicants for admission must normally (a) satisfy the univ. entrance requirements and (b) pass a coll. entrance exam.‡

#### Admission Requirements

The following qualifications will satisfy the admission requirements.

##### General

Persons accepted by a fac. bd. for admission as sr. students, or as candidates for the degree of BCL or of BPhil or of BSc or of DPhil, or who hold a degree at another univ., such univ. having been approved by the Hebdomadal Council, or as students of mature yrs. recommended by the delegates for extra-mural studies under certain conditions. A cert. of having pursued a course of study extending over 2 yrs. at an approved univ., provided that the applicant has passed all exams. incidental to his course at that univ. and has submitted a cert. of satisfactory progress signed by a competent authority of that univ.; and provided further that the required course of study at an Asiatic univ. has incl. the study of Engl. and has been pursued subsequently to the inter. exam. or to the corresp. stage at a univ. which does not hold an inter. exam.

##### Great Britain and Ireland

- (i) A General Cert. of Educn. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10 or 11\* subject to passing at the ordinary or advanced level in:
  - (a) Engl. lang. (for those entering the univ. after Oct. 1, 1964, Engl. lang. will be replaced by a new subj. 'Use of Engl.' to be passed, with certain exceptions, not earlier than the first advanced level pass), and
  - (b) a 2nd of the langs., Latin, Greek, French, German, Italian, Spanish, Russian, Welsh, Afrikaans (one of these must be Latin or Greek, except for those with an advanced level pass in an approved mathematical or scientific subj. or who gain an approved coll. or univ. scholp. or exhibition in maths. or sci.), and
  - (c) a 3rd approved subj., one of which must be a mathematical or scientific subj.

Passes at advanced level are required in any approved subs. (except for holders of an approved coll. or univ. scholp. or exhibition)

Or (ii) a class in the sr. freshman exam. of Dublin or a cert. of fitness granted by the Scottish Univs. Entrance Bd. or a cert. of having passed in the inter. arts or higher exam. of Birmingham, Bristol, Leeds, Liverpool, London, Manchester, Sheffield, or in the 1st exam. for the BA in gen. studies or the final BA exam. of Durham or in the metric. or entrance exam. of Birmingham, Dublin,

\* See p. 1532.

† Late note: A new scheme for the regulation of admissions to the men's colls. at Oxford will come into operation for the 1964 entry.

National Univ. of Ireland, Wales or in a Scottish Cert. of Educn. or in a Leaving Cert. of the Republic of Ireland Dept. of Educn. or in one of the exams numbered 2, 13, 14, 15, 16 (a & b), 17\* (see above, p. 1552), provided that it includes passes *inter alia* in 2 of the above-mentioned langs., of which Latin or Greek must be one (but see 'Special Provisions', below).

#### Other Commonwealth Countries

(i) A cert. of having passed one of the following, provided that it includes passes in 2 of the said langs., of which Latin or Greek must be one (but see 'Special Provisions', below):—an exam. or exams. conducted by a univ. or other public educn. authority in Canada or New Zealand or Australia which satisfy the requirements for entrance to a univ. in that country, such univ. having been approved by the Hebdomadal Council; Leaving exam. of the Public Exams Bd. of the Univ. of Adelaide; Leaving Cert. exam. of the Bd. of Secondary Sch. Studies of the New South Wales Dept. of Educn.; matric. exam. of the Univ. of Sydney; Leaving Cert. exam. of the Public Exams Bd. of the Univ. of W. Australia; Sr. Public exam. of the Bd. of Post-Primary Studies & Exams. of the Univ. of Queensland; Sch. Leaving exam. of Univ. of Melbourne (class B); Schs. Bd. of Tasmania Cert. exam.; the exam. of the 1st yr. at McGill Univ. (BA course), Newfoundland Memorial Univ. or Toronto Univ.; Univ. of Malta matric. exam.; Univ. of Hong Kong matric. exam.; or

(ii) A Ceylon Sr. Sch. Cert. or a Ceylon General Cert. of Educn. or a West African Sch. Cert. or a Sch. Cert. of the West African Exams. Council with credits *inter alia* 2 of the above-mentioned langs., of which Latin or Greek must be one (but see 'Special Provisions', below).

#### Foreign Countries

(i) A cert. of having passed either (a) the matric exam. of the Joint Bd. of the South African Univs., or (b) the Secondary Sch. Cert. exam. of the Educn. Dept. of the Transvaal or Secondary Sch. Sr. Cert. exam. of the Dept. of Educn. of the Cape Province, or (c) the Sch. Leaving Cert. exam. of the Orange Free State or the National Sr. Cert. exam. of the Dept. of Educn., Republic of S. Africa, if by either cert. the holder is qualified for exemption from the matric. exam. of the Joint Matric. Bd. of the South African Univs.; provided that it includes passes in 2 of the above-mentioned langs., of which Latin or Greek must be one (but see 'Special Provisions', below); or

(ii) A cert. qualifying for admission to a univ. in Austria, Belgium, Czechoslovakia, Denmark, Finland, France, Fed. Republic of Germany, Greece, Hungary, Iceland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain,

Sweden, Switzerland, Turkey or Yugoslavia, provided it shows passes in either Latin or Greek, or a cert. of pt. I of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows passes in 2 approved langs. of which Latin or Greek must be one, or a Sudan Sch. Cert. with credits *inter alia* 2 approved langs. of which Latin or Greek must be one, or a cert. qualifying for admission to an approved univ. in the U.S.A. provided it shows passes in 2 approved langs. of which Latin or Greek must be one. (See also 'Special Provisions', below)

#### Special Provisions

Natives of Asia and Africa, not being of European or American parentage, can apply for permission to offer a substitute for Latin or Greek in certain of the above certs., or, in certain cases, for English lit. to count in place of an approved lang.

Any requirement of Latin or Greek in the above certs. does not apply to an applicant who either holds an advanced level pass in the G.C.E. in an approved mathematical or scientific subj. (or an approved equivalent in some other exam.) or who gains an approved coll. or univ. schol. or exhibition in maths or sci.

#### Admission to Privileged Standing:

##### 'Senior Status'

The following may be admitted to the status and privileges of a sr. student:

(1) Any person who has obtained a degree at another univ., such degree and such univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs. at the least at a univ. or univs. so approved, or, should the Hebdomadal Council in his case approve, partly at a univ. so approved and partly at another or other univs.

(2) Any person who, having been a student at a univ. in any European country where there is no degree in any way equivalent to that of bachelor of arts but where there are state or univ. exams. at approx. the same stage as the exams. for the degree of bachelor of arts, has passed such state or univ. exam., such exam. and such univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs. at the least at a univ. or univs. so approved.

(3) Any person who has obtained a degree at another univ. and has also been selected to come to Oxford by some body approved, for the purposes of this section, by the Hebdomadal Council.

(4) Any person who, though not eligible under sub-clause (1) or (2) or (3), has satisfied the Hebdomadal Council that he is particularly well qualified to be admitted as a sr. student.

\* Latin or Greek must be added to this cert. in the G.C.E.

§ The Hebdomadal Council will not approve any degree of an Indian univ. under this clause unless the course of study leading to it has extended to 3 yrs. subsequently to the inter. exam. In most cases a 1st class is required either in BA hon. or BSc hon. or MA or MSc.

(5) Any med. student of a univ. in the British dominions, except India, Pakistan and Ceylon, or Colonies or in Gr. Britain and Northern Ireland may be admitted to the status and privileges of a *se* student, provided that the univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that univ. or, should the Hebdomadal Council in his case so approve, at more than one univ., for at least 3 yrs., a course of study leading to a degree in med. and shall have passed all exams. incidental to that position of the course.

A *se* student, (a) may reckon his 1st term as his 4th, (b) is not required to pass any part of the 1st public exam.; (c) is entitled to supplicants for the degree of BA after having kept statutory residence for 6 terms, and having (i) obtained a place in the class list of an honour sch. of the 2nd public exam., or been allowed 'segratit', or, if disqualified by standing from obtaining hon., shown such merit as would otherwise have entitled him to a place in the class list, or (ii) satisfied the examiners in the 2nd public exam. in the final hon. sch. of nat. sci. in chem., pt. I, or in metall., pt. I.

No *se* student will be entitled to supplicants for the degree of BA except as above.

**Incorporation.** Admission of members of the univs. of Cambridge and Dublin to incorporation: see p. 1271.

### READING

The univ. holds no matric. exam. The min. age for matric. is 17 (usual age for entry 18)

#### General Requirements

Matric. is open to:

1. Grads. of univs. in the United Kingdom or other approved univs.
2. Until further notice—

(a) Persons who have passed or are exempt from the matric. exam. of the Univ. of London.  
(b) Persons who have qualified for the cert. issued on the result of an approved first exam. for secondary schs. and who at one and the same exam.\* have obtained passes with credit in 5 subjs. as follows: (1) Engl.; (2) Maths. or Latin or Greek; (3) three subjs. not already offered under (1) and (2) above, chosen from the following: (1) hist.; (2) geog.; (3) art or music; (4) Greek; (5) Latin; (6) French; (7) German; (8) one other mod. foreign lang. approved by the univ.; (9) maths.; (10) mechanics; (11) phys.; (12) chem.; (13) phys.-with-chem.; (14) bot.; (15) zool.; (16) biol.; (17) general sci.; (18) religious knowledge; provided that (a) persons offering maths. under (1) incl. one of the subjs. (4) to (8); (b) persons offering (13) may not offer (11) or (12); (c) persons offering (16) may not offer

(14) or (15); (d) persons offering (17) may not offer (11), (12), (13), (14), (15) or (16).

Persons desiring to qualify for matric. in virtue of subjs. not incl. under (1a) should apply to the registrar.

(c) Persons who have qualified for the a. cert. issued on the results of approved 1st and 2nd exams. for secondary schs.

(d) Persons who have qualified for the cert. issued on the result of an approved 1st exam. for secondary schs. and whose attainments as shown by the result of an approved 2nd exam. for secondary schs. satisfy the senate.

(e) Persons whose attainments as shown by the results of other approved exams. satisfy the senate.

(f) Persons who, being at least 23 yrs. of age, have passed a spec. exam. for matric. held by the univ. for approved candidates of mature yrs. (Details from the registrar)

In exceptional circumstances, the senate may exempt from exam., as a condition of matric., persons who are able to produce such evidence of previous educn. and attainments as the senate shall deem sufficient.

3. Persons entering the univ. up to and incl. Oct. 1968, who have obtained passes in the General Cert. of Educn. § in Engl. lang. and in either 4 or 5 other approved subjs. provided that (a) the subjs. incl. a lang. other than Engl. and either maths. or an approved sci. subj.; (b) at least 2 of the subjs. have been passed at advanced level; (c) candidates offering 4 subjs. only in addition to Engl. lang. have passed at one and the same sitting in 5 subjs. at the advanced level and in one other subj. not related to the subjs. offered at the advanced level.

The following subjs. have been approved for the purpose of this regn. by the senate:

(1) Engl. lang. (O) F; (2) Engl. lit. (O, A) F; (3) hist. (O, A); (4) anc. hist. (O, A); (5) geog. (O, A); (6) econ. (O, A); (7) logic (O); (8) religious knowledge (O, A); (9) art (O, A); (10) hist. & appreciation of art (O, A) (may not be counted with art); (11) music (O, A); (12) Greek (O, A); (13) Latin (O, A); (14) French (O, A); (15) German (O, A); (16) Spanish (O, A); (17) Italian (O, A); (18) Russian (O, A); (19) other specially approved langs. (O, A); (20) hist. with foreign texts (A only, counts as a subj. at A level); (21) maths. (O, A); (22) appl. maths. (O, A) (may not be counted at advanced level unless maths. has been taken at ordinary or advanced level); (23) phys. (O, A); (24) chem. (O, A); (25) phys.-with-chem. (O, A) (may not be counted with phys., chem. or general sci.); (26) bot. (O, A); (27) zool. (O, A); (28) biol. (O, A) (may not be counted with bot. or zool.); (29) geol. (O, A); (30) general sci. (O) (may not be counted with phys., chem., bot., zool., geol. or

\* Until further notice, 4 passes with credit at one exam. and one pass with credit obtained at another exam. may be accepted.  
§ See p. 1552

§ (O)=ordinary level; (A)=advanced level

biol.); (31) physiol. (O)\* (may not be counted with zool. or bot.); (32) hist. of sci. (O).

The following subjs have been approved by the senate as alternative options to maths (see clause (c) above): phys., chem., phys.-with-chem., bot., zool., biol., geol., general sci., hist. of sci.

No subj. may be counted at both the ordinary and the advanced level.

For the purpose of clause (c) above, candidates who offer 2 subjs. at advanced level chosen from subjs. nos. (2)-(20) must offer one subj. chosen from nos. (21)-(32); candidates who offer 2 subjs. at advanced level chosen from nos. (21)-(32) must offer one subj. chosen from nos. (2)-(20).

4. A credit obtained in a Sch. Cert. exam or a pass at subsidiary standard obtained in a Higher Sch. Cert. exam. will, for the purpose of regn. 3 above, be regarded as equivalent to a pass at ordinary level in a G.C.E. exam. A pass at principal standard obtained in a Higher Sch. Cert. exam. will similarly be regarded as equivalent to a pass at advanced level in a G.C.E. exam.

#### Course Requirements

**LETTERS.** A candidate qualified for matric. on the G.C.E. who wishes, or who is required, to offer Latin in the 1st univ. exam., must normally have obtained a pass at advanced level in the G.C.E. in that subj. before entry. An advanced level pass in Latin is thus normally required of students intending to follow the hon. course in classics, Latin, Greek, Engl., Latin and Engl. lit., Greek and Engl. lit., or Latin and French. A candidate intending to follow the hon. course in French or Italian or a combined hon. course in mod. langs. (French and German, German and French, French and Italian, Italian and French) will normally be required to have passed in Latin at advanced level or to have passed in a mod. lang. at advanced level and in Latin at ordinary level. A candidate intending to follow the hon. course in German or in mod. hist. will normally be required to have obtained at least an ordinary level pass in Latin. A candidate intending to follow the hon. course in geog. who wishes to offer geol. in the 1st univ. exam. must have obtained an ordinary level pass in chem.

**SCI.** In general, an advanced level pass in the G.C.E. is required in any subj. to be offered in the BSc yr I course, except that the requirements for geol., microbiol., psychol., phys., properties of materials and cytobiology are covered by those of other subjs. For bot., passes in bot. and chem. are necessary; for zool., a pass in bot., and for physiol. chem., passes in bot. or zool. or bot. are alternatives.

**AGRIC.** A candidate intending to follow either the pass or hon. course in agric. or dairying or hort. is normally required to have gained, before entering the univ., one yr.'s practical experience of a type suitable to the particular course he proposes to follow. In the case of dairying, it is

preferable that 6 mos. of the period should be spent on a dairy farm and 6 mos. in a dairy factory.

#### Exemption from First-Year Courses and Exams.

**LETTERS.** No exemption from the 1st univ. exam. in arts is permissible, except for grads of approved univs.

**SCI.** The inter. course and exam. will be discontinued at the end of the session 1962-63. No exemption from the yr I course is permissible.

**AGRIC.** Pass courses are provided in agric., hort. and dairying. First univ. exam. in agric.; the course and exam. are in 2 sections, section A consists of phys., chem., bot., zool. and geol. (the syllabuses for which are the same as those for the inter. exam. in the fac. of sci.), and section B of econ. and the hist. of agric. A student may be exempted from any subj. or subjs. of section A in which he has passed at advanced level in a G.C.E. exam. (or the equivalent in the London inter. or a Higher Sch. Cert. exam. or other approved exam.) on the following conditions.

(a) In the exam. he must offer at least one and not more than three of the subjs. of section A. A student who would need to offer more than three of those subjs. would be required to spend a yrs on the course.

(b) A student intending to follow the pass course in dairying must normally offer phys. whether or not he is eligible for exemption from that subj., he is not, however, required to offer geol.

(c) A student who has obtained a pass in bot. at advanced level in a G.C.E. exam. (or its equivalent) will normally be exempted from zool. in the exam.

**Hons. courses** are provided in each of the following subjs: agric. sci., hort. sci., agric., dairying, agric. bot., hort. bot., agric. chem. (either in animal nutrition or in soil sci.), agric. econ. These courses are normally divided into vry. parts, pt I consists of the inter. exam., the subjs. of which are phys., chem., bot. and zool., save that a student following the hon. course in hort. sci. or in agric. bot. or in hort. bot. must offer geol. instead of zool. Total exemption from the inter. exam. may be granted on passes at the advanced level in a G.C.E. exam. in phys., chem., and one of the subjs. bot., zool., biol., math., but all students entering for the hon. course in agric. bot. or in hort. bot. or in hort. sci. would normally be expected to have advanced level passes in phys., chem. and bot. for total exemption. Pts. II, III and IV consist of the course for the hon. subj. which extends over 9 terms. Thus a student who obtains total exemption from the inter. exam. can complete an hon. course in 3 yrs.

#### Method of Application

and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

\*O=ordinary level

## SOUTHAMPTON

The univ. holds no matric. exam. Min. age for matric. is 17

## General Requirements

Matric. is open to persons having one of the following qualifs.

I (a) A General Cert. of Educn., approved as such by the Ministry of Educn. (see p. 1552), which shows MATRIC (a) a pass in *sw* subjs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. or an approved sci. subj., (iv) at least a subj. at advanced level, provided that (1) the required subjs. be selected from and in accordance with the prescribed list, (2) no subj. may be counted both at the ordinary and at the advanced level, or (b) a pass in *five* subjs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) *either* maths. or an approved sci. subj., (iv) at least a subj. at advanced level passed at one and the same sitting together with at least 1 other of the 5 required subjs., provided that (1) the required 5 subjs. be selected from and in accordance with the prescribed list, (2) no subj. may be counted both at the ordinary and at the advanced level.

The following subjs. have been approved by the senate for the purposes of this regn.: Engl. lang.; Engl. lit.; hist.; anc. hist.; anc. hist. & lit. (not to be counted with hist. or anc. hist.); geog.; econ.; Engl. econ. hist.; British constitution, religious knowledge, art, hist. & appreciation of art (not to be counted with art); logic; music; Greek; Latin; French; German; Spanish; Italian; Russian; Welsh, specially approved langs.; maths.; pure maths.; appl. maths.; pure & appl. maths. (not to be counted with pure maths. or appl. maths. advanced level or ordinary level); phys.; chem.; phys.-with-chem. (at ordinary level only; not to be counted with phys., chem., general sci. or addnl. general sci.); bot.; zool.; bot. (not to be counted with bot. or zool.); geol.; general sci. and addnl. general sci. (at ordinary level only; not to be counted with phys., chem., phys.-with-chem., bot., zool., biol. or geol.); general paper.

The senate may in exceptional cases declare eligible for matric. candidates who do not satisfy the above requirements but can show that they are qualified in (i) Engl. lang., (ii) a and arts subj., and (iii) maths. and/or an approved sci. subj.

(b) A degree of a univ. in the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.

(c) A cert. as qualified teacher provided that the holder has passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.

(d) Any candidate whose qualifs. have been specially approved by senate, on the recommendation of the fac. bd. concerned, for admission to a course leading to a higher degree of the univ.

\* The following subjs. have been approved as alternative options to maths.; phys., chem., phys.-with-chem., bot., zool., biol., geol., general sci.

† Unless, of course, these languages have been passed at advanced level.

II. The senate may declare eligible for matric.: (a) candidates who do not satisfy the above requirements on their submitting to senate such evidence as it may deem sufficient of having passed exams. equal to any of the above-named and including the requirements of Engl. lang., a foreign lang., maths. or an approved sci. subj., (b) in spec. cases candidates over the age of 23, on their submitting to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainments requisite to enable them to pursue the course proposed; (c) barristers-at-law and solicitors of the supreme court.

III. For the purposes of matric. either the holding of an Ordinary National Cert. or the attainment of a satisfactory standard in the 4th yr. upper sch. exam. of any of the Royal Dockyard schs. shall be deemed equivalent to passes at advanced level in any 2 subjs. (other than Engl. lang. or another lang.) in the exam. for the G.C.E.

A pass in the joint pt. I exam. in Engl. of the Instns. of Civil, Mech. and Electr. Engineers shall be accepted as equivalent to a pass in Engl. lang. at ordinary level in the G.C.E. exam.

IV. Students in the univ. who have obtained the cert. in soc. studies after not less than 2 yrs. of residence in the univ. may by spec. permission of the senate be deemed to have been matriculated in the univ. at the beginning of their final yr. of study for the cert. in soc. studies.

## Course Requirements

In addition to matric. requirements, candidates for degrees must satisfy the spec. requirements of both the particular fac. and dept. to which entry is sought.

Extra. The following are the schools of the fac. with the fac. & dept. entrance requirements:

Schools for which 3 advanced level passes are required, and ordinary level passes in 2 langs., other than Engl., incl. a classical lang. †

Engl.: advanced level Engl., Latin & 1 other subj. In exceptional circumstances applicants may be admitted who have Engl. and 2 other subjs. at advanced level and who have passed Latin at ordinary level only.

Engl. & French, advanced level Engl., French & 1 other subj.

Engl. & music: 3 advanced level passes, 2 of which must normally be Engl. and music.

Engl. & philol.: advanced level Engl. & 2 other subjs.

French: advanced level French, Latin and 1 other subj. In exceptional circumstances, applicants may be admitted who have French & 2 other subjs. at advanced level and who have passed Latin at ordinary level.

Geog.: advanced level geog. & 2 other subjs. In this subj. a pass in 1 mod. lang. other than Engl. is required.

*Schools for which 2 advanced level passes are required, and ordinary level passes in 2 langs. other than Engl., incl. a classical lang.\**

*Clares* : advanced level Greek & Latin.  
*Engl. & German* : advanced level Engl. & German

*Engl. & Greek* : advanced level Greek & 1 other subj.

*Engl. & Latin* : advanced level Latin & 1 other subj.

*Engl. & Spanish* : advanced level Engl. & Spanish.

*Hist. & Engl. & hist.* : 2 advanced level passes, subs. not specified. For hist. an ordinary level pass in Latin is normally required.

*French & German* : advanced level French & German

*French with hist.* : advanced level French & at least 1 other subj.

*French & Latin* : advanced level French and Latin.

*French & music* : advanced level French & 1 other subj., normally music.

*French & philol.* : advanced level French & 1 other subj.

*French & Spanish* : advanced level French & Spanish.

*German* : advanced level German & 1 other subj.

*German & Greek* : advanced level German & Greek.

*German & Latin* : advanced level German & Latin.

*Greek & Greek & philol.* ; *Greek & theol.* : advanced level Greek & 1 other subj.

*Latin & Latin & mediev. hist.* ; *Latin & philol.* ; *Latin & theol.* : advanced level Latin & 1 other subj.

*Latin & Spanish* : advanced level Latin & Spanish.

*Spanish* : advanced level Spanish & 1 other subj.

*Spanish with hist.* : advanced level Spanish & 1 other subj.

*Schools for which 2 advanced level passes are required, and ordinary level passes in 2 langs. other than Engl.\**

*Geog. & hist.* : advanced level geog. & 1 other subj. One foreign lang. only required but knowledge of a 2nd lang. desirable.

*German with hist.* ; *German & philol.* : advanced level German & 1 other subj.

*German & music* : advanced level German & 1 other subj., normally music.

*Mod. hist. & music* : 2 advanced level passes, of which 1 must normally be music.

*Mus. & Spanish* : advanced level Spanish & 1 other subj., normally music.

*Schools in which 2 advanced level passes are required, and matriculation lang. requirement only.\**

*Hist. & philol.* ; *philol.* ; *hist. & theol.* ; *philol. & theol.* : 2 advanced level passes, subs. not specified

*Mod. hist. with pol. & econ.* : 2 advanced level passes, 1 of which must be hist. or econ. hist. or British constitution. A pass at ordinary level in a modern lang. other than Engl. is required.

*Maths.* : advanced level pure and appl. maths.

*Philol. & pol.* : 2 advanced level passes. Candidates who have not obtained an advanced level pass in econ. or an equivalent qualif. must attend a 1st-yr. auxiliary course in econ.

*Philol. & pure maths.* : advanced level pure maths & 1 other subj.

*Sci.* Candidates for admission to any course leading to the BSc must have passed the G.C.E. exam. or equivalent exam. in maths. and satisfied the appropriate entrance requirements specified in dept. regns. which, except in the case of maths, normally require a pass at advanced level in 3 subs. Dept. regns. are as follows :

*Bot.* Bot. (or bot.), chem. and one other sci. subj.

*Chem.* Chem., phys., one other sci. subj. In spec. circumstances appl. maths. or other sci. subj. may be accepted in place of phys.

*Electronics* Phys., pure maths., and one other sci. subj.

*Geog.* Geog. and any 2 sci. subs. and a pass at ordinary level in a mod. lang. other than Engl.

*Geol.* A pass in 3 sci. subs. In sp. circumstances a pass in 1 arts and 2 sci. subs. may be accepted. No previous knowledge of geol. is required.

*Maths.* maths. with aeronautics, maths. with electronics, Pure maths., appl. maths.

*Phys.* Phys., maths. and one other sci. subj.

*Physiol. & biochem.* Chem. and 2 other sci. subs.

*Zool.* Zool. (or bot.), chem. and one other sci. subj.

*ENGIN.* Advanced level phys., pure and appl. maths. (or pure maths. and appl. maths.), ordinary level chem. in the G.C.E. or equivalent exam.

The Ordinary National Cert. or a pass in the upper 10th exam. of any of the Royal Dockyard schs. are accepted on the same terms as for matric., but a candidate seeking to qualify in maths. by virtue of the Ordinary National Cert. must have passed in that subj. with distinction.

*Soc. Scis.* There are no fac. requirements, other than matric., except that advanced level geog. is normally required if this is offered as a spec. subj. and advanced level maths. is normally required for the sp. subj. of stats.

*Law.* No sp. requirements other than matric., but candidates will find it an advantage to have studied Engl. hist. and Latin up to the standard of G.C.E. ordinary level.

\* Unless, of course, these languages have been passed at advanced level

† For German and French & German an ordinary level pass in Latin or Greek is normally required.

*Admission of Overseas Students*

Overseas applicants whose permanent residence is outside the U.K. must, whether or not they are at present in the U.K., submit applications for admission to undergraduate courses in accordance with the following requirements:

Applicants from such students must be recommended by a local recognized educational authority testifying as to educational quality, character and financial provision. Applicants whose native language is not English are required to pass a test in English satisfactory to the university. Applicants should be submitted as follows:—(a) Commonwealth students residing overseas should apply through their local department of education or student advisory committee, and those residing in the British Isles should apply through their students' union in London. The application should be accompanied by a request for an official recommendation. The university does not normally consider applications without this recommendation. (b) Other overseas students must normally submit their applications through the official representative of their country in London.

*Method of Application and**Last Date for Receipt of Applications*

See pp. 1594-1597.

Overseas students: see also above under 'Admission of Overseas Students'.

**SUSSEX**

1. Candidates for admission must be at least 17 yrs. of age on Oct. 1 of the year in which they seek to be admitted.

2. The following are the entrance requirements, in terms of passes in the General Certificate of Education, awarded by one of the examining bodies approved by the Ministry of Education.\*

*General Requirements*

**B.A.** In addition to the G.C.E. passes at the advanced level required for all the B.A. degree courses, there must be passes at the ordinary level in English language, a language other than English (if not passed at the advanced level) and an approved science subject. (If not passed at the advanced level), together with passes in other approved subjects sufficient to raise the total number of passes at both levels to at least 6 (or 5 if a advanced level subject has been passed at one and the same sitting).

**B.Sc.** In addition to the G.C.E. passes at the advanced level required for each course, there must be passes at the ordinary level in English language and a language other than English (if not passed at the advanced level), together with passes in other approved subjects sufficient to raise the total number of passes at both levels to at least 6 (or 5 if a

advanced level subject and one other subject have been passed at one and the same sitting).

*Course Requirements**Degree of bachelor of arts*

*Sch. of Engl. & American studies* passes in 2 approved subjects at the advanced level.

*Sch. of European studies* passes in 2 approved subjects at the advanced level, if the candidate wishes to major in a language, one of the 2 advanced level passes must be in that language.

*Sch. of the studies* passes in 2 approved subjects at the advanced level.

*Degree of bachelor of science**Sch. of physics*

(a) Candidates wishing to major in physics in their final exam. must have passes at advanced level in 2 approved subjects. One of these passes must be in a mathematics subject or physics.

(b) Candidates wishing to major in mathematics in their final exam. must have passes at advanced level in 2 approved subjects. One of these passes must be in a mathematics subject. The second must be a pass in another mathematics subject or a good pass in physics.

(c) Candidates wishing to major in chemistry in their final exam. must have passes at advanced level in 2 approved subjects. One of these passes must, in general, be in chemistry and the other must be in a mathematics subject or physics. Candidates who have not passed in chemistry will be considered only if they have good passes in a mathematics subject and physics.

Note.—(i) No subject may be counted both at the ordinary and at the advanced level.

(ii) The subjects must be chosen from and in accordance with the following list:

- (1) English language, (2) English literature, (3) history, (4) geography, (5) economics, (6) economic history, (7) econ. geography, (8) British constitution, (9) Greek, (10) Latin, (11) French, (12) German, (13) any other approved language, (14) music, (15) art, (16) religious knowledge, (17) general paper on use of English, (18) mathematics or elementary mathematics or pure mathematics or applied mathematics, (19) applied mathematics, (20) pure & applied mathematics, (21) physics, (22) chemistry, (23) physics with chemistry, (24) botany, (25) zoology, (26) biology or human biology, (27) geology, (28) science or general science.

(iii) Subjects (18)–(28) are approved science subjects.

(iv) Subjects not listed may be accepted in certain circumstances, each case will be considered on its merits and in relation to the candidate's individual application.

(v) Certain subjects cannot be counted with other subjects, e.g. (20) with (18) or (19); (23) with (21) or (22); (26) with (24) or (25); (28) with (21), (22), (23), (24), (25), (26) or (27).

\* See p. 1552.

3. The following are also eligible for admission.

- (i) Grads. of univs. in the U.K., or of such other univs. as may be recognized for this purpose.
- (ii) Holders of Sch. Certs. and Higher Sch. Certs. awarded by an approved authority, provided that the subjs. passed comply with the provisions of para. 2 above. A credit in a Sch. Cert. on a pass at subad. standard in a Higher Sch. Cert. counts as a pass at ordinary level, and a pass at principal standard in a Higher Sch. Cert. will count as a G.C.E. pass at advanced level.
- (iii) Holders of a Cert. of Attainment of Fitness issued by the Scottish Univ. Entrance Bd.
- (iv) Overseas applicants who satisfy the matric requirements of a univ. of the British Commonwealth, or of an approved foreign univ., provided that they have passed in Engl. lang. at the G.C.E. ordinary level, or in an exam accepted as equivalent thereto.
- (v) Qualified teachers, provided that they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.

4. The following may be declared eligible for admission by the senate of the univ.:

- (i) A candidate who does not satisfy any of the requirements listed under paras. 2 and 3 above, but who submits satisfactory evidence of having passed exams. which are deemed equivalent to any of those listed, and which include the subjs. Engl. lang., a foreign lang., and an approved sci.
- (ii) A candidate over 23 yrs. of age, on his submitting satisfactory evidence of previous study, and of the capacity and attainments requisite to enable him to pursue the course proposed.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

### YORK

The min. age for admission to a degree course in the univ. is 17 yrs.

The univ. holds no matric or entrance exams.

#### General Requirements

The following are eligible for admission (but see also course requirements below).

1. Holders of General Certs. of Educn. awarded by one of the examining bodies approved by the Ministry of Education \* which show either (i) passes in 3 subjs. at advanced level, or (ii) passes in 5 subjs. of which a most be at advanced level and which should normally include Engl. lang., maths and a foreign lang. No suby may be counted both at ordinary and at advanced level.

\* See p. 1552.

† Subj. nos. 120-129 are approved sci. subjs.  
‡ (O) = ordinary level, (A) = advanced level.

2. Holders of a first Sch. Cert. and Higher Sch. Cert. awarded by one of the examining bodies approved by the Ministry of Education, provided that the cert. fulfil the requirements of 1 (i) or 1 (ii) above. A credit in a Sch. Cert. on a pass at subad. standard in a Higher Sch. Cert. counts as a pass at ordinary level in the corresponding subject of the G.C.E. A main suby. pass in a Higher Sch. Cert. counts as an advanced level pass in the corresponding suby. of the G.C.E.

3. Grads. of another univ. approved for the purpose.

4. In exceptional cases, holders of such qualifs. as shall satisfy the univ. of the high quality of the candidate and show him to be acceptable to pursue the course proposed.

#### Course Requirements

Engl. Candidates should normally have passed at advanced level in Engl. and two other subjs. It will be an advantage to offer a lang. (anc. or mod.), together with either hist., art or music.

Hist. Candidates should have passed at least at ordinary and preferably at advanced level in a mod. foreign lang. Candidates wishing to specialise in modern hist. will also require Latin.

Sci. and pol. Candidates will normally be expected to have ordinary level maths. If they wish to specialise in econ. they may find it an advantage to have taken advanced level maths, but it must be emphasized that all the maths. necessary for econ. can be learnt at the univ.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

### WALES

The Univ. of Wales no longer holds a matric. exam.

#### General Requirements

Admission is mainly determined on candidates' performance at the exams. for the General Cert. of Educn. conducted by the Welsh Joint Educn. Cttee. and/or nos. 3-9 and 11 \*.

For candidates seeking matric through the exams for the G.C.E., the approved subjs. are: (1) Engl. lang. (O)†; (2) Engl. (O, A)‡; (3) Welsh lang. (O); (4) Welsh (O, A); (5) sculpture (O, A); (6) hist. (O, A); (7) Greek & Roman hist. (O, A); (8) Greek (O, A); (9) Latin (O, A); (10) French (O, A); (11) German (O, A); (12) any other lang. approved by the univ. (O, A); (13) econ. (O, A); (14) maths. (O); (15) pure maths. (A); (16) appl. maths. (A); (17) pure & appl. maths. (A); (18) mechanics (O); (19) phys. (O, A); (20) chem. (O, A); (21) bot. (O, A); (22) zool. (A); (23) biol. (O, A); (24) geol. (O, A); (25) practical plane & solid geom. (O); (26) geometrical & machine drawing (O); (27) general sci. (O).



(28) agric. sci. (O)\*; (29) geog. (O, A)\*, (30) music (O, A); (31) art (O, A), (32) domestic subjects (O); (33) engin. sci. (O).

Candidates may not count more than one of the subs. in each of the following groups: (1) and (3); (14), (15) and (17); (14), (16), (17), (18), (19), (33), (19), (33), (31), (23), (22), (23); (25), (26); (27), (28). No candidate who counts (27) or (28) may count one of (18)-(24), and no candidate may count at advanced level both (30) and (31). The same subj. may not be counted at both ordinary and advanced levels.

In order to satisfy min. entrance requirements, a candidate must pass in (i) Engl. lang. or Welsh lang., and either 4 or 5 other subs., at least 2 of which must be passed at the advanced level; (ii) an addnl. lang. other than that selected under (i), (iii) maths. or an approved sci. subj. Candidates who have passed in only 4 subs. in addition to Engl. lang. or Welsh lang. must have passed on one and the same occasion in 3 subs., at least 2 of which are at advanced level.

The min. age for matric. is 17 yrs.

**Note**—The certs. of candidates desiring to matric. must in general comply either with the exam. requirements for matric. in force at the time of the award of the certs. or with the present exam. requirements.

#### Exempting Exams.

A grad. of an approved univ. or coll., or a barrister-at-law, or a solicitor of the supreme court of judicature in England and Wales, or an advocate or other legal practitioner in Scotland, or a med. practitioner registered in the United Kingdom, or a candidate who has qualified for the univ. dipl. in theol., may qualify for matric.

**United Kingdom.** Nos. 13 and 15 § provided that candidate has passed in Engl. lang., a lang. other than Engl., maths. or an approved sci. subj., and 2 other approved subs.

**Other parts of the Commonwealth and foreign countries.** The matric. exam. of a univ. in Canada, Australia, New Zealand or South Africa which is listed in the *Commonwealth Universities Yearbook*; or of the Univ. of Hong Kong; provided that the candidate passes in the subs. required.

The matric. exam. of an approved univ. in Belgium or Holland, the inner exam. in arts or sci. of an approved univ. of India or Pakistan, or of the univs. of Malta or Ceylon, or the exams. for the French baccalauréat, or the Iraqi baccalauréat, together with a cert. of fitness from the Iraqi Ministry of Educn., if certified in each case by a constituent coll. of the Univ. of Wales to possess a sufficient knowledge of Engl.

The matric. exams. of the Swiss univrs., the Royal Norwegian Ministry of Church and Educn., the Palestine Bd. of Higher Studies, the entrance exams. of the Univ. of Iceland; the Secondary Educn. Cert exam., part II, of the Egyptian Ministry of Educn. (with pass in spec. part);

provided in each case that the candidate passes in the subs. required.

A pass with credit in a subj. in the Ceylon Sr. Sch. Cert (Engl.) exam. is recog. as equivalent to a pass at the ordinary level in that subj. at the G.C.E. exam., provided that the passes at the ordinary level comply with the grouping requirements and are supplemented by 2 passes at the advanced level in an exam. conducted by the Univ. of London (or any other approved examining body).

#### Special Exemptions

Candidates of 23 or more yrs. of age, if specially recommended by one of the constituent colls. as having reached a satisfactory standard of educn.

Candidates of 20 or more yrs. of age, who have been either full-time pupils for at least 2 yrs. at an approved adult sch. or have been candidates for a univ. dipl. and for at least 1 yr. full-time students at a constituent coll. or an associated theol. coll., are not required to satisfy the condition of passing in 2 subs. at the advanced level, and may have passed in only 4 subs. in addition to Engl. lang. or Welsh lang., of which one must be a lang. and one maths. or an approved sci. subj.

Candidates who have passed the appropriate Ordinary or Higher National Cert. exam. or Ordinary or Higher National Dipl. exam. at a recognized teaching centre, after 2 yrs. at least in industry, have passed in Engl. lang. at the G.C.E. exam.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

#### Course Requirements

##### Aberystwyth U.C.

(a) For *first agric.*, experience on a farm required.

(b) *Bot. and zool.*: adequate knowledge of chem. required.

(c) *Chem.*: adequate knowledge of maths. and phys. required.

(d) *Geog. in fac. of sol.*: adequate knowledge of geol. required.

(e) *Phys.*: adequate knowledge of maths. required.

(f) *Hist.*: translation knowledge of Latin and French required.

##### Bangor U.C.

(a) Candidates for admission to an hono. course in *Engl., French and Hist.* must, before entry on pt. II hono., submit evidence that they have obtained a pass at the ordinary level in Greek or Latin in the G.C.E. or have reached an equivalent standard.

(b) Candidates for hono. in *Latin or Hebrew* must have completed before admission to the 2nd yr. of the full hono. course, the pt. I course in Greek or its equivalent; candidates for hono.

\* (O) = ordinary level; (A) = advanced level

§ Subj. nos. (18)–(29) are approved sci. subs.

in Greek must have a corresponding qualif. in Latin.

(c) Candidates for admission to an hon. course in *hist* must satisfy the hd. of dept. that they have an adequate reading knowledge of mediæv. Latin.

(d) Candidates for admission to an hon. course in *music* must satisfy the hd. of dept. that they have adequate executive ability in one practical subj.

(e) Hon. in *for.* is restricted to those who have math., chem., phys., at ordinary level, and passes at advanced level in 2 or more of the following: chem., phys., bot., zool.

#### Cardiff U.C.

*Fac. of Arts.* In order to be accepted for courses in Welsh, Latin, French, Spanish or hist. a student must normally have obtained a pass at the advanced level in those subjs. in the General Cert. of Educn., and in order to be accepted into courses in pure math. or appl. math. he must have obtained a pass in either pure math. or in math. (pure and appl.), but a student may be admitted to any of these courses if he satisfies the hd. of the dept. that he has obtained an equivalent standard. For certain hon. papers in *hist.*, a reading knowledge of Latin or French is required.

*Fac. of Sci.* Applicants for courses in the fac. of sci. must have (at least) a pass in math. at ordinary level.

**Swansea U.C.** For hon. in *hist* candidates must have an adequate reading knowledge of Latin, or French, or German, or Welsh. For hon. in phys. candidates should have advanced level passes in phys. and math. For hon. in chem. candidates should have advanced level passes in phys. and chem. For degree courses in engin. candidates should have advanced level passes in math. and phys., and preferably also in chem. For degree courses in metall. and chem. engin. candidates should preferably have advanced level passes in math., phys. and chem.

**Welsh National Sch. of Med.** It is not a condition of entry that a student should pass in any particular subj.

#### Exemptions from Intermediate Courses, etc.

The BA hon. course is one of 3 yrs, but students may be required to spend 4 yrs. over the course. Normally 3 passes at advanced level, and sometimes 2, ensue entry to a course requiring only 3 yrs. pursuance. For entry to depts the subjs. of which are not normally taught in sch., recognition is sometimes given to passes at advanced level in subjs. which are allied or considered to be suitable equivalents.

\* *Note.*—In 1963 the following subjs. will be added to this group: on the higher grade, phys. and chem. and bot.; on the ordinary grade, biol. Biol. may not be taken (as either grade) with either bot. or zool., with this proviso a pass in sci. on the higher grade will involve passes in any 2 of the branches phys., chem., bot. and zool., obtained at one session of exam. A candidate who obtains passes in all 4 of the branches phys., chem., bot. and zool. on the higher grade will be deemed to have passed in a group II subj. on that grade, but he will not be allowed to count towards his total of such passes both phys. (as a single subj.) and sci., if the latter involves phys. as one branch (and a similar rule will apply mutatis mutandis to passes in chem. and bot. and biol. and sci.). He will be allowed to count 3 passes in group II only if one of these passes is in math.

The BSc hon. course is one of 4 yrs., but students may be exempted from the inter. course in subjs. passed at advanced level; this makes possible the completion of an hon. course in 3 yrs. Admission to the 2nd-yr. course of subjs., which cannot usually be taken at sch., may be granted by virtue of advanced level passes in subjs. regarded as allied or ancillary, e.g. admission is possible to 2nd-yr. courses in metall. and in engin. for those with advanced level passes in math., phys. and/or chem.

### SCOTTISH UNIVERSITIES ENTRANCE BOARD

Secretary: R. A. McL. Davidson, CMG, MA,  
Kinburn House, St. Andrews, Scotland

#### Summary of Qualifications for Admission to Degree Courses in Scottish Univs.

No applicant for admission to a degree course in any Scottish univ. may be accepted unless he (a) holds the Cert. of Attestation, which is issued by the Scottish Univs. Entrance Bd. to those who have proved their educn. fitness in one or other of the ways specified below and (b) possesses the specific educn. qualifs. required for the particular fac. (or curriculum within a fac.) of the individual univ. which he desires to enter (see below, pp. 1588-1593).

The Cert. of Attestation is issued by the Scottish Univs. Entrance Bd. to those who have proved their educn. fitness in one or other of the following ways:

(1) Applicants who have been admitted to an approved degree (other than honorary) of a British or recog. overseas univ. or who have obtained a cert. recognized by the Bd. as equivalent.

(2) Applicants who have obtained passes on a Scottish Cert. of Educn. which satisfy in respect of subjs., numbers and standards of pass, and sessions of exam., the following conditions:

(a) The subjs. which are recognized as qualifying are as follows. Group I: Engl. Group II\*: on the higher grade: math.; sci. (any 2 of phys., chem., bot., zool.), addnl. math. (i.e. passes at one session in 2 of the 3 papers, dynamics, geom., elem. analysis). A candidate who obtains passes in all 4 branches of sci. on the higher grade will be deemed to have passed in 2 subjs. on the higher grade. On the ordinary grade: math.; phys., chem.; bot. & zool. A pass in sci. on the lower grade (in 1961 or earlier) will be accepted as a pass on the ordinary grade in a group II subj. Group

III. Latin, Greek, French, German, Italian, Spanish, Gaelic, Hebrew, Russian. Group IV. *on the higher grade* hist., geog., music. Group V\* *on the higher grade* art, tech. subjs., phys.-with-engin.

(b) There must be (i) 4 passes on the higher grade, and at least 2 in subjs. chosen from groups II and III, or (ii) 3 passes on the higher grade, 2 at credit standard, or (iii) 3 passes on the higher grade, one at very good standard.

(c) There must be (i) a pass on the higher grade in subjs. chosen from each of 2 of groups I, II and III, and (ii) a pass on the higher or on the ordinary grade in a subj. chosen from the third of these groups.

(d) All the passes on the higher grade required to satisfy (b) and (c) (i) must have been gained either at not more than 2 separate sessions of this exam or at one session of this exam and at one session of the Scottish Univs. Prelim. Exam.

*Special Provision.*—The Scottish Univs. Entrance Bd. recognizes passes at the ordinary level of the General Cert. of Educn. Exam. as counting towards attestation in lieu of passes on the ordinary grade of the Scottish Cert. of Educn. exam, provided that the subjs. are identical.

*Note.*—The bd. has decided to fix the 'credit' and 'very good' standards at 60 per cent and 70 per cent respectively. Passes at these levels obtained at exams for the Scottish Leaving Cert. prior to 1961 will not be recognized.

(3) Applicants who present General Certs. of Educn. issued by any of the examining bodies, 3-10 § (and passes awarded by 11 § in, and after, 1959), showing that passes have been obtained (in subjs. recog. by the bd.)

A. Either in 6 subjs. (gained at any no. of sittings) which incl. (i) Engl. lang., (ii) either maths. or a recog. sci., (iii) an approved lang. other than Engl., (iv) at least 2 subjs. passed at advanced level of which one must be a subj. classified under group II or group III below (Note—No subj. may be counted both at the ordinary and at the advanced level).

B. Or in 5 subjs. which incl. (i) Engl. lang.; (ii) either maths. or a recog. sci., (iii) an approved lang. other than Engl., (iv) at least 2 subjs. passed at advanced level, of which one must be a subj. classified under group II or group III below, and the 3 from not fewer than 2 groups. (Note.—(i) no subj. may be counted both at the ordinary and at the advanced level, (ii) 3 passes must have been gained at one and the same sitting, of which 2 must be at the advanced level and the 3 from not fewer than two separate groups.)

*Explanatory Note.*—An applicant presenting a G.C.E. is required to qualify entirely by

passes in that exam. and may not supplement or substitute for them passes in the Scottish Univs. Prelim. Exam. The one exception is contained in the and option under C below; but this option is open only to those who have the qualifs. for matric. at a univ. (other than Oxford or Cambridge) located in England or Wales, and have qualified for matric. in subjs. recognized by this bd.

C. Passes which collectively satisfy the conditions set out under A or B above in all respects other than .

(1) in either A or B, the absence of a pass at the advanced level in a subj. of group II or group III, or (2) under B, the absence of a third pass at the advanced level,

may be supplemented by a pass in an appropriate subj. gained either (i) at the advanced level in a subsequent G.C.E. exam; or (ii) on the higher grade in the Scottish Univs. Prelim. or Scottish Cert. of Educn. exams.

The subjs. recog. by the bd. are as follows: Group I. Engl. lang., Engl. lit., geog.; anc. hist., mod. hist. Group II. 1. maths. (pure); 2. appl. maths.; 3. pure & appl. maths.; 4. phys.; 5. chem.; 6. bot.; 7. zool.; 8. geol.; 9. phys.-with-chem.; 10. biol.; 11. general sci. (Note—No. 3 does not count if either no. 1 or no. 2 is offered, no. 9 does not count if either no. 4 or no. 5 is offered, no. 10 does not count if either no. 6 or no. 7 is offered, no. 11 does not count if any of nos. 4 to 10 is offered and it will not in any event count as more than one subj.)

Group III: (a) Latin, Greek, French, German, Italian, Spanish; Gaelic, Hebrew, Russian, and, at the advanced level only; (b) Afrikaans, Arabic; Bulgarian; classical Chinese, classical Japanese; Czech; Danish; Dutch, Finnish; Hausa; Hindi, Hungarian, Icelandic, Irish, mod. Greek, Norwegian, Pali, Persian; Polish; Portuguese; Roumanian, Sanskrit, Serbo-Croat, Sinhalese, Swahili, Swedish, Tamil, Turkish; Urdu; Welsh. Group IV\* art; music. (Note.—(a) The bd. does not recognize as an advanced level pass in Latin or Greek a pass obtained in an exam in which the candidate has not offered both translation from and composition in the lang. (b) Classical Greek and mod. Greek are mutually exclusive for purposes of attestation, as are Hindi and Urdu and Afrikaans and Dutch. Candidates offering Hindi must use the Devanagari script; those offering Urdu must use the modified Persian script.

The bd. does not recognize agrotist passes awarded by any of the examining bodies 3-11 §

In and after 1964 the bd. may cease to recognize advanced level passes for the purpose of its regns.

\* *Notes.*—(1) A pass in phys.-with-engin. will not be accepted together with a pass in tech. subjs. nor with a pass in higher sci. which incl. phys., nor with a pass in higher phys. as a single subj. in the prelim. exam. (2) A pass in phys.-with-engin. will be regarded as a pass on the higher grade in a subj. of group II if it is supplemented by satisfactory performance in any one of chem., bot., zool. (and biol. from 1963) taken on the higher grade, either at the same session of the exam. or consistently with (4) below.

1 See p. 1552.

unless they are obtained at some prescribed grade above that of the minimum pass mark

*Note 1.*—(a) The following will be treated as if they were passes at the ordinary level: (i) a very good pass or a pass with credit, obtained in a Sch. Cert. exam incl. the W. African Sch. Cert. and Sudan Sch. Cert. exams; (ii) a pass in a subsidiary subj. for an advanced standard obtained in a Higher Sch. Cert. exam; (iii) a pass at ordinary standard in a London metric exam; (iv) a very good pass or a pass with credit, obtained in the Sr Sch. Cert. exam or the G.C.E. exam at the Educ. Dept. of Ceylon; (v) a pass obtained in the Higher Sch. Cert. exam of the Educ. Dept. of Ceylon; (vi) a pass at the ordinary or at the advanced level in the metric exam of the Univ. of Hong Kong. (b) The following will be treated as if it were a pass at the advanced level: a pass at main or principal standard obtained in a Higher Sch. Cert. exam. *Note.* A complete pass in the prelim. exam. of coll. in sp. relation with the Univ. of London, that is, passes in 3 recog. subj. at one session of exam., will be deemed to count as an advanced level pass towards attestation.

#### Other Recognized Examinations

(4) A Sr. Cert. of the Ministry of Educ., N. Ireland, issued in 1952 or later, will qualify for the bd.'s cert. of attestation if it contains passes in at least 6 subj., recog. by the bd., incl. Engl. lang.; Engl. lit.; a lang. other than Engl. and a mathematical or scientific subj., on condition that at least 3 of the passes are at the advanced level, one of these 3 being either in a lang. other than Engl. or in a mathematical or scientific subj. (the bd. recognizes gen. math. and appl. math. as separate subj., but not pure math.), and that all 6 passes have been gained at not more than two separate sessions of exam. A sr. cert. gained at one session of exam. may be supplemented by a pass or passes gained at one session of the metric exam. of the Queen's Univ. of Belfast; a pass in this exam. will count as the equivalent of a pass at the advanced level in a cert. of 1952 or later yr. An applicant who has passed at not more than two sittings the metric exam. of the Queen's Univ. of Belfast in Engl. math., a lang. other than Engl., and in 2 other subj. incl. in the groups mentioned in (3), qualifies for attestation.

(5) Passes at 70 per cent, or better, shown in a cert. qualifying the applicant for entry on a degree course in arts, pure sci. or med. at a recog. univ. of the Republic of Ireland, Canada, Australia, New Zealand or of the Republic of South Africa, if they are in subj. recog. by the bd., will count (i) as passes at ordinary level if the holder completes his qualifs. by means of the G.C.E. exam. (clause (3) above), or (2) as passes on the ordinary grade if he completes by the Scottish Univ. Prelim. Exam. at not more than 2 sessions of that exam. Alternatively a cert. signed by the registrar of a recog. univ. in these countries

stating that the applicant has completed satisfactorily the first 2 yrs. of a course leading to a degree in arts, pure sci. or med., and has duly passed in all the subj. of his course up to that point, will qualify for the Cert. of Attestation. The bd. will not consider applicants from persons who have failed to pass all the relevant exams. of the first 2 yrs. of an approved degree course, unless they can demonstrate that their failure is attributable to sp. circumstances, e.g. prolonged illness. In all such cases, applicants must submit full details accompanied by appropriate official evidence.

(6) Evidence of the satisfactory completion of the 2nd yr. of a course leading to a degree in arts or pure sci., or of the pre-med. course, of a univ. or coll. in the U.S.A. (other than a jr. coll.) appearing in the current list publ. by the American National Ctr. of Regional Accrediting Agencies, will qualify for the bd.'s Cert. of Attestation if the applicant's academic record shows grades averaging not below B in each of the following subj. as have been incl. in the first 2 yrs. of his academic course: Engl., foreign langs., maths (pure and appl.), sci., hist., geog., art and music.

(7) A sch. leaving, metric, or univ. entrance cert. awarded in any one of the countries named below and qualifying unconditionally for entrance on a course leading to a degree in arts, pure sci. or med. in a recog. univ. of that or an adjacent country, is acceptable: (a) if it contains passes of satisfactory (or higher) grade in 6 of the subj., detailed in para. (3) above, and these incl. (1) the lang. of the country issuing the cert., (2) a recog. lang., and (3) either maths or a recog. sci., all 3 gained in the written exam.; and (b) if at least 2 of these passes (which must incl. Engl. or a subj. of group II or group III taken in the written exam.) are graded as 'very satisfactory', and (c) on condition that it is supplemented by (1) a London Univ. or Cambridge Cert. of Proficiency in Engl.; or (2) a pass in Engl. on the ordinary grade in the Entrance Bd.'s prelim. exam.; provided that exemption from this condition will be granted if the grade 'very satisfactory' has been awarded in Engl. (written and oral). A cert. that fails to satisfy clauses (a) and (b) of this rule for want of a 6th subj., or in respect of the grade of pass required in one subj. only, may be made good by a pass on the requisite standard in an appropriate subj. obtained either (i) at a subsequent session of the original exam., or (2) in the Entrance Bd.'s prelim. exam., in which the pass must be on the higher grade; or (3) in the English G.C.E. exam., in which the pass must be at the advanced level.

The countries are: Norway, Sweden, Denmark, Iceland, Finland, Holland, Belgium, France, Luxembourg, Switzerland, Western Germany, Italy, Spain and Portugal.

(8) The bd. may at its discretion attest an applicant whose qualifs. do not fulfil precisely any one of sections (5)–(7), if it is satisfied that his educat. attainments as a whole are not inferior to those required by the rules in these sections.

APPENDIX A: List of Approved Languages  
(see section (3) above)

Latin, Greek, French; German, Italian; Spanish, Gaelic, Hebrew, Russian; and, in addition, the following langs.: Afrikaans; Arabic, Bulgarian, classical Chinese, classical Japanese, Czech, Danish, Dutch; Finnish; Hausa; Hindi, Hungarian, Icelandic, Irish, mod. Greek; Norwegian; Pali, Persian, Polish; Portuguese; Roumanian; Sanskrit; Serbo-Croat; Sinhalese; Swahili, Swedish; Tamil; Turkish; Urdu; Welsh

(9) SCOTTISH UNIVERSITIES PRELIMINARY EXAMINATION.\* (i) These rules regulate the conditions upon which passes in the Scottish Univs. Prelim. exam. will qualify for the bd.'s Attestation of Fitness, and the rules formerly in force are revoked. A pass awarded (in 1961 or previously) on the lower grade will be accepted as a pass on the ordinary grade.

(ii) The subjs. included in the Prelim. Exam. are the following: Group I: Engl. Group II: on the higher grade: maths, phys., chem.; sci. (any 2 of phys., chem., bot., zool. and geol.); addnl. maths. (i.e. passes at one session in 2 of the 3 papers, dynamics, geom. and elem. analysis). A candidate who passes in any 4 branches of sci. on the higher grade will be deemed to have passed in a subjs. on the higher grade. A pass in higher phys. as a single subjs. will not be accepted along with a pass in higher sci. which includes phys. as a branch. A similar rule *mutatis mutandis* applies to higher chem. If there are 3 passes in subjs. selected from group II, one of these passes must be in maths. On the ordinary grade: maths, phys., chem.; bot.; zool. Group III: (a) Latin; Greek, French; German; Italian; Spanish; Gaelic; Hebrew; Russian, and (b) on the higher grade at credit standard: Afrikaans, Arabic; Bulgarian, classical Chinese; classical Japanese; Czech; Danish, Dutch; Finnish; Hausa, Hindi; Hungarian, Icelandic, Irish; mod. Greek, Norwegian; Pali, Persian; Polish; Portuguese; Roumanian; Sanskrit; Serbo-Croat; Sinhalese; Swahili, Swedish; Tamil; Turkish; Urdu; Welsh. Note.—Classical Greek and mod. Greek are mutually exclusive for purposes of attestation, as are Hindi and Urdu and Afrikaans and Dutch. Candidates offering Hindi are required to use the Devanagari script; those offering Urdu are required to use the modified Persian script. Group IV: on the higher grade: hist.; geog.; music.

(iii) There must be: (a) 4 passes on the higher grade, including at least 2 from subjs. chosen from groups II and III; or (b) 3 passes on the higher grade, 2 at credit standard; or (c) 3 passes on the higher grade, one at very good standard.

(iv) There must be: (a) a pass on the higher grade in subjs. chosen from each of 2 of groups I, II and III; and (b) a pass on the higher or on the

ordinary grade in a subjs. chosen from the third of these groups.

(v) All the passes on the higher grade required to satisfy (iii) and (iv) (a) above must have been gained either at not more than 2 separate sessions of this exam. or at one session of this exam. and at one session of the Scottish Cert. of Educn. exam.

*Special Provision.* The Scottish Univs. Entrance Bd. recognises passes at the ordinary level of the General Cert. of Educn. exam. and on the ordinary grade of the Scottish Cert. of Educn. exam. as counting towards attestation in lieu of passes on the ordinary grade in the Scottish Univs. Prelim. exam. provided that the subjects are identical.

*Note.*—A candidate whose native lang. is other than Engl. and who can show that the bulk of his secondary educn. has been conducted through the medium of a lang. other than Engl. will be deemed to have passed on the higher grade in Engl. if he produces evidence that he has passed in all 3 sections of the Cert. of Proficiency in Engl. awarded by the Cambridge Local Exams. Syndicate or the Univ. of London and may be deemed to have passed on the ordinary grade if he produces evidence to show that he has passed in 2 of the 3 sections.

(10) Applicants who are not less than 23 years of age applying for exemption from the whole or from part of the requirements of the foregoing regts. must furnish to the bd. a satisfactory reason for their not having qualified in the ordinary way at the normal time and must make it clear that there have been obstacles in the way of their satisfying one of the regular tests. The bd. must be satisfied that an applicant's educn. at sch. and subsequently has been of a sufficiently general and liberal character and of his present fitness to enter upon the curriculum for a degree. As a rule an applicant will be asked to submit a cert. from his former headmaster showing to what stage his educn. had advanced and what subjs. it embraced.

## ABERDEEN

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Scottish Univs. Entrance Bd. (see above, p. 1585) and (b) any relevant course requirements (see below).

There is no min. age limit for admission to the univ.

### Course Requirements

In general the Cert. of Educn. Fitness issued by the Scottish Univs. Entrance Bd. is accepted as enabling a student to enter any graduating class. In the case of maths., however, a student will be so admitted only if he has passed in that subjs. on the higher standard in the Scottish Leaving Cert. exam. or the univ. prelim. exam. or an equivalent test, or otherwise satisfies the hd. of

\* Held at the seats of the 4 Scottish univs. and, on timely application, at Lerwick, Kirkwall, Stornoway, Portree, Inverness and Wick.

dept. of his fitness to attend the class: in the case of Greek, Hebrew, Arabic, Syriac and music, a student will be so admitted only if he has passed in the subj. concerned either in the Scottish Leaving Cert. exam or the univ. prelim. exam or has otherwise satisfied the hd. of the dept. concerned of his fitness to attend the class. In the case of Roman law (for the degrees of MA and LL.B.) a student must have passed in Latin in his Leaving Cert. or in the univ. prelim. exam, or satisfied the prof. of jurisprudence that he has an adequate knowledge of the subj.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

Except where candidates are required to apply through the central office (see p. 1597), completed application forms should be returned direct to the sec. of the univ. by Dec. 31 of the yr. preceding that in which admission is sought (law Sept. 30 of yr. in which admission is sought).

### EDINBURGH

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Scottish Univs. Entrance Bd. (see above, p. 1585) and (b) any relevant course requirements (see below).

There is no min. age limit for admission to the univ.

#### Course Requirements

The following prelim. prizes are required for entrance to certain classes and for entering or following the curricula for certain hon. groups. If a student intends to take a curriculum containing a class which requires a special qualif., it is desirable that he should have included this qualif. in his Scottish Cert. of Educa. (or its equivalent), but failing this he may take the subj. in the univ. prelim. exam.

**ARTS AND COMM.** The spec. entrance qualifs. for particular classes or hon. groups in the fac. of arts are set out below. These qualifs. are normally stated in terms of higher or ordinary grade passes in the Scottish Cert. of Educa. or the Prelim. Exam. Equivalent evidence of proficiency will, however, be accepted. Where a pass on the higher grade is specified, a pass at advanced level in the English General Cert. of Educa., or a pass at principal level in the English Higher School Cert., will be accepted. Where a pass on the ordinary grade is specified, a pass at ordinary level in the English General Cert. of Educa., will be accepted.

**Accounting and business method.** Either (a) attendance at and satisfactory performance in the class exam. for the elem. course in accounting and business method or (b) sufficient trg. in an office or elsewhere. (Applications for exemption from attendance at the elem. course in virtue of (b) will be considered).

**Ass. (Greek & Roman) hist.** Latin, on at least the ordinary grade.

**Arabic: ordinary class.** A knowledge of the grammar of the lang. and ability to read a simple text. An elementary class may be taken in the univ.

**Archaeol.: hon.** (a) A pass on the higher grade in a classical or mod. foreign lang.; (b) a pass on the ordinary grade in Latin if the lang. offered in (a) is other than Latin.

**Archit.** For the particular entrance requirements for the classes of architectural design, structural design IV, and hist. and theory of archit. II, apply to the sec. to the univ.

**Astron.** A knowledge of maths as represented by the 1st ordinary course in maths., and of dynamics as represented by the prelim. exam.

**British hist.** See hist.

**Celtic: ordinary class.** A pass in the lang. on the higher grade, or some equivalent evidence of proficiency, which will, if necessary, be tested by an exam. in the 1st week of the autumn term. An elem. class may be taken in the univ.

**Class. lang.** Latin, on at least the ordinary grade.

**Eccles. hist.** Latin, on at least the ordinary grade.

**Engl.: hon.** A pass on the higher grade in Latin or in Greek or in a mod. foreign lang. Students should have a reading knowledge of at least one mod. foreign lang., for those specializing in lit. or medieval studies, preferably French, and in lang., preferably German.

**European hist.: hon.** See hist.

**Fine art.** Hon. A reading knowledge of at least one mod. foreign European lang. Applicants for entry upon the curriculum must pass an entrance test prescribed by the coll. of art.

**French: ordinary class.** A pass in the lang. on the higher grade, or some equivalent evidence of proficiency, which will, if necessary, be tested by an exam. in the 1st wk. of the autumn term.

**French, inter and hon.** Latin, on at least the ordinary grade. For hon. in French lang. and lit., higher Latin is required.

**German: ordinary class.** As for French.

**Greek: ordinary class.** As for Celtic.

**Hebrew.** A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the *Book of Ruth*, or the narratives of *Genesis*. There are univ. classes in elem. and jr. Hebrew.

**History: hon.** Students proceeding to hon. in hist. must have a reading knowledge of a foreign lang., chosen from the following—Latin, French, German, Italian, Spanish and Russian—subject to the restriction that hon. students who wish to specialize in medieval hist. must offer Latin and that those who wish to specialize in mod. history must offer French as one of their 3 langs. A pass on the ordinary grade in the Scottish Cert. of Educa. exam. or some equivalent evidence of proficiency is required for this purpose. A test may, if necessary, be taken in the hist. dept. Spec. requirements for admission to certain classes—European hist. hon. I: Latin and

*either French or German*; European hist. hon. III or IV. a foreign lang. of which i must be French; British hist. documents (a) Latin, British hist. documents (b) Latin and French, France under Charles VII (1422-61) Latin and French, British foreign policy and the diplomatic revolution, 1740-60. French

*Icelandic: ordinary class* As for Celtic.

*Indian: ordinary class* As for Celtic.

*Italian: inter. and hon.* Latin, on at least the ordinary grade.

*Latin: ordinary class* As for French.

*Mathematical phys.* A pass in maths. on the higher grade.

*Maths.* For students entering the 1st ordinary class (in the fac. of arts) a pass in maths. on the ordinary grade is required. For those proceeding directly to the 2nd ordinary class (maths. I in the fac. of sci.), a pass in maths. on the higher grade is required.

*Metecorel.* An elementary knowledge of mechanics, general phys. and heat.

*Musae.* A pass in music on the higher grade.

*Natural philoa. (phys.).* For students entering the 1st ordinary class (in the fac. of arts) a pass in maths. on the ordinary grade is required. For those proceeding to higher courses, a pass in maths. on the higher grade is required.

*Persian: ordinary class.* As for Arabic.

*Rumanian: ordinary class* As for Celtic.

*Sanskrit* As for Arabic.

*Scottish historical studies: hon.* (a) A pass in Latin on the ordinary grade in the Scottish Cert. of Educn. exam. or some equivalent evidence of proficiency. (b) A pass in Latin, French or German on the higher grade if the lang. is offered as an outside sub.

*Scottish history: hon.* As for British hist. hon. I.

*Soc. anthropol. hon.* A reading knowledge of French or German.

*Spanish: ordinary class* As for Celtic.

*Spanish: inter. and hon.* Latin, on at least the ordinary grade. For hon. in Spanish a reading knowledge of French is required.

*Technical maths.* A pass in maths. on the higher grade.

*Turkish: ordinary class* As for Arabic.

*Mus.* For music in arts, a pass in music in the Scottish Cert. of Educn. or some equivalent evidence of proficiency. For the course leading to the BMus, a pass in music on the higher grade in the Scottish Cert. of Educn. and evidence of general proficiency, which may be tested in a qualifying exam. held in June and Sept. consisting of a written paper and an oral and practical test.

**SCI.** The following are the normal minimum spec. qualifs. which must be held by candidates who wish to be considered for admission to first degree courses in—

(a) *Pure sci.—biol. subj.* (bacteriol., biochem., bot., genetics, pharmacol., physiol., psychol., zool.)

and appl. sci.—agric. and for. (i) Maths., higher grade, sci. (chem. I and phys. I), higher grade; or (ii) maths., higher grade, sci. (chem. I and biol. I), higher grade; phys., ordinary grade, or (iii) maths., ordinary grade, sci. (chem. I and phys. I), higher grade, biol. (I and II), higher grade. *Agriculture.* Before admission to the graduation curriculum in agric. an entrant must provide evidence to the satisfaction of the dir. of studies in agric. that he has spent a complete 12 months covering the 4 seasons on an approved farm or that he possesses satisfactory equivalent practical experience.

(b) *Pure sci.—chem.* (i) Maths., higher grade, sci. (chem. I and phys. I), higher grade, or (ii) maths., higher grade, and one of chem. (I and II), higher grade; or phys. (I and II), higher grade, or exceptionally biol. (I and II), higher grade, or sci. (any 2 of the 6 branches), higher grade. Where a candidate is not qualified in phys. or chem. or both he should state why he is not so qualified and why he wishes to read chem.

(c) *Pure sci.—geol.* (i) Maths., higher grade, sci. (chem. I and phys. I), higher grade, or (ii) maths., higher grade, chem. (I and II), higher grade; phys., ordinary grade.

(d) *Pure sci.—mathl. phys. and mathl. sci.* Maths., higher grade, and (for BSc hon. mathl. phys.) phys. (I and II), higher grade or sci. (incl. phys. I), higher grade. (Though desirable, a phys. entrance qualif. is not essential for the course leading to the degree of BSc with hon. in mathl. sci. type B. Students for this degree who have no qualif. in phys. take phys. Ic in their first yr. and do not proceed to further study in phys.)

(e) *Pure sci.—phys.* (i) Maths., higher grade, sci. (chem. I and phys. I), higher grade; or (ii) maths., higher grade; phys. (I and II), higher grade; chem., ordinary grade.

(f) *Appl. sci.—chem. technol., engin., weaving.* Maths., higher grade, sci. (chem. I and phys. I), higher grade.

**LAW.** *Civil law* A pass in Latin on the ordinary grade in the Scottish Cert. of Educn. exam. or some evidence of a sufficient knowledge of the lang.

**MED. AND DENT. SURG.** A student, before commencing the curriculum for graduation, must have the cert. of Attestation of Fitness. Prospective students are advised to incl. chem. phys. and chem. in their sch. or pre-univ. studies.

#### Recognition of Institutions Outside the United Kingdom

**ARTS.** Undergrads. who have attended courses in another univ. may apply for exemption from one (not the final) yr. of the course for MA or for BCom. and from attendance on classes in a subja. Grads. of another univ. may apply for exemption from exam. as well as attendance. Each applicn. will be considered on its merits.

\* Applicants for exemption should be addressed to the dean of the fac. of med.

**SCI.** Certain courses (1st yr. only) may be taken in other univs. or instns. approved by the univ. court. The Higher Sch. Cert. is not regarded as qualifying for exemption.

**LAW.** The arts degree of certain approved univs. in the Commonwealth and in the United States of America is recognized for admission to the LL.B. course. Two of the 3 yrs' study for LL.B. may be taken at one of the following recog. instns.: the univs. of Oxford, Cambridge and Dublin; the Inns of Court; the Madras Law Sch.; the Mbaraja's Law Coll., Travancore; Rangoon Univ.; Calcutta Univ.; Rangoon; McGill Univ.; King's Coll., London School of Economics; and University Coll. (Univ. of London). The exemption granted is only in respect of attendance at classes, not of exam.

**MED. AND DENT. SURG.** Recognition may be given to courses taken in the 1st 2 yrs. of the curriculum at any univ. of the United Kingdom or at such Commonwealth or foreign univ. or coll., or under such teaching as may be recog. by the univ. court.

#### *Exemptions from First-Year Classes*

If the applicant is a grad. in the equivalent fac. of another degree, univ. he may be exempted from 1st-yr. classes.

#### *Method of Application and*

#### *Last Date for Receipt of Applications*

See pp. 1594-1597.

### GLASGOW

Before admission to a degree course in the univ. a student must satisfy (a) the general requirements of the Scottish Univs. Entrance Bd. (see above, p. 1585) and (b) any relevant course requirements (see below).

There is no min. age limit for admission to the univ.

#### *Course Requirements*

##### **ARTS.**

(a) Ordinary classes of Humanity, Greek, French, German, Italian, Hispanic studies, Russian, Polish, Czech, Gaelic, Welsh, Arabic, Norwegian, or class of Hebrew.

(b) Ordinary classes of math., nat. philos. and astron.

Attendance on any of these classes shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that he has passed in the subj. of the class (for (b), in math.), on the higher standard (where different grades exist) in the Scottish Cert. of Educn. exam or the prelim. exam or on the corresp. standard in another exam recog. as equivalent; but a student not so qualified, if, for spec. reasons he has been admitted to any of these classes by the hd. of the dept. con-

ferred and has passed in the subj. of the class (for (b), in math.) on the higher standard in the spring prelim. exam. of the same academic yr., may make application to the senatus for the recognition of such pass, and, if such recognition is granted, his attendance and class record will be allowed to qualify for graduation.

(c) Inter classes of Humanity, Greek, moral philos., higher classes of Engl., French, German, Italian, Hispanic studies, Norwegian, Arabic, Russian, Polish, Czech, Gaelic, Hebrew, logic, ped., pol. econ., hist., Scottish hist., econ. hist., civil law, maths., nat. philos., astron., geog., music, hist. of fine art., classes of Greek hist., Engl. lang., soc. econ., stats. and historical geog.

Attendance on any of these classes shall not qualify for graduation on the higher standard unless, before admission to the class, the student has obtained a pass on the ordinary standard in the subj. in which he is taking a double course.

(d) Higher classes of Engl., French, German, Italian, Hispanic studies, Hebrew, hist.; hon. classes of Engl., French, German, Italian, Hispanic studies, hist. (except mod. hist.), Scottish hist. & lit.

Attendance on any of these classes shall not normally qualify for graduation unless, before admission to the class, the student has produced evidence that he has passed in Latin or Greek on the higher or the ordinary grade in the Scottish Cert. of Educn. exam or the prelim. exam. or in another exam. recog. as equivalent; but the fac. of arts shall have the power to accept in lieu of such a pass such other evidence of proficiency in the subj. concerned as it may deem equivalent.

(e) House class of Hebrew. Attendance on this class shall not normally qualify for graduation in arts unless, before admission to the class, the student has produced evidence that he has passed in Greek on the higher or on the ordinary grade in the Scottish Cert. of Educn. exam, or the prelim. exam. or in another exam. recog. as equivalent, or that he has diligently attended a non-qualifying class in Greek; but the hd. of the dept. shall have power to accept such other evidence of proficiency in Greek as he may deem equivalent. Each case in which this power has been exercised shall be reported to the fac. of arts, and the admission of a student under this provision shall be subject to confirmation by that fac.

(f) Ordinary class of music. Attendance on this class shall not normally qualify for graduation unless, before admission to the class, the student has either (a) produced evidence that he has passed in music on the higher grade in the Scottish Cert. of Educn. exam, or (b) attended the elem. class and satisfactorily performed the class work, but the hd. of the dept. shall have power to accept such other evidence of proficiency in music as he may deem equivalent. Each case in which this power has been exercised shall be reported to the fac. of arts, and the admission of a student



under this provision shall be subject to confirmation by that fac

(g) *Hons. classes of Humanity and Greek* Attendance on either of these classes will not qualify for graduation unless before admission to the class the student has produced evidence that he has passed on the higher grade in the other of the 2 langs. concerned in the prelim. or the Scottish Cert. of Educn. exam. or in another exam. recog. as equivalent

(h) *Hons. class of Gaelic and ordinary class of civil law.* Attendance on this class will not qualify for graduation unless, before admission to the class, the student has passed in the degree exam. in Latin on at least the ordinary standard.

(i) *Ordinary class of educn.* Attendance on this class will not qualify for graduation unless, before admission to the class, the student has passed in the degree exams. in moral philos. and psychol. on the ordinary standard or has obtained spec. exemption from this requirement from the fac.

(j) *Degree of EdB.* Except by spec. permission of the senatus, a candidate who holds his previous degree from a univ. outside the British Isles may not complete the work of the dipl. stage of the degree in less than a yrs

(k) *Bachelor of Music* Attendance on a course in music will not qualify for the degree of BMus unless, before admission, the student has satisfied the prof. of music that he is able profitably to pursue the work of the qualifying course and has passed a spec. exam. in specified subj.

#### Sci.

(1) *Ordinary classes of math., nat. philos. and astron.* Attendance on any of these classes shall not, except as hereinafter provided, qualify for graduation unless, before admission to the class, the student has produced evidence that he has passed in math. on the higher grade in the Scottish Cert. of Educn. exam. or the prelim. exam. or on the corresp. standard in another exam. recog. as equivalent, but a student not so qualified, if for spec. reasons he has been admitted to any of these classes by the hd of the dept. concerned and has passed in math. on the higher grade in the spring prelim. exam. of the same academic yr., may make applicn. to the senatus for the recognition of such pass, and, if such recognition is granted, his attendance and class record will be allowed to qualify for graduation.

(2) *Classes in double-course subjects.* Attendance on any of these classes shall not qualify for graduation on the higher (double-course) standard unless, before admission to the class, the student has passed on the ordinary (single-course) standard in the same subj.

(3) *Before presenting themselves for exam. in a double-course subj.* candidates must have attended at least a qualifying course in that subj. One of these courses must be a higher course, and all courses in any subj. except math., must incl. practical or lab. work.

(4) A qualifying course in any subj. shall nor-

mally extend over 3 terms, but the senatus, with the approval of the univ. court, may sanction partial courses of not less than one term's duration, and 2 or 3 such partial courses shall be held to be equivalent to a full normal course in such cases as the senatus, with the approval of the univ. court, may determine and under such rules as may from time to time be made for that purpose.

#### Engin.

*Maths (1st course) and nat. philos. (ordinary)* Attendance on these classes shall not normally qualify for graduation in engin. unless before admission to the class, the student has produced evidence that in the Scottish Cert. of Educn. exam. or the prelim. exam. or in another exam. recog. as equivalent, he has passed in maths. on the higher grade, or that he has diligently attended a non-qualifying course in maths. but the hd of each of the depts. concerned shall have power to accept such other evidence of proficiency in maths. as he may deem equivalent.

#### Exemption from Courses

Most ordinances for degrees provide for the recognition of attendance at other univs. Each case is considered on its merits. Applicants may be granted exemption from 1st yr. (in fac. of engin., med., etc.) in respect of advanced level passes in the General Cert. of Educn.

#### Method of Application and

#### Last Date for Receipt of Applications

See pp. 1594-1597.

### ST. ANDREWS

Before admission to a degree course in the univ., a student must satisfy (a) the general requirements of the Scottish Univs. Entrance Bd. (see above, p. 1585) and (b) any relevant course requirements (see below).

There is no min. age limit for admission to the univ.

#### Course Requirements

*Arts.* Higher passed in the Scottish Cert. of Educn. exam. or Scottish Univs. Entrance Bd.'s prelim. exam., or advanced level passes in the General Cert. of Educn. exam. (or equivalent qualif.) in (a) Latin or Greek, or (b) maths. and one of French, German, Spanish, Arabic, or (c) two of French, German, Spanish, Arabic.

Students wishing to attend the general class in Greek, Latin, Hebrew, French, German, Spanish, Arabic or music for the purpose of graduation must have a pass in the subj. concerned on the higher grade in the Scottish Cert. of Educn. exam. or some equivalent qualif. The study of German, Spanish, Hebrew and Arabic may be begun at the univ. For entry to classes in math., nat. philos., chem., astron. and stats., see below.

**Soc. Sci.** No sp. course requirements.

**Sci.** In the Scottish Cert. of Educn. exam, or the Scottish Univ. Entrance Bd's prelim. exam., (a) passes in higher maths. and in higher sci.; (b) on the ordinary grade in whichever of the subjs. chem. or phys. has not been passed at the higher grade.

In the G.C.E. exam., passes (a) in 2 of the subjs., appl. maths., biol., but, chem., maths., phys., zool., one of which must be chem., maths., or phys., at least to advanced level, (b) at the ordinary level in whichever of the subjs. chem., maths., or phys. has not been passed at the advanced level.

Qualifs. equivalent to either of the above may be accepted.

Students wishing to attend the gen. or 1st sci. class in maths., appl. maths., natron or phys. for the purpose of graduation must have a pass in maths., either on the higher grade of the Scottish Cert. of Educn. exam., or on the addnl. ordinary or alternative ordinary syllabus of the G.C.E. exam., or some equivalent qualif. Students wishing to attend the gen. or 1st sci. class in chem., or phys. for the purpose of graduation must have passed in sci. (chem. and phys.) on the higher grade of the Scottish Cert. of Educn. exam., or at the ordinary level of the G.C.E. exam. in the separate subjs. chem. and phys. For attendance at the gen. or 1st sci. class in stats. a pass in maths. or appl. maths. in the gen. MA or 1st BSc exam. is a prerequisite. Exemption from these requirements may in sp. circumstances be granted by the hd. of dept. concerned.

**APPL. SCI.** A pass in maths. on the higher grade in the Scottish Cert. of Educn. exam. (or equivalent qualif.). Applicants should also possess a pass in higher sci. (phys. and chem.) in the Scottish Cert. of Educn. exam. or passes at least on the ordinary level in phys. and chem., as separate subjs. in the G.C.E.

**LAW (LLB).** A pass in Latin on at least the ordinary grade in the Scottish Cert. of Educn. exam., or a pass on at least the ordinary level in the G.C.E. exam., or some equivalent qualif.

**MED AND DENT.** No sp. course requirements.

#### *Method of Application*

and

#### *Last Date for Receipt of Applications*

See pp. 1594-1597.

### **BELFAST**

Students must be at least 17 yrs. of age by Oct. 15 of the yr. in which entry is sought.

#### *General Requirements*

The matric. exam. comprises Engl and 4 of the following selected in accordance with the regns. (a) maths.; (b) Greek; (c) Latin; (d) French; (e) German; (f) Italian; (g) Span-

ish; (h) Celtic; (i) Russian; (j) anc. hist.; (k) mod. hist.; (l) phys.; (m) appl. maths.; (n) geog.; (o) chem.; (p) bot.; (q) zool.; (r) for theol. or appl. sci. and technol.—maths. drawing; (s) for facs. of arts, law and mod.—music; (t) for facs. of arts and theol.—Hebrew. For arts, mod. and appl. sci. and technol., one lang. other than Engl. must be taken; for sci. and agric.—French, German or Russian; for sci., agric., med., econ. and appl. sci. and technol., maths. must be taken—candidates for fac. of arts may, under certain conditions, take Latin or Greek instead of maths. For the fac. of appl. sci., phys. is compulsory, for students of chem. technol. and of pharmacaceutics, chem. is compulsory; for the facs. of sci., of agric. and of med., both phys. and chem. are compulsory.

A candidate who has passed in at least 3 subjs., but failed to pass the exam. as a whole, is allowed to complete his matric. at the next subsequent exam.

#### *Exempting Exams.*

Candidates who have passed any of the following exams. are admitted as matriculated students, provided that if they have not passed in all the subjs. required by the univ. for matric. in the respective facs. they shall be required to pass in the addnl. subjs. at one and the same matric. exam.

*Great Britain and Ireland*—Nos. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 (see above, p. 1552), provided that in the cases of nos. 3 to 11 inclusive passes have been obtained in (i) Engl. lang., (ii) a lang. other than Engl., (iii) maths. or an approved sci. and (iv) three other subjs., 2 of the 6 to be passed at advanced level or (v) two other subjs., 3 of the 5 being passed on the same occasion and two of these 3 at advanced level or the cert. has been certified by an appropriate officer of a univ. of England or Wales as satisfying its requirements for matric. Nos. 13 and 14 are subject to certain conditions.

Appropriate passes in the following exams. are also recognized by the univ. as exempting from matric. —

- (a) *Michaelmas jr. freshman term exam.* of Dublin Univ.
- (b) *Matric. exam.* of Nat. Univ. of Ireland
- (c) *Prelim. exam.* of the Incorp. Law Soc. of N. Ireland.
- (d) *School leaving cert.* of Dept. of Educn. of Republic of Ireland.

Consideration will be given to candidates submitting other qualifs. Graduates of an Irish, Scottish, English or Welsh Univ. shall not be required to pass the matric. exam.

#### *Special Exemptions*

Students of mature age (not less than 23) may be admitted without passing the ordinary matric. exam. Applicants are dealt with by a spec. comm. of the necesse council, who may submit candidates to such tests of their fitness to profit by the

courses of the univ. as they may consider necessary in each case. Applicants must be submitted on or before June 1 in each yr.

In the fac. of appl. sci. & technol., sp. matric. may be given to candidates (not less than 19 yrs. old) who have been engaged in full-time industry for at least 3 yrs. and have been awarded an Ord. Natl. Cert. Applicants must be submitted on or before April 1 in each yr.

#### *Course Requirements*

**ARIS.** Candidates for the fac. of arts who intend to enter an honours sch. (except geog., maths, psychol., philos. and econ. hist.) must pass in Greek or Latin at matric. Before entering a graduating course in a lang., in maths, and in music, a candidate must have passed in the subj. at a retrng. exam. Spec. introductory courses are available in Spanish and Greek preliminary to the graduating course.

**AGRIC.** Candidates for entry into the fac. of agric. must satisfy the fac. that they possess a

sound knowledge of the practice of agric., and have been engaged for at least 1 yr. in farm practice.

**APPL. SCI. AND TECHNOL.** Candidates may qualify either according to the regns. for the fac. of sci. or for the fac. of appl. sci.

#### *Exemption from First-Year Courses*

In general, exemption from 1st-yr. courses is not granted except in the fac. of sci. In the fac. of appl. sci. exemption may be given for the whole of the 1st-yr. classes and exams (but not separate subjs.) under stringent regns.

#### *Method of Application and*

#### *Last Date for Receipt of Applications*

Applications may be received by the univ. up to Dec. 31 for admission in Oct. of the following yr. Applicants must not be submitted through the U.C.C.A.'s central office (see below).

## II. METHOD OF APPLICATION

### *The Central Office for University Admissions (see also p. 890)*

1. The univs. have estab'd a central organization to handle the applns. submitted by candidates for admission to first degree and first diploma courses at participating univs. (see p. 1596). This central office is controlled by a central council (the Universities Central Council on Admissions) representative of all the participating univs. A summary follows of the scheme of operation prepared by the U.C.C.A. and accepted by the univs. The scheme described below applies only to applicants permanently resident in the United Kingdom. Overseas applicants for admission to univs. in the U.K. in Oct. 1963 or Oct. 1964 must continue to apply, as at present, either direct to the univ. in which they are interested, or through their normal channels, whichever is required by that univ.'s regns.; they should not apply through the central office. It is, however, hoped to introduce a scheme in which overseas applicants for admission to U.K. univs. in Oct. 1965 will submit their applns. through the central office at some time between Sept. 1964 and the spring of 1965.

2. The scheme, as described below, will come into operation in 1963-64 for candidates entering univs. in Oct. 1964.

3. Outline of the scheme (for candidates entering universities in Oct. 1964):

(a) A candidate must obtain prelim. information about entrance requirements, courses of study, etc., either through his school, or direct

from any univ. to which he chooses to write; the univ. will in turn ask the candidate to obtain an appln. form either from the headmaster or headmistress, or if he has left school, from the central office, and to apply for admission through the central office.

(b) The central office will receive, between Sept. 1, 1963, and Dec. 31, 1963, applns. for admission in Oct. 1964 from students permanently resident in the U.K.

(c) A candidate will be asked on the appln. form issued by the central office to name up to four univs. to which he wishes to apply, he may either list these in order of preference, or state that he has no preference among them, or name the univ. of his first preference and state that he has no preference among the remainder.

(d) The central office will make photographic copies of the applns., which will include a confidential report from the headmaster, headmistress or other referee. These will be simultaneously issued to all the univs. named in the appln.

(e) Each univ. concerned will then deal with the appln., interview the candidate if so desired and make any further contact with the school which seems necessary.

(f) The univ. named at first and second choice by the candidate will be asked to inform the candidate through the central office by March 25 at the latest of one of the following decisions.

(i) an unconditional offer;

(ii) a *quash/ynq* offer, i.e. an offer conditional only upon the candidate's satisfying, the

\* The scheme of course applies to candidates of both sexes.

† A candidate will be allowed to change his order of preference, and his change of mind may be reflected in the manner in which he replies to an offer (see p. 1596).

- univ's entrance requirements for the course desired, expressed in terms of no more than a pass in each of the required exam. subs ;
- (iii) a *conditional offer*, i.e. an offer made subject to the attainment of a specified standard of performance in the General Cert of Educn or other qualifying exam ;
- (iv) a *decision to put the candidate on a waiting list* and to defer further consideration until a later date ;
- (v) a *spectator* ;
- (g) Univs. named by a candidate as those and fourth choice will be able to take similar action before or after March 25, but they will be asked to inform the candidate through the central office not later than July 25
- (h) All the univs. named by a candidate will be informed by the central office of decisions made by other univs. and by the candidate. The forms of reply to be used by candidates are described below
- (i) A candidate who receives an offer of a place, whether unconditional, qualifying or conditional, may either *firmly accept* it, or *provisionally accept* it, or *decline* it
- (j) If he *firmly accepts* it he will be regarded as finally committed to the univ. which made the offer ; he will therefore be advised by the central office that it may not be in his interests to give a firm acceptance of a *qualifying* or *conditional* offer unless he is confident of his ability to fulfil its conditions, and that if he is not confident he should *provisionally accept* the offer
- (k) If he *provisionally accepts* it, this will normally be taken to imply that he is not yet willing to commit himself exclusively to the univ. making the offer, either because he is waiting to hear from a univ. now higher in his list of preferences, or perhaps because he is not certain of his ability to fulfil the conditions of the offer. He will be allowed to hold not more than 2 offers which he has provisionally accepted until after the publication of the results of the G.C.E. or other qualifying exam., subject to (k) below, and to certain other rules.
- (l) If he *declines* the offer he will be entitled to receive any further offers which selectors in other univs. may wish to make
- (m) A candidate who *provisionally accepts* an offer will, when making this decision, be given the opportunity of stating whether or not this is his *preferred offer*. If he names it as such, this will be taken to mean that he is now certain that the univ. making the offer is the univ. of his first choice—whether or not it appeared at the head of his list on his application form—and he will be regarded as firmly committed to this univ. provided only that he satisfies the conditions of the offer. But he will still be allowed to hold another offer as an insurance against the possibility that he may not satisfy the conditions of the preferred offer.
- (n) A candidate need not declare his *preferred offer* until after he has had an opportunity of hearing from all the univs. to which he has applied, i.e. until the end of May ; but in June the central office will ask him to name his preferred offer if he has not already done so. If he has by then provisionally accepted only one offer this will automatically become his 'preferred offer'.
- (o) If a candidate *provisionally accepts* an *unconditional offer* from the univ. named as his first choice on his application form the univ. has the option of withdrawing the offer not more than 14 days after the candidate's decision, since the offer may have been made on the false assumption that the candidate's order of choice remained unchanged. Secondly, if, when *having provisionally accepted* a *qualifying offer* from the univ. named as his first choice on his application form, he does not name it as his preferred offer, this again will be taken to imply that his original order of preference has now changed, and the univ. which made the offer will have the option of withdrawing it not more than 14 days after the candidate's decision
- (p) Accompanying every qualifying or conditional offer transmitted by the central office will be a letter informing the candidate that, if he firmly or provisionally accepts this offer, both the univ. making the offer and the candidate himself thereby undertake specific obligations which must be fulfilled, as follows
- (i) If the candidate satisfies the conditions of the offer, the univ. will confirm it, and the candidate must take up the place offered or withdraw altogether provided that a candidate who receives a confirmed offer must finally—unless he withdraws altogether—accept that offer, which he had previously named as 'preferred'
- (ii) If the candidate has not satisfied the conditions of its offer, the univ. may nevertheless confirm the offer, with the same effect as in (i) above
- (q) A candidate will be informed of the following conditions under which he may hold simultaneously 2 offers made in advance of the publication of the results of the qualifying exams :
- (i) Each offer to be retained must have been provisionally accepted.
- (ii) One of the 2 offers must, by an agreed date in June, be named by the candidate as his preferred offer
- (iii) Whilst a candidate need not declare his preferred offer until after he has had an opportunity of hearing from all the univs. to which he has applied, once he has named his preferred offer, he must abide by this choice. He may not subsequently decline this offer—unless he wishes to withdraw altogether—nor may he substitute another preferred offer for this one.
- (iv) A candidate holding 2 offers may receive a further offer through the central office. He

must then decide which a offers he wishes to retain

(p) After the publication of the results of the G.C.E. or other qualifying exam, a univ. (A) will first send through the central office an acceptance to each candidate to whom it has previously made a qualifying or conditional offer and who has either satisfied the terms of this offer, or otherwise proved acceptable. Some of these candidates will already have committed themselves to univ. A by naming it as their preferred offer or by firmly accepting an offer; others will have stated their preference for univ. B and will not go to univ. A unless they have proved unacceptable to B.

(q) Univ. selectors will then be asked to send to the central office

(i) information about the number of places available in each course, and

(ii) a list in ranking order of the remaining candidates to whom they would wish to offer places: this list will include more

names than the number of places available, since the univ. will not necessarily know how many of the candidates on the ranking list would accept places if offered. The central office will do nothing with these lists until an agreed date by which it will expect to have received all outstanding lists from univs; it will then, without further reference to univs., accept sufficient candidates to fill the places available. Whenever a candidate becomes acceptable at more than one univ. the central office will place him at his preferred univ., and this operation will be completed when all the vacancies notified have been filled or the ranking lists exhausted.

(r) Finally, provision will be made for a univ. dept. which has an insufficient number of suitably qualified applicants for all its vacancies to receive from the central office details of any applicants still unplaced whose qualifications appear suitable.

### APPENDIX

#### List of universities and colleges arranged according to procedure for admission in Oct. 1964

What follows applies only to students permanently resident in the United Kingdom. Other students must apply either direct to the univ. in which they are interested, or through their normal channels, whichever is required by that univ.'s regulations; they should not apply through the central office.

I. *Applications for all facs. and depts. to be made through the Central Office (29 Tavistock Square, London, W.C.1), between Sept. 1 and Dec. 31, 1963:*

#### England (excluding London)

Birmingham—Univ. of  
Bristol—Univ. of  
Durham (1)—Durham Colls.  
Durham—King's Coll., Newcastle  
East Anglia (Norwich)—Univ. of  
Exeter—Univ. of  
Hull—Univ. of  
Keele (North Staffordshire)—Univ. of  
Leeds—Univ. of  
Leicester—Univ. of  
Liverpool—Univ. of  
Manchester (2)—Univ. of  
Nottingham—Univ. of  
Reading—Univ. of  
Sheffield—Univ. of  
Southampton—Univ. of  
Sussex (Brighton)—Univ. of  
York—Univ. of

London (each coll. counts as a separate instn. for applicants). Bedford Coll.; Courtauld Inst. of Art; Imperial Coll. of Science and Technology; King's Coll. (3); London Sch. of Economics (4); Queen Elizabeth Coll.; Queen Mary Coll.; Royal Holloway Coll.; Royal Veterinary Coll.; Sch. of Oriental and African Studies; Sch. of

Pharmacy; Sch. of Slavonic and East European Studies; University Coll. (5); Westfield Coll.; Wye Coll.

Wales (each coll. counts as a separate instn. for applicants). University Coll. of Wales, Aberystwyth; University Coll. of North Wales, Bangor; University Coll. of South Wales & Monmouthshire, Cardiff; University Coll. of Swansea; Welsh National Sch. of Medicine, Cardiff; St. David's Coll., Lampeter.

#### Scotland (6)

Edinburgh—Univ. of

*Notes*—(1) The 2 divisions of the Univ. of Durham count as separate instns. for applicants. Any applicant to the Durham Colls. counts as one applicant, but within this a candidate may name up to 4 of the colls.—in order of preference—without prejudice to his applying elsewhere. *N.B.* A reconstitution of the univ. is planned which will lead to the existence of separate univs. in Durham and Newcastle and will probably take effect from Aug. 1, 1965.

(2) Certain courses are offered both in the fac. of sci. and in the fac. of technol. (Manchester Coll. of Science and Technology). A candidate for Manchester may ask to be considered by both facs., and his application will still be treated as if to one instn.

(3) Applicants for and MB course at King's Coll., London, should be sent direct to any of the 3 associated med. schools (King's, St. George's or Westminster) at which the applicant wishes to be considered for a clin. course (see section II below)

(4) Applicants for the dipl. course in social admin. and for the evening degree courses must be submitted direct to the coll.

(5) Applicants for and MB course and for the course for the dipl. in fine art at University Coll., London, must be sent direct to the coll.

(6) For the other Scottish univs. see section III below

II. *Applicants should be made direct to the university or college concerned independently of the central office.*

(a) All the colls. of Oxford and Cambridge.  
(b) The med. and dent. schools of the Univ. of London\*, namely:

**Medicine.** Charing Cross Hosp. Med. Sch.; Guy's Hosp. Med. Sch.; King's Coll. Hosp. Med. Sch.; London Hosp. Med. Coll.; Middlesex Hosp. Med. Sch.; Royal Free Hosp. Sch. of Med.; St. Bartholomew's Hosp. Med. Coll.; St. George's Hosp. Med. Sch.; St. Mary's Hosp. Med. Sch.; St. Thomas's Hosp. Med. Sch.; University Coll. Hosp. Med. Sch., Westminster Med. Sch.

**Dentistry.** Guy's Hosp. Dent. Sch.; King's Coll. Hosp. Med. Sch.; London Hosp. Med. Sch.; Royal Dental Hosp. Sch. of Dent. Surg.; University Coll. Hosp. Med. Sch.

(c) Birkbeck Coll., London.

\* Certain of these schools only receive students after completion of their pre-clin. course (i.e. they admit to the clin. part of the course).

† Certain courses at the Univ. of St. Andrews are offered both in St. Salvator's Coll. at St. Andrews and in Queen's Coll. in Dundee. A candidate may, if he wishes, name both colls., counting both together as one of his 3 choices in any appln. made through the central office.

(d) 'Institutions with Recognized Teachers' (see pp. 1200-1201).

(e) Queen's Univ., Belfast.

III. *Universities to which special conditions apply.*

#### Scotland

Aberdeen—Univ. of

Glasgow—Univ. of

St. Andrews—Univ. of

Admission arrangements for these three univs. will depend on whether the candidate is permanently resident in Scotland, as follows:

(a) *Candidates domiciled in Scotland*

(i) If seeking admission only to one or more of these 3 univs. must apply to them direct

(ii) If seeking admission also to English univs. or Edinburgh should apply direct to Aberdeen, Glasgow and/or St. Andrews and through the central office to any of the univs. or colls. listed in section I of this appendix.

(b) *Candidates domiciled in England, Wales or Northern Ireland*

(i) If seeking admission only to one or more of these 3 univs. must apply to them direct.

(ii) If seeking admission also to other U.K. univs. not listed in section II of this appendix must apply through the central office, incl. any Scottish univs. in the same appln.

NB—All applications to the Univ. of Edinburgh made by candidates resident anywhere in the U.K. must be made through the central office

## APPENDIX IV

STUDENTS FROM OTHER  
COUNTRIES IN UNITED KINGDOM  
UNIVERSITIES

1961-62

The total number of students from other countries\* enrolled for full-time study or full-time research in United Kingdom universities at the beginning of the academic year 1961-62 was 13,385 (11,523 men, 1862 women), which compares with 12,410 in 1960-61 and 11,284 in 1959-60.

Of these, 8086 came to the United Kingdom from other parts of the Commonwealth, particulars of these students are given in Table A on pp. 1600-1601; 5299 came from non-Commonwealth countries, particulars are given in Table B on pp. 1602-1605.

The subjects studied by the 13,385 students fall into the categories used by the University Grants Committee in its annual *Return from Universities and University Colleges* as follows: Agriculture and Forestry, 297; Arts, 3475; Dentistry, 165; Medicine, 2157; Pure Science, 1984; Social Studies, 2316; Technology, 2958; Veterinary Science, 93.

The countries from which the largest numbers of students came were: India 1660, U.S.A. 1146, Nigeria 1124, Canada 559, Pakistan 526, Iraq 490, Kenya 409, South Africa 397, Australia 380, Ghana 371.

5716 of the 13,385 were postgraduate students (i.e. students working for higher degrees or certain higher diplomas or undertaking postgraduate work though not for a degree or diploma). The subjects studied by the 5716 fall into the U.G.C. categories as follows: Agriculture and Forestry, 114; Arts, 1639; Dentistry, 53; Medicine, 875; Pure Science, 1152; Social Studies, 879; Technology, 990; Veterinary Science, 12. The countries from which the largest numbers of postgraduates came were: India 892, U.S.A. 658, Canada 442, Pakistan 347, Australia 290, United Arab Republic (Egypt) 274, Nigeria 200.

2750 of the students were living in college or hall of residence and 10,635 in lodgings or with friends or relatives.

5850 students were known to hold an award of some kind (fellowship, scholarship, grant, etc.).

The 13,385 students were distributed in the universities and colleges as follows. Birmingham

495, Bristol 221, Cambridge 805, Durham 440 (Durham Colleges 54, King's College, Newcastle 386), Exeter 126, Hull 119, Keele 22, Leeds 565, Leicester 105, Liverpool 352, London 5579, Manchester 806, Nottingham 140, Oxford 990, Reading 150, Sheffield 243, Southampton 113, Wales 417 (Aberystwyth 76, Bangor 80, Cardiff 125, Swansea 126, Welsh National School of Medicine 10), Aberdeen 181, Edinburgh 614, Glasgow 354, Royal College of Science and Technology, Glasgow 151, St. Andrews 241, Belfast 247.

The 5579 students at the University of London were distributed as follows: Courtauld Institute 47, Institute of Archaeology 30, Institute of Education 154, Institute of Historical Research 15, School of Slavonic and East European Studies 15, Warburg Institute 6, Bedford 80, Birkbeck 53, Imperial 626, King's 173, London School of Economics 873, Queen Elizabeth 23, Queen Mary 80, Royal Holloway 18, Royal Veterinary 37, School of Oriental and African Studies 302, School of Pharmacy 38, University 519, Westfield 14, Wye 23, Theological Schools 9, Charing Cross 7, Guy's 93, King's Coll. Hosp. Med. Sch. 13, London Hosp. Med. Coll. 31, Middlesex 38, Royal Dental 16, Royal Free 49, St. Bartholomew's 46, St. George's 9, St. Mary's 47, St. Thomas's 30, University Coll. Hosp. Med. Sch. 34, Westminster 14, British Postgraduate Med. Fed. 652, London School of Hygiene 90, Institutions with Recognized Teachers 1065 (Battersea 140, Chelsea 61, Coll. of Estate Management 25, East Malling 1, Jews' 12, Maus Grey 1, Northampton 52, Northern 47, Rothamsted 16, R. Coll. of Music 4, St. J. Cross 49, Trinity Coll. of Music 1, West Ham 262, Woolwich 304).

The analysis below gives the total number of students from each of the various overseas countries, as well as some idea of their distribution at universities here.

## ASIA—Total, 5021

Aden—47, Afghanistan—4, Bahrain—6, Burma—72, London 49, Manchester 5, Edinburgh 4, Cambodia—1, Ceylon—251, London

\* For *Yearbook* purposes a student is 'from another country' if his permanent home residence is overseas, i.e. one whose parents are only temporarily resident or employed abroad is not included, nor is one who was born abroad and may therefore have a foreign nationality, but who is now living permanently in the United Kingdom. For the purposes of this list the Channel Islands are not treated as 'abroad'.

† External students are not included.

151, Cambridge 25, Oxford 14, Liverpool 10, Cyprus—142. London 63, Manchester 18, Birmingham 8, Durham 8. *Dubai*—1. *Faroes*—7. *Hong Kong*—275. London 150, Manchester 22, Birmingham 17, Cambridge 15. *India*—1660. London 797, Manchester 127, Leeds 125, R C S T Glasgow 108, Cambridge 68, Oxford 63, Sheffield 61. *Indonesia*—47. *Japan*—490. London 208, Manchester 65, Wales 63, Birmingham 41. *Iran*—121. London 72, Leeds 15, Oxford 7. *Japan*—67. London 29, Cambridge 8, Oxford 8. *Jordan*—59. London 33. *Korea*—23. *Kuwait*—31. *Lebanon*—30. *Malaya*—303. London 137, Belfast 44, Edinburgh 14. *Nepal*—9. *North Borneo*—10. *Pakistan*—526. London 254, Manchester 58, Birmingham 32, Cambridge 29, Oxford 24, Edinburgh 23. *Peru*—279. London 120, Manchester 44, Leeds 25, Birmingham 23. *Philippines*—28. *Qatar*—2. *Sarawak*—17. *Saudi Arabia*—20. *Singapore*—131. London 77, Belfast 7. *Syria*—43. *Thailand*—149. London 72, Cambridge 11, Liverpool 9, Manchester 9. *Tibet*—1. *Turkey*—149. London 42, Manchester 33, Leeds 28. *Vietnam*—17. *Yemen*—2.

## AFRICA—Total, 3865

*Algeria*—1. *Angola*—7. *Basutoland*—10. *Cameroon Republic*—10. *Cape Verde Islands*—2. *Congo (Leopoldville)*—2. *Ethiopia*—15. *French Somaliland*—1. *Gambia*—23. *Ghana*—371. London 148, Edinburgh 29, Belfast 23, Manchester 21. *Kenya*—400. London 108, Wales 33, Edinburgh 31, Cambridge 22, Oxford 22. *Lesotho*—7. *Liberia*—27. *Madagascar Republic*—1. *Mali*—204. London 64, Edinburgh 15, Wales 13, Belfast 12, Glasgow 11. *Mozambique*—6. *Mozambique*—3. *Nigeria*—1124. London 467, Glasgow 76, Manchester 67, Durham 59, Edinburgh 51, Wales 44, Belfast 42, Leeds 36. *Rhodesia and Nyasaland*—226 (Northern Rhodesia 69, Nyasaland 20, Southern Rhodesia 187). London 69, Oxford 28, Edinburgh 23, Cambridge 16. *Rwanda-Urundi*—1. *Senegal*—9. *Serra Leone*—110. London 22, Durham 21, Birmingham 7, Aberdeen 7. *Sierra Leone Republic*—22. *South Africa*—197. London 169, Oxford 71, Cambridge 57, Leeds 13. *Sudan*—153. London 62, Edinburgh 20, Leicester 9, Manchester 9. *Swaziland*—2. *Tanganyika*—150. London 44, Wales 14, Glasgow 12, Cambridge 10, Birmingham 8. *Togo*—2. *Tunisia*—7. *Uganda*—218. London 62, Wales 25, Glasgow 13, St Andrews 13, Edinburgh 12. *United Arab Republic (Egypt)*—344. London 157, Manchester 41, Leeds 36, Birmingham 17. *Zanzibar*—26.

## AMERICA—Total, 2571

*Argentina*—35. *Bahamas*—15. *Barbados*—44. *Bermuda*—15. *Bolivia*—5. *Brazil*—14. *British Guiana*—153. London 63, Edinburgh 17, Belfast 13, Wales 8, Glasgow 7. *British Honduras*—13. *Canada*—559. London 309, Oxford 63, Cambridge 62, Birmingham 31.

Particulars of overseas student numbers for 1962-63, which were not available at the time of going to press, may be obtained on request from the Secretary, A.U.B.C., 36 Gordon Sq., London, W.C.1.

*Chile*—25. *Colombia*—21. *Costa Rica*—2. *Cuba*—3. *Curaçao*—1. *Dominica*—3. *Dominican Republic*—1. *Ecuador*—2. *Guatemala*—12. *Guatemala*—1. *Haiti*—1. *Jamaica*—143. London 37, Edinburgh 28, Oxford 13, Wales 11. *Mexico*—14. *Nicaragua*—2. *Nicaragua*—1. *Panama*—7. *Paraguay*—1. *Peru*—9. *Puerto Rico*—2. *St Kitts Nevis*—8. *St Lucia*—6. *St Vincent*—7. *Salvador*—1. *Trinidad and Tobago*—244. London 61, Edinburgh 25, Birmingham 22, Wales 17. *U.S.A.*—1146. London 409, Oxford 307, Cambridge 131, Edinburgh 53, St Andrews 44. *Uruguay*—2. *Venezuela*—46. *Virgin Islands*—1.

## EUROPE—Total, 1364

*Austria*—10. *Belgium*—33. *Bulgaria*—7. *Czechoslovakia*—3. *Denmark*—27. *Finland*—17. *France*—57. London 19, Cambridge 12, Oxford 12. *Germany*—206. London 51, Durham 26, Leeds 29, Exeter 12, Oxford 12. *Gibraltar*—19. *Greece*—201. London 100, Manchester 28, Durham 14, Leeds 14. *Hungary*—21. *Iceland*—27. *Ireland, Republic of*—911. London 30, Cambridge 16, Liverpool 10. *Italy*—64. London 26, Cambridge 10. *Luxembourg*—5. *Malta*—48. *Norway*—1. *Netherlands*—54. London 17, Cambridge 7. *Norway*—216. Glasgow 32, Durham 29, London 24, Manchester 24, Aberdeen 21, Edinburgh 21. *Poland*—47. *Portugal*—53. London 19, Leeds 11. *Romania*—4. *Spain*—56. London 26, Cambridge 5, Oxford 5. *Sweden*—30. *Switzerland*—43. *U.S.S.R.*—12. *Yugoslavia*—42.

## AUSTRALASIA—Total, 563

*Australia*—379. London 176, Oxford 86, Cambridge 77. *Fiji*—11. *Gilbert and Ellice*—1. *New Zealand*—170. London 64, Cambridge 41, Oxford 35. *Papua*—1. *Tonga*—1.

## Statelen—1

There were also 1981 students from other countries (1493 men; 488 women) enrolled for part-time study at part-time research in United Kingdom universities at the beginning of the academic year 1961-62. Of these, 948 came to the United Kingdom from other parts of the Commonwealth. 995 of the 1981 were post-graduate students. There were part-time overseas students enrolled at all universities except Cambridge, Keele, Leicester, Oxford, Sussex, R.C.S.T. Glasgow and Belfast, those with the largest numbers being: London 1073, Edinburgh 419, Glasgow 76, Liverpool 70, Bristol 64, Manchester 57, Sheffield 34, Durham 30, Wales 30. 690 of the 1981 came from Asia, 520 from Europe, 385 from America, 283 from Africa and 103 from Australasia, the countries from which the largest numbers came were India 358, U.S.A. 261, Germany 248.



Table A: Commonwealth Countries

STUDENTS FROM OTHER PARTS OF THE COMMONWEALTH  
IN UNITED KINGDOM

	Total	Male	Female	In College or Hall	In Lodgings, with Friends, etc	Known to hold an Award (Fellow- ship, Scholarship, Grant, etc.)	No Award Known	Undergraduate	Postgraduate
<b>MEMBER COUNTRIES</b>									
Australia *	380	320	51	118	262	162	218	90	290
Canada	559	480	79	119	440	270	280	117	442
Ceylon	251	213	38	40	205	94	157	104	147
Cyprus	142	137	5	15	127	42	100	113	29
Ghana	371	350	21	66	305	203	78	290	81
India	1000	1476	184	194	1460	374	1286	768	592
Malaya	303	268	35	37	266	111	192	249	54
New Zealand	170	145	25	30	140	86	84	42	128
Nigeria	1124	1014	110	216	888	520	604	924	200
Pakistan	520	479	41	64	462	232	284	179	347
Sierra Leone	110	89	21	16	74	80	30	96	14
Tanganyika	150	140	10	41	109	72	78	131	19
<b>Total</b>	<b>5746</b>	<b>5120</b>	<b>626</b>	<b>1042</b>	<b>4704</b>	<b>2343</b>	<b>3401</b>	<b>3103</b>	<b>2643</b>
Central African Federation	216	185	31	80	136	127	89	150	66
<b>UNITED KINGDOM DEPENDENCIES</b>									
Aden	47	43	4	11	36	32	15	41	6
Bahamas	15	12	3	4	11	9	6	12	3
Basutoland	10	8	2	6	4	9	1	8	2
Bermuda	15	7	8	4	11	11	4	12	3
British Guiana	153	110	44	31	122	43	110	131	22
British Honduras	13	10	3	2	11	12	1	9	4
Fiji	11	11	—	6	5	8	3	7	4
Gambia	23	22	1	7	16	14	9	20	3
Gibraltar	19	17	2	11	8	13	6	13	0
Gilbert and Ellice Islands	1	1	—	1	—	1	—	—	1
Hong Kong	275	204	71	76	199	66	209	172	103
Kenya	400	338	62	136	264	182	218	350	50
Malta	48	44	4	7	41	33	15	30	18
Mauritius	204	186	18	47	157	54	150	182	20
North Borneo	10	9	1	2	8	9	1	8	2
Starwuk	17	14	3	5	12	8	9	16	1
Seychelles	9	8	1	—	9	3	6	8	1
Singapore	131	110	21	22	109	36	95	96	35
Swaziland	2	2	—	—	2	1	1	2	—
Tonga	1	1	—	1	—	—	—	1	—
Uganda	218	200	18	65	153	131	87	190	28
West Indies Federation	476	357	119	115	361	254	222	370	106
incl. Trinidad and Tobago	244	183	61	60	184	122	122	207	43
Jamaica	143	97	46	34	109	91	59	103	40
Zanzibar	26	24	2	3	23	14	12	23	3
<b>Total</b>	<b>3124</b>	<b>1747</b>	<b>377</b>	<b>502</b>	<b>1562</b>	<b>943</b>	<b>1181</b>	<b>1703</b>	<b>421</b>
<b>GRAND TOTAL</b>	<b>8866</b>	<b>7052</b>	<b>1024</b>	<b>1644</b>	<b>6402</b>	<b>3415</b>	<b>4671</b>	<b>4956</b>	<b>3230</b>

\* Including 1 student from Papua

ENROLLED FOR FULL-TIME STUDY OR FULL-TIME RESEARCH  
UNIVERSITIES, 1961-62

Agriculture & Forestry	Arts	Dentistry	Medicine	Pure Science	Social Studies	Technology	Veterinary Science	Total	
2 (8)	100 (57)	8 (7)	97 (86)	73 (67)	52 (34)	38 (34)	3 (3)	380	MEMBER COUNTRIES
7 (8)	162 (123)	—	42 (26)	115 (108)	114 (66)	119 (110)	1 (1)	559	Australia *
7 (3)	57 (44)	4 (2)	68 (37)	48 (35)	24 (18)	21 (13)	2 (1)	251	Canada
3 (1)	20 (15)	—	17 (15)	19 (15)	24 (2)	48 (6)	—	142	Ceylon
15 (1)	47 (23)	18	120 (15)	27 (13)	94 (17)	47 (12)	3	371	Cyprus
24 (18)	233 (145)	21 (13)	202 (172)	223 (184)	210 (101)	741 (258)	6 (1)	1660	Ghana
17	47 (17)	6 (2)	77 (8)	31 (13)	42 (2)	79 (13)	4	303	India
8 (4)	54 (37)	4 (4)	33 (27)	54 (45)	8 (3)	8 (6)	1 (1)	170	Malaya
36 (11)	257 (15)	18	225 (23)	114 (24)	323 (45)	132 (22)	19	1124	New Zealand
10 (9)	98 (67)	4 (4)	37 (37)	152 (120)	78 (34)	121 (67)	6	526	Nigeria
4	45 (9)	2	24 (1)	9	14 (1)	12 (3)	—	110	Pakistan
6	46 (11)	1	25 (3)	14 (1)	21 (1)	26 (1)	1	150	Serra Leone
147 (63)	1175 (622)	86 (12)	985 (429)	879 (627)	1004 (318)	1422 (544)	48 (7)	5746	Tanganyika
9	72 (38)	1	47 (9)	18 (7)	35 (3)	24 (8)	10 (1)	216	Total
—	11 (5)	1	17 (1)	4	5	9	—	47	Central African Federation
—	6 (3)	—	5	2	2	—	—	15	UNITED KINGDOM
1	4 (1)	—	2	—	2 (1)	1	1	10	DEPENDENCIES
11	24	—	2	1 (1)	1	—	—	15	Aden
5	32 (10)	2	40 (2)	22 (3)	30 (6)	21 (1)	—	153	Bahamas
2	6 (4)	—	1	—	—	—	—	10	Bantoland
1	4 (1)	—	3	—	—	—	—	11	Bermuda
1	6 (3)	—	7 (1)	—	—	—	—	11	British Gambia
1	8 (5)	—	3	—	—	—	—	23	British Honduras
1	1 (1)	—	7 (1)	—	—	—	—	19	Fiji
1	58 (31)	3 (1)	63 (21)	56 (14)	27 (7)	67 (29)	—	275	Gambia
16 (1)	110 (22)	5	99 (9)	48 (7)	36 (4)	58 (7)	8	400	Gibraltar
2 (1)	23 (8)	1 (1)	5 (1)	5 (2)	6 (2)	6 (1)	—	48	Gilbert and Ellice Islands
7	50	—	50 (6)	70 (4)	1	18 (2)	—	204	Hong Kong
—	8 (1)	—	3	—	—	—	—	10	Kenya
—	5	1	1	1 (1)	1	—	—	17	Malta
—	17 (11)	1 (1)	31 (7)	21 (5)	12 (1)	40 (9)	1 (1)	91	Mauritius
—	1	—	—	—	—	—	—	2	North Borneo
15	40 (11)	7	61 (9)	34 (2)	27 (3)	30 (1)	4	218	Sarawak
11 (1)	154 (53)	5	32 (9)	42 (11)	24 (10)	74 (16)	4	476	Seychelles
4 (1)	59 (22)	2	46 (5)	22 (3)	24 (1)	37 (9)	—	244	Singapore
4	87 (22)	3	14 (2)	16 (7)	23 (5)	28 (4)	4	143	Swaziland
—	10 (1)	—	5 (2)	2	3	5	1	26	Tonga
61 (3)	576 (181)	28 (3)	478 (72)	321 (50)	290 (43)	350 (68)	20 (1)	2124	Uganda
117 (66)	1823 (842)	115 (35)	1510 (510)	1218 (684)	1320 (364)	1796 (620)	78 (9)	8086	West Indies Federation
—	—	—	—	—	—	—	—	—	East Trinidad and Tobago
—	—	—	—	—	—	—	—	—	Jamaica
—	—	—	—	—	—	—	—	—	Zanzibar
—	—	—	—	—	—	—	—	—	Total
—	—	—	—	—	—	—	—	—	GRAND TOTAL

Note.—Countries are arranged under the general headings which were appropriate at the time of the compilation of the statistics early in 1962. The subject headings conform to the categories used by the University Grants Committee in its annual *Revenues* (e.g. Social Studies includes Economics and Law). The numbers in brackets are those of the postgraduate students (see p. 1598 for definition) included in the previous figure, e.g. of the 200 students from Australia who were studying arts, 57 were doing so at the postgraduate level.

Table B: Foreign Countries

STUDENTS FROM OUTSIDE THE COMMONWEALTH  
IN UNITED KINGDOM

	Total	Male	Female	In College or Hall	In Lodgings, with Friends, etc.	Known to hold an Award (Fellowship, Scholarship, Grant, etc.)	No Award Known	Undergraduate	Postgraduate
Afghanistan	4	4	—	—	4	3	1	—	4
Algeria	1	1	—	—	—	—	—	1	—
Angola	1	1	—	1	1	1	—	1	—
Argentina	35	24	11	9	26	14	21	17	18
Austria	10	4	6	1	9	4	6	4	6
Bahrain	6	6	—	2	4	2	4	—	—
Belgium	33	25	8	11	22	7	26	16	17
Bolivia	5	5	—	—	—	—	—	—	—
Brazil	14	11	3	3	11	9	5	6	8
Bulgaria	7	4	3	2	5	7	—	5	2
Burma	72	65	7	11	61	47	25	27	45
Cambodia	1	1	—	—	1	—	1	1	—
Cameroon Republic	10	10	—	3	7	9	1	7	3
Cannary Islands	2	2	—	1	1	—	2	1	1
Chile	25	21	4	2	23	14	11	7	18
Colombia	21	18	3	1	20	4	17	7	14
Congo (Leopoldville)	2	2	—	2	—	1	1	2	—
Costa Rica	2	2	—	—	2	1	1	—	2
Cuba	3	3	—	—	3	3	—	1	2
Curaçao	1	—	1	1	—	—	1	1	—
Czechoslovakia	3	3	—	—	3	3	—	—	3
Denmark	27	16	11	9	18	6	21	19	8
Dominican Republic	1	1	—	—	1	—	1	—	1
Dubai	1	1	—	—	1	—	1	1	—
Ecuador	2	2	—	2	—	1	1	1	1
Ethiopia	15	15	—	3	12	10	5	10	5
Finland	17	12	5	3	14	8	9	10	7
Formosa	7	7	—	4	3	6	1	—	7
France	57	45	12	17	40	19	38	32	25
French Somaliland	1	1	—	—	1	1	—	1	—
Germany	206	151	55	66	140	84	122	163	43
Greece	201	182	19	22	179	63	138	74	127
Guatemala	1	1	—	—	1	—	1	—	1
Haiti	1	1	—	—	1	1	—	—	1
Hungary	11	9	2	1	10	11	—	7	4
Iceland	27	24	3	2	25	8	19	21	6
Indonesia	47	43	4	10	37	20	27	24	23
Iraq	490	452	38	33	457	315	175	318	172
Ireland, Republic of	91	69	22	22	69	40	51	26	65
Israel	121	101	20	9	112	34	87	51	70
Italy	64	52	12	14	50	38	46	36	28
Japan	67	63	4	13	54	20	37	16	51
Jordan	59	51	8	11	48	23	34	44	15
Kenya	23	21	2	5	18	13	10	4	19
Kuwait	21	20	1	7	24	21	10	27	4
Laos	1	1	—	—	—	1	—	—	1
Lebanon	30	27	3	7	23	10	20	15	14

ENROLLED FOR FULL-TIME STUDY OR FULL-TIME RESEARCH  
UNIVERSITIES, 1961-62 \*

Agriculture & Forestry	Arts	Dentistry	Medicine	Pure Science	Social Studies	Technology	Veterinary Science	Total	
—	2 (a)	—	1 (1)	—	—	1 (1)	—	4	Afghanistan
—	1	—	—	—	1	—	—	1	Algeria
4	10 (4)	—	2 (a)	9 (7)	5 (4)	5 (1)	—	1	Angola
—	4 (3)	—	—	1	4 (3)	—	1	35	Argentina
—	—	—	1	—	3 (1)	—	—	10	Austria
—	13 (6)	—	6 (3)	4 (1)	9 (6)	—	—	6	Bahrain
—	1 (1)	1 (1)	1 (1)	—	—	1 (1)	—	33	Belgium
—	5 (3)	—	2 (a)	1 (1)	1	2 (1)	—	5	Bolivia
—	4	—	1 (1)	2 (1)	1	5 (a)	—	14	Brazil
—	8 (8)	2	23 (17)	10 (7)	15 (11)	14 (a)	—	7	Bulgaria
1 (1)	5 (a)	—	2	—	1	1	—	74	Burma
—	7 (3)	—	7 (6)	3 (3)	6 (5)	2 (1)	—	1	Cambodia
—	3 (3)	—	4 (4)	1	6 (3)	7 (5)	—	10	Cameroun Republic
—	1	1 (1)	—	—	1 (1)	—	—	2	Canary Islands
—	—	—	—	—	3 (a)	—	—	25	Chile
—	—	—	—	—	—	—	—	21	Colombia
—	—	—	—	—	1 (1)	—	—	2	Congo (Leopoldville)
—	—	—	—	—	—	—	—	2	Costa Rica
—	—	—	—	—	—	—	—	3	Cuba
1 (1)	16 (a)	—	1 (1)	2 (a)	4 (1)	4 (a)	—	1	Curaçao
—	—	—	1 (1)	1 (1)	—	—	—	3	Czechoslovakia
—	—	—	—	—	—	—	—	27	Denmark
—	—	—	—	—	—	—	—	1	Dominican Republic
—	—	—	—	—	—	—	—	1	Dubai
—	—	—	—	—	2 (1)	—	—	2	Ecuador
—	—	—	—	—	8 (3)	3 (1)	—	15	Ethiopia
1 (1)	7 (1)	—	6 (1)	—	1 (1)	3 (a)	—	17	Finland
—	—	—	1 (1)	—	1 (1)	1 (1)	—	7	Formosa
—	23 (7)	1	1 (1)	6 (4)	18 (9)	8 (4)	—	57	France
—	—	—	—	—	—	—	—	1	French Somaliland
3 (a)	143 (18)	2 (a)	4 (1)	16 (8)	24 (10)	19 (9)	—	206	Germany
—	—	—	27 (28)	21 (14)	55 (44)	66 (22)	—	201	Greece
—	—	—	—	—	1 (1)	—	—	1	Guatemala
—	—	—	—	—	—	1 (1)	—	1	Haiti
—	—	—	—	—	2 (a)	2 (1)	—	11	Hungary
—	7 (a)	—	1 (1)	11 (a)	3 (1)	3	—	27	Iceland
3 (a)	14 (9)	—	6 (5)	5 (a)	7 (a)	15 (5)	—	47	Indonesia
4 (4)	56 (46)	2 (a)	37 (33)	108 (39)	45 (21)	230 (29)	—	490	Iraq
—	10 (9)	4 (3)	19 (15)	24 (19)	8 (4)	15 (11)	1	91	Ireland, Republic of
—	28 (22)	—	9 (5)	14 (8)	36 (26)	32 (9)	2	121	Israel
—	12 (5)	—	0 (6)	0 (5)	22 (10)	15 (a)	—	64	Italy *
1 (1)	19 (13)	—	3 (a)	9 (7)	24 (16)	11 (10)	—	67	Japan
—	10 (3)	—	25 (9)	3 (1)	9 (1)	12 (1)	—	59	Jordan
—	6 (3)	—	—	7 (7)	4 (3)	6 (6)	—	23	Korea
—	15 (1)	—	6 (a)	1	4	5 (a)	—	31	Kuwait
—	1	—	—	—	—	—	—	1	Laos
—	8 (5)	—	4 (a)	2 (1)	7 (a)	9 (a)	—	30	Lebanon

\* See footnote to page 1601

[continued on next page]

Table B: Foreign Countries (contd.)

STUDENTS FROM OUTSIDE THE COMMONWEALTH  
IN UNITED KINGDOM

	Total	Male	Female	In College or Hall	In Lodgings, with Friends, etc	Known to hold an Award (Fellowship, Scholarship, Grant, etc.)	No Award Known	Undergraduate	Postgraduate
Liberia	7	5	2	3	4	3	4	3	4
Libya	27	26	1	1	24	17	10	25	2
Luxembourg	5	5	—	—	3	2	3	4	1
Malagasy Republic	1	1	—	—	1	—	1	1	—
Mexico	14	12	2	1	13	4	10	6	8
Monaco	1	1	—	—	1	1	—	—	1
Morocco	6	6	—	2	4	2	4	6	—
Mozambique	3	3	—	1	2	1	2	2	1
Nepal	9	8	1	—	9	6	3	4	5
Netherlands	54	44	10	19	35	24	30	33	21
Nicaragua	1	1	—	—	—	—	1	—	1
Norway	216	197	19	40	176	34	132	192	24
Paraguay	7	5	2	1	6	3	4	3	4
Peru	1	1	—	—	1	1	—	—	—
Peru	279	250	29	37	242	116	163	197	82
Philippines	9	8	1	5	4	3	6	4	5
Poland	28	24	4	1	27	23	5	9	19
Portugal	27	20	7	3	24	18	9	2	25
Puerto Rico	53	41	12	6	47	31	22	24	29
Qatar	2	1	1	1	1	1	1	—	2
Romania	2	2	—	—	2	1	1	—	2
Ruanda-Urundi	4	4	—	2	2	3	1	1	3
Salvador	1	1	—	1	—	—	1	1	—
Saudi Arabia	1	1	—	—	1	1	—	—	1
Somali Republic	20	19	1	2	18	13	7	7	13
South Africa	22	22	—	8	14	18	4	21	1
Spain	397	351	46	119	278	144	253	206	191
Sudan	56	51	5	11	45	20	36	25	31
Sweden	153	148	5	19	134	125	28	61	92
Switzerland	30	17	13	11	19	7	23	19	11
Syria	43	34	9	16	27	11	32	30	13
Thailand	41	41	—	4	39	11	32	28	15
Tibet	149	116	33	35	114	86	63	87	62
Togo	1	1	—	—	1	—	1	—	—
Tunisia	2	2	—	2	—	2	—	1	1
Turkey	7	6	1	—	7	3	4	5	2
U.A.R. (Egypt)	149	132	17	15	134	106	43	98	51
Uruguay	344	289	55	16	328	206	138	70	274
U.S.A.	2	1	1	1	1	2	—	1	1
U.S.S.R.	1146	895	251	348	798	438	708	488	658
Venezuela	12	11	1	9	3	10	2	—	12
Vietnam	46	40	6	2	44	25	21	16	30
Yemen	17	9	8	4	13	3	14	11	1
Yugoslavia	2	1	1	—	2	1	1	—	1
Stateless	42	27	15	6	36	32	10	7	35
Total	5299	4471	828	1066	4233	2435	2864	2713	2586

ENROLLED FOR FULL-TIME STUDY OR FULL-TIME RESEARCH  
UNIVERSITIES, 1961-62 \*

Agriculture & Forestry	Arts	Dentistry	Medicine	Pure Sciences	Social Studies	Technology	Veterinary Sciences	Total	
—	3 (2)	—	—	1 (1)	3 (1)	—	—	7	Liberia
—	2	—	6	6 (1)	3 (1)	—	2	27	Libya
—	3	—	1 (1)	—	1	—	—	5	Luxembourg
—	4	—	—	2 (1)	8 (7)	2	—	1	Malagasy Republic
—	—	—	—	—	—	1 (1)	—	1	Mexico
—	1	—	1	—	2	3	—	6	Monaco
—	—	—	—	—	—	3 (1)	—	3	Morocco
—	2 (1)	—	2 (1)	1 (1)	3 (2)	1	—	9	Mozambique
—	24 (7)	1	3 (1)	4 (3)	8 (2)	13 (8)	—	54	Nepal
—	—	—	1 (1)	—	—	—	—	1	Netherlands
—	16 (4)	8	63 (4)	10 (7)	19 (4)	100 (5)	—	216	Nicaragua
—	2 (1)	—	1 (1)	1 (1)	3 (2)	—	—	7	Norway
—	—	—	—	—	—	—	—	2	Panama
—	—	—	—	—	—	—	—	1	Paraguay
4 (2)	46 (28)	5 (2)	59 (15)	41 (13)	22 (11)	102 (11)	—	279	Peru
—	2 (1)	—	3 (3)	2 (1)	2	2	—	9	Penn
—	9 (7)	—	3 (2)	2 (1)	11 (7)	4 (2)	—	28	Philippines
1 (1)	7 (6)	—	3 (3)	2 (1)	1 (1)	11 (11)	—	27	Poland
2 (1)	11 (3)	—	5 (4)	18 (18)	6 (2)	11 (1)	—	53	Portugal
—	1 (1)	—	—	1 (1)	—	—	—	2	Puerto Rico
—	1 (1)	—	1 (1)	—	—	—	—	2	Qatar
—	—	—	—	2 (2)	1	—	—	4	Roumania
—	—	—	1	—	—	—	—	1	Rwanda-Urundi
—	1 (1)	—	—	—	—	—	—	1	Salvador
—	13 (11)	—	1 (1)	1 (1)	2	3	—	20	Saudi Arabia
3	7 (1)	—	2	—	9	1	—	22	Samoa Republic
6 (5)	94 (35)	13 (1)	78 (36)	83 (55)	66 (21)	60 (28)	3	397	South Africa
—	6 (1)	—	4 (2)	11 (11)	26 (14)	9 (3)	—	56	Spain
27 (14)	59 (33)	—	16 (14)	19 (14)	18 (8)	11 (5)	3 (3)	153	Sudan
—	19 (2)	1 (1)	2 (2)	—	7 (6)	1	—	30	Sweden
1	14 (7)	—	8 (5)	9 (2)	7 (3)	4	—	43	Switzerland
—	9 (6)	—	4 (1)	5 (2)	4 (2)	21 (4)	—	43	Syria
3 (1)	14 (8)	2 (1)	32 (14)	25 (14)	31 (8)	42 (16)	—	149	Thailand
—	1 (1)	—	—	—	1	—	—	1	Tibet
—	6 (2)	—	—	—	1	—	—	7	Togo
1 (1)	12 (5)	1 (1)	4 (4)	33 (6)	27 (16)	81 (18)	—	149	Tunisia
9 (8)	81 (81)	3 (2)	38 (32)	69 (57)	39 (26)	101 (66)	2 (2)	344	Turkey
—	—	—	—	—	—	—	—	2	U.A.R. (Egypt)
3 (3)	610 (323)	1 (1)	72 (43)	131 (94)	290 (162)	38 (32)	1	1146	Uruguay
—	7 (7)	—	—	1 (1)	1 (1)	3 (3)	—	12	U.S.A.
—	7 (5)	—	14 (14)	5 (4)	10 (2)	10 (5)	—	46	U.S.S.R.
—	4 (2)	—	—	4 (3)	5 (1)	3	—	17	Venezuela
—	1 (1)	—	—	—	—	1	—	2	Vietnam
—	11 (6)	—	8 (8)	11 (9)	6 (6)	6 (6)	—	42	Yemen
—	—	—	—	—	—	—	—	1	Yugoslavia
—	—	—	—	—	—	—	—	1	Stateless
80 (48)	1592 (797)	30 (18)	627 (365)	766 (468)	987 (515)	1162 (370)	15 (5)	5299	Total

\* See footnote to page 1601

## APPENDIX V

# BRITISH ACADEMIC INSTITUTIONS OUTSIDE THE COMMONWEALTH

### BRITISH INSTITUTE IN PARIS

Université de Paris:  
Institut Britannique

*Dir.*—F. H. Searle, MA *Durb.*, MLitt *Cambr.*,  
FRSL. *Postal address*: British Institute in Paris,  
6 rue de la Sorbonne, Paris 5<sup>e</sup> (tel.: Odéon 23-70)  
*Sec.*—Rosemary White, MA *Oxon.*, 29 Tavistock  
Square, London, W.C.1 (tel.: Euston 3263).

**TEACHING STAFF.** ENGL.—*Dir.* of Dept.—  
Mme Phyllis Bessarab, BA *Oxon.*; *St. Lectrs.*—  
H. O. Quick, BA *Leam.*, A. B. H. Allan, MA *Glos.*,  
M. Mortimer, BA *Dub.*, *Lectrs.*—Mme. Mar-  
garet W. Truffert, BA *Sheff.* (phonetics), E. R.  
Pratt, BA *Oxon.*, J. B. G. Cooper, BA *Br. Col.*,  
B. F. Farrington, BA *Dub.*, W. B. Harris, MA  
*Edin.*, Mme. Olga Champion, BSc *Leam.*, Mme.  
Shirley Marro, BA *Dub.*, Mme. Doris A.  
Blanchard, BA *Leam.*, J. Knowles, BA *R'dg.*,  
Mme. Paulette Lévy, Mme. Claude Blanchet.  
FRENCH *Dir.* of Dept.—A. Truffert; G. Blin,  
R. Ricatte (profes. at the Sorbonne), *Asst. Hd.*  
of Dept.—Mme. Odette Mettas, *Lectrs.*—J.  
Desseignat (vacation courses), Mme. Marguerite  
Peyriollas, Marguerite Prinot, H. Appia, V. Ber-  
nard, Mme. M. T. Forté-Guy, Mme. A. Humeau,  
Mme. L. Moussu, Mme. J. Pfander, M. G.  
Quenelle, G. Warrighien.

The inst. was founded in 1927 by joint Anglo-  
French initiative to provide practical courses in  
French and English complementary to the in-  
struction given in these subjects in the fac. of arts  
at the Sorbonne.

The dept. of Engl. organizes oral and corre-  
spondence courses for French univ. students of  
Engl. lang. and lit. (1st yr., *license* and *agrégation*  
levels) and for the Cambridge exams. in  
Engl. About 2000 students a yr. attend the  
English courses.

The dept. of French organizes courses from  
Oct. to June at school-leaving, undergrad. and  
res. levels, and Easter vacation courses for under-  
grads and sixth-formers. For British students  
spending a yr. in French schs. as assistants,  
a short introductory course is organized in the  
autumn, and a correspondence course during the  
academic yr. Enrolment figures for vacation  
courses in 1961-62 were: assistants, 280; Easter  
vacation courses, 63; sixth-formers, 349; "100

teachers who attended a refresher course in July  
sponsored by the ministry of education.

Membership of the Meyer-Sassoon library  
(15,000 vols.) and the students' club is open to all  
students of the inst., and applicants are welcomed  
from other students from British univs. Advice  
on lodgings is available for students attending  
the inst., and is offered when possible to other  
British students.

### BRITISH SCHOOL AT ROME

*Dir.*—J. B. Ward Peckins, CBE *Postal*  
*address*: Accademia Britannica, Valle Giulia,  
Rome 51. *Hon. general sec.*—W. D. Sturch, 1  
Lowther Gdns, London, S.W.7 (tel.: Kensington  
3665).

The sch. was establd. in 1901 as a sch. of  
archaeol. devoted to the study of the antiquities  
and hist. of Rome and Italy. In 1911 it was  
reconstituted to offer facilities also for practising  
students of archit., sculpture and painting. A  
royal charter of incorporation was granted in the  
following yr.

The sch. to-day includes 5 facs.: archaeol.,  
hist. & letters, archit.; painting; sculpture;  
engraving. The income of the sch. is derived  
partly from public funds, partly from the com-  
missioners for the exhibition of 1851, and partly  
from subscriptions and donations from univs.,  
clubs, socs. and private individuals.

Rome scholps. are offered in classical studies,  
in mediæval studies, and in each of the 4 facs.  
of the fine arts. Particulars of these and other  
scholps. attached to the sch. may be obtained from  
the hon. general sec. (see above).

The sch. is in no sense a teaching instn., and  
admission is normally restricted to winners of one  
of the above scholps. and to grad. students of the  
univs. and art schs. of the Commonwealth who  
are qualified to promote the objects of the sch.  
Accommod. is available for the staff and about 25  
students. There is a library of some 35,000 vols.  
The *Papers of the British Sch. at Rome* provide an  
annual account of the more important archaeol.  
and hist. researches of the sch.

**BRITISH SCHOOL OF ARCHÆOLOGY  
AT ATHENS**

*Dir.*—A. H. S. Megaw, CBE, MA, FSA.  
*Postal address.* British School of Archaeology,  
Odos Souedias 52, Athens. *Sec.*—Mrs M. J.  
Thornton, BA, 31-34 Gordon Square, London,  
W.C.1 (tel. : Euston 8029).

The sch. was founded in 1886. Its first aim is to promote the study of Greek archaeol. in all its aspects, incl. the study of the hist., religion, art and life of ancient Greece as revealed by the monuments and the exploration of ancient and medieval sites. Excavations in Greece have always been one of the principal activities of the sch., but it is also in the widest sense a sch. of classical studies, taking every period of Greek lang. and lit., from

the earliest age to the present day, as its province. With these ends in view, the sch. co-operates with univs., museums and other bodies in the United Kingdom and in other parts of the Commonwealth.

The sch. is largely residential. It admits holders of grad. studentships and travelling fellowships awarded by Commonwealth univs., and other persons who satisfy the managing cttee. that they qualify as students, including those of foreign univs. The academic session is from Nov. 1 to June 30. Students may begin work at any date but are normally required to reside for not less than 3 months.

The library contains some 20,000 archaeol. and other books, together with maps, plans and photographs.



## APPENDIX VI

# SHORT BIBLIOGRAPHY

The two lists which follow do not claim to be exhaustive and may be supplemented by reference to the 'Publications' paragraph in each university entry above and to the 'Further Information' section of each national introduction.

### PART ONE

This section lists books and reports of immediate interest which have appeared since the 1962 Yearbook went to press.

- Association des universités d'enseignement en français. Compte rendu du congrès de fondation, Montréal, Septembre 1961* (A.U.P.E.L.F., Montréal, 1962).
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- Education for Commonwealth Students in Britain*. P. Lancaster. (Fabian Commonwealth Bureau, London, 1962).
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- The Expanding University*. W. R. Niblett. (Faber & Faber, London, 1962).
- The Expansion of Higher Education: The American Example*. Professor W. H. G. Armytage. (Central Council of the Selby Oak Colleges, Birmingham, 1962).
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- Répertoire des laboratoires européens de recherches*

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- World Directory of Dental Schools.* (World Health Organization, Geneva, 1961).
- The World Role of Universities.* E. W. Weidner. (McGraw-Hill, New York, 1962).

## PART TWO

This list covers works of more than immediate interest, but for the most part does not include those already listed in Part I. It is divided into three sections: 'General and Reference Books', 'Reports' and 'Periodicals'. Books about single universities are not included.

## GENERAL AND REFERENCE BOOKS

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## APPENDIX VII

# COMMONWEALTH SCHOLARSHIP AND FELLOWSHIP PLAN

The Commonwealth Scholarship and Fellowship Plan was drawn up at Oxford in July 1959 at the Commonwealth Education Conference, a meeting of official delegates from the various countries convened by the United Kingdom government in accordance with a decision of Commonwealth Ministers at the Trade and Economic Conference held at Montreal in September 1958. The Montreal conference, in stressing the importance of education and training to the development of the different countries, had expressed the hope that they would be able to share with each other the advantages of education of all kinds and at all levels and had envisaged a scheme of 1000 scholarships, of which the United Kingdom undertook to provide one-half and Canada one-quarter. All the Commonwealth countries and most of the dependent territories were represented at the Oxford conference which, in addition to recommending arrangements for Commonwealth co-operation in such matters as technical training and the supply and training of teachers, worked out details of the Commonwealth Scholarship and Fellowship Plan to which effect has been given by decisions of the various governments. The progress of the scheme was reviewed at the second Commonwealth Education Conference held in New Delhi in January 1962. The conference, having surveyed the achievements of the Plan to date, confirmed with minor modifications the basis on which the Plan is being operated.

The Plan aims (as stated in the report of the Oxford conference) at enriching each country of the Commonwealth by enabling an increasing number of its ablest citizens to share the wide range of educational resources available throughout the Commonwealth and thus at promoting equality of educational opportunity at the highest level.

In general there are two kinds of awards—*Commonwealth Scholarships* which are normally intended for young graduates of high intellectual promise who may be expected to make a significant contribution to life in their own countries on their return from postgraduate study overseas, but which may be awarded for undergraduate study in cases where facilities for such study are not available in their own country, and *Commonwealth Visiting Fellowships* which are intended for a few senior scholars of established reputation and achievement. The main emphasis is on awards in the academic (including technological)

fields but the possibility is not excluded of some awards being made to people outside these fields who play important rôles in the life of their country.

The general basis of the Plan is that each Commonwealth country which is able to do so should institute Commonwealth Scholarships and Fellowships which may be held by men and women from other Commonwealth countries at its universities, colleges and other institutions of higher education. The following countries have instituted scholarships: the United Kingdom, Canada, Australia, New Zealand, India, Pakistan, Ceylon, Malaya, Nigeria, Cyprus, Sierra Leone, Jamaica, East Africa (awards being established jointly by the governments of Kenya, Tanganyika and Uganda), Federation of Rhodesia and Nyasaland, Hong Kong and Malta. Fellowships or awards for senior scholars and education administrators have so far been instituted by the United Kingdom, Australia, New Zealand, India and the Federation of Rhodesia and Nyasaland. Each awarding country (i.e. the country in which the award is tenable) is responsible for the administration of its own awards. Local assistance is provided by the nominating country (i.e. the country from which nominations are invited) in publicising awards and inviting applications from which to select nominations.

The value of the awards is determined by each awarding country and is set out in the prospectus of its awards. In general the emoluments include fares to and from the awarding country, payment of tuition fees, allowances for books, special clothing and local travel and a personal maintenance allowance. In some countries a marriage allowance is paid in addition. The normal period of tenure for a Commonwealth Scholarship is two academic years but in certain circumstances this period may be longer or shorter. Scholars are expected to return to their own countries on the completion of the tenure of the award.

The Commonwealth Scholarships offered by Australia—to take as an example the form given to its competition by one awarding country—are tenable at any Australian university and are open to men and women under 35; only Commonwealth citizens and British protected persons are eligible to apply. These awards are offered in other countries and territories on the basis of a series of 'national quotas'. Other awarding countries have announced similar but not identical

conditions, all of them publish their own notices for circulation in the countries from which applications by candidates are invited. These announcements (with closing dates) will normally be displayed in universities and colleges and (where appropriate) will appear in the local press.

The Plan has now become an established feature of the educational life of the Commonwealth. Full details of the operation of the scheme for the year April 1, 1961, to March 31, 1962, are given in the *Second Annual Report (1961-62) on the Commonwealth Scholarship and Fellowship Plan* prepared by the Association of Universities of the British Commonwealth and published by the Commonwealth Education Liaison Committee. The report summarizes the activities of each country under the scheme and in a series of tabular appendices analyses the competitions held during the year. The Table below shows that 724 awards were actually being held in the various awarding countries in the period covered by the report. The report shows that the great majority of awards have been given for postgraduate study, usually for a higher degree. The awards are, however, evenly distributed by subject, 175 being held in arts, 135 in social sciences, 153 in pure science and 141 in tech-

nology. The remainder are made up of 70 held in medicine, largely tenable in the United Kingdom, two in dentistry, 35 in agriculture and forestry and 13 in veterinary science. It is expected that the total number of awards held in the next year will reach the target of 1000, the stated aim of the Oxford conference. Competitions for awards tenable in 11 countries have been held during the year, and although there has been a fall in the number of applications submitted as compared with the previous year, many countries have indicated that there has been an increase in the number of well-qualified applicants and a corresponding stiffening of the local competitions for nomination to an awarding country.

Candidates for Commonwealth Scholarships offered by whatever awarding country are required to apply through the appropriate scholarship agency in their country of normal residence, i.e. a student who is already temporarily abroad in another country of the Commonwealth may not apply in that country for an award wherever tenable, but must lodge his application with the agency in the country where he ordinarily lives. It will then be considered in the local competition which is held to select candidates for nomination to the particular awarding country. On the other

(continued on opposite page)

COMMONWEALTH SCHOLARSHIPS  
held in awarding countries during the year ending March 31, 1962

	AWARDING COUNTRIES												Total
	United Kingdom	Canada	Australia	New Zealand	India	Pakistan	Ceylon	Malaya	Nigeria	Fed of Rhodesia & Nyasaland	East Africa	Hong Kong	
NOMINATING COUNTRIES	United Kingdom	—	23	7	4	1	1	1	1	1			38
	Canada	44	—	10	3	2							59
	Australia	36	10	—	1	1		2					53
	New Zealand	10	10	5	—							2	34
	India	73	30	6	2	—	2						113
	Pakistan	34	10	2	1	—							47
	Ceylon	11	8	2	2		—						23
	Ghana	6	10	3									19
	Malaya	12	6	5				—					23
	Nigeria	28	6	2					—				36
	Cyprus*	3											3
	Sierra Leone	3	4	2									9
	Tanganyika	4	2	5		2							13
	Jamaica	7	3	1							1		12
	Trinidad & Tobago	5	6										11
	Uganda	5	5	2	1						—		13
	Fed of Rhodesia & Nyasaland	10	6	2	1					—			19
	Dependent Territories	74	41	15	5	13			1	1		1	130
	South Africa	20	10	6	1				1	1			39
	Total	304	199	75	18	22	2	2	3	3	1	2	724

land, a citizen of one Commonwealth country who has established his permanent home in one of the other countries, must, irrespective of his legal citizenship, submit his application in his adopted country and be judged in the competition with the other applicants there.

Each country in the Commonwealth has designated a local agency for the Commonwealth Scholarship and Fellowship Plan to handle (a) the preliminary selection for nomination to recruiting countries and (b) the final selection from nominations submitted by recruiting countries for its own awards. These agencies also distribute to candidates prospectuses and application forms for the various awards and will, generally speaking, be the best local centres for information about details of the Plan. At the beginning of October 1962 the list of agencies in the principal countries and territories with their postal addresses was as follows (in dependent territories not mentioned enquiry should be made at the principal government education office):

**Aden:** Department of Education, Cities, Aden (Director of Education and Immigration)  
**Australia:** Commonwealth Office of Education, P.O. Box 210, North Sydney, N.S.W. Australia (Director)  
**Bahamas:** Civil Service Commission, Nassau, Bahamas (Chairman)  
**Barbados:** Ministry of Education, Government Headquarters, Bridgetown, Barbados (Permanent Secretary)  
**British Guiana:** Director of Education, P.O. Box 47, Georgetown, British Guiana  
**British Honduras:** Ministry of Education, Health and Housing, Belize, British Honduras (Principal Secretary)  
**Canada:** Canadian Universities Foundation, 75 Albert Street, Ottawa 4, Canada (Executive Director)  
**Ceylon:** Ministry of Education, 511 Street de Silva Mawatha, Colombo 3, Ceylon (Permanent Secretary)  
**Cyprus:** Ministry of Foreign Affairs, Nicosia, Cyprus  
**Ghana:** Scholarships Secretariat, P.O. Box 22, 55, Ministry Bypass Post Office, Accra, Ghana (Registrar of Scholarships)  
**Gibraltar:** Commonwealth Education Scholarships Committee, Department of Education, 100 Irish Town, Gibraltar (Secretary)  
**Hong Kong:** Department of Education, Battery Path, Hong Kong (Director of Education)  
**India:** Commonwealth Unit, Scholarships Division C-5, 3 (Cash), Ministry of Scientific Research and Cultural Affairs, Convent Road, New Delhi, India (Deputy Educational Adviser)  
**Jamaica:** Ministry of Education, P.O. Box 495, Kingston, Jamaica (Permanent Secretary)  
**Kenya:** Central Examinations Board, Ministry of Education, P.O. Box 3040, Nairobi, Kenya (Director)  
**Malaysia:** Ministry of Education, 141 St. Christopher's Street, Valletta, Malta  
**Malta:** Ministry of Education and Cultural Affairs, Port Louis, Mauritius (Principal Adviser Secretary)  
**New Zealand:** Commonwealth Scholarships and Fellowships Commission, University Grants Committee, University House, Bowen Street, Wellington, C.I. New Zealand (Chairman)  
**Nigeria:** Federal Scholarships Advisory Board, Federal Ministry of Education, Lagos, Nigeria (Chief Secretariat Adviser on Education)  
**North Borneo:** The Chief Secretary, Secretariat, Jesselton, North Borneo  
**Pakistan:** Ministry of Education, Government of Pakistan, Rawalpindi (Educational Adviser)  
**Papua New Guinea:** Federal Commonwealth Scholarships Board, Ministry of Education, P.O. Box 804, Port Moresby, Papua New Guinea (Secretary)

**Sarawak:** Scholarships Advisory Committee, Ministry of Education, Harwin Street, Kuching, Sarawak (Student Secretary)  
**Singapore:** Ministry of Education, Kay Sang Road, Singapore 25 (Permanent Secretary)  
**Tanzania:** Government Examinations Advisory Committee, Ministry of Education, P.O. Box 9221, Dar es Salaam, Tanzania (Permanent Secretary)  
**Tanzania & Zanzibar:** Ministry of Planning (Training Section), Whitehall, Port of Spain, Trinidad (Permanent Secretary)  
**Uganda:** Central Scholarships Selection Committee, P.O. Box 2918, Kampala, Uganda (Secretary)  
**United Kingdom:** Commonwealth Scholarships Commission in the United Kingdom, Marlborough House, Pall Mall, London, S.W.1 (Secretary)  
**Zanzibar:** Scholarships Selection Committee, c/o Department of Education, P.O. Box 104, Zanzibar (Secretary)

Information about the development of the schemes of educational co-operation within the Commonwealth as recommended at the Oxford or New Delhi conferences, other than the Commonwealth Scholarship and Fellowship Plan, may be obtained from the governments concerned or from the Commonwealth Education Liaison Unit, Marlborough House, Pall Mall, London, S.W.1. The following publications should be consulted for detailed information concerning the Plan:

*Report of the Commonwealth Education Conference at Oxford 1962* (H.M.S.O., London, 1959).

*First Annual Report (1960-61) on the Commonwealth Scholarship and Fellowship Plan* Prepared by the Association of Universities of the British Commonwealth (Commonwealth Education Liaison Committee, London, 1961).

*Second Annual Report (1961-62) on the Commonwealth Scholarship and Fellowship Plan* Prepared by the Association of Universities of the British Commonwealth (Commonwealth Education Liaison Committee, London, 1962).

*First Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1960* Cmd. 1541. (H.M.S.O., London, 1961).

*Second Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1961* (H.M.S.O., London, 1962).

*Third Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1962* (H.M.S.O., London, 1963).

*Report of Second Commonwealth Education Conference, New Delhi, 11-25 January 1962* (Ministry of Education, Government of India, 1962). [Also published in United Kingdom by H.M.S.O. for Ministry of Education: see p. 1609].

## APPENDIX VIII

# THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

The Association of Universities of the British Commonwealth is a voluntary society whose members are institutions of university standing in the various countries of the Commonwealth. A list of the 138 institutions in its current membership appears on pp. 1631-1633. The Association is at present a limited company incorporated under the Companies Acts of the United Kingdom.

**HISTORY** In 1912, on the initiative of the University of London, representatives of 53 universities assembled in London to hold a Congress of Universities of the Empire. One of their main decisions was that a bureau of information for the universities of the Empire should be established and that its affairs should be managed by a committee representing both home and overseas universities. The office of the Universities Bureau of the British Empire was accordingly opened in London in 1913. In 1919, the Bureau was incorporated under licence of the Board of Trade and a grant of £5,000 made by H.M. government for office premises on condition that the universities of the Empire undertook to provide adequate funds for maintenance.

The 1912 congress also planned that similar meetings should be held at five-yearly intervals. The Bureau (whose name was changed in 1948 to the Association of Universities of the British Commonwealth) has been responsible for organizing these congresses, which were in fact held in 1921, 1926, 1931, 1936, 1948, 1953 and 1958. The eighth Congress of the Universities of the Commonwealth, which was held in Montreal in 1958, and was the first in the series to take place outside the United Kingdom, was attended by 385 delegates, 102 member institutions being represented. The next congress, which will mark the jubilee of the Association, will be held in London in July 1963. Since 1948 a number of small conferences of heads of universities (usually comprising the 16-18 members of the executive council of the Association or their deputies) have been held in different parts of the Commonwealth to discuss matters of common interest arising between congresses.

The premises at 36 and 37 Gordon Square now housing the headquarters of the A.U.B.C. have been leased from the University of London since 1955. In 1961, on the invitation of the U.K.

government, a Branch Office of the Association was opened in the newly established Commonwealth Centre at Marlborough House, Pall Mall.

**INCOME AND CONTRIBUTION** The income of the Association is almost wholly derived from the annual subscriptions (at rates fixed according to their size) of Ordinary Members (universities), Associate Members (university colleges) and Additional Members (other institutions of recognized academic status), and from their contributions for special purposes.

The A.U.B.C.'s affairs are controlled by an executive council elected each year at an annual general meeting of members. Each member institution is entitled to be represented at this meeting by its executive head (vice-chancellor, president or principal) or by a personal deputy whom he may appoint. The meeting elects a council of 16 members to represent member universities in the different countries, and a chairman, vice-chairman and honorary treasurer are appointed by the new council. The chairman is the executive head of a member university, and is chosen from the different countries of the Commonwealth in turn, usually with regard to the venue of the principal executive meeting of the Association in the year concerned.

**AIM** The Association works in a variety of practical ways to implement its aim of serving the interests of the universities of the Commonwealth and, in particular, of promoting contact and co-operation between them. In addition to acting as an agent in London for individual member universities on their direct instructions, e.g. in relation to staff appointments, it provides general services such as those of its publications and information department, and makes a secretariat available for various bodies dealing with matters affecting its member institutions, such as the Commonwealth Scholarship Commission, the Marshall Aid Commemoration Commission and the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom.

**APPOINTMENTS** The Association provides an appointments service which gives university teachers and graduates the opportunity of hearing about teaching and research vacancies at universities in Commonwealth countries other than

then own, and of registering their claims to consideration for any particular post. Acting for overseas member institutions wishing to invite applications from other countries, the Association has established machinery whereby, as such vacancies occur, they can be regularly announced from London by public advertisement and through circulation to universities in the United Kingdom and other parts of the Commonwealth. In addition it manages, if requested, for applicants from the United Kingdom or from the continent of Europe to be interviewed in London by independent expert advisory committees, who then report to the university concerned on the suitability of the candidates.

In all these matters the Association acts on behalf of the particular member institution and in accordance with its specific instructions, it does not purport to be an appointments board or graduate placement agency with the general function of finding posts abroad for university teachers or graduates who might individually seek its services.

The appointments department, which deals with about 5000 enquiries each year, is one of the two sections of the office now located in the west wing of Marlborough House, where the Commonwealth Centre coordinates various agencies concerned with educational co-operation in the Commonwealth.

**SCHOLARSHIP SCHEMES.** Also located at the Branch Office in Marlborough House is the secretariat provided by the Association for the Commonwealth Scholarship Commission in the United Kingdom which is responsible for the administration in the U.K. of the Commonwealth Scholarship and Fellowship Plan, under which scholarship agencies have been set up in all Commonwealth countries. The commission has two main tasks: to select Commonwealth Scholars and Commonwealth Visiting Fellows and place them in universities and colleges in the United Kingdom, and to invite applications from United Kingdom candidates, and make nominations to the appropriate overseas agencies, for awards tenable in other Commonwealth countries. About 500 nominations are received annually from overseas countries for the Commonwealth Scholarships offered by the United Kingdom; from these, about 250 candidates are selected, and places found for them, by the commission. The commission deals each year with more than 200 U.K. applications for the scholarships being offered under the Plan by other Commonwealth countries, particulars of which are advertised in the press as well as being circulated to universities and other interested bodies. Detailed analyses of this work are published in the *Annual Reports of the Commonwealth Scholarship Commission in the United Kingdom* (H.M.S.O.).

In addition, the A.U.B.C. is responsible for gathering from all the participating countries annual statements on their activities under the

Plan, and for preparing the comprehensive report of the Plan's work and progress in the Commonwealth as a whole which appears in the *Annual Reports of the Commonwealth Scholarship and Fellowship Plan* published by the Commonwealth Education Liaison Committee.

The secretary of the Association also acts as executive secretary of the Marshall Aid Commemoration Commission, which was established by the U.K. government to award scholarships tenable at universities in the United Kingdom by selected students from the U.S.A. Twenty-four Marshall Scholarships are now offered for competition each year, and the services of the Association's office are made available for the task of placing the scholars and for their general supervision during their stay in the United Kingdom.

The Association concerns itself with the administration of other scholarships and grants provided by various bodies to enable students and teachers at its universities to go abroad for further work and study. At the request of Harvard University, the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom (see p. 1622) arranges the annual competition for the Frank Knox Memorial Fellowships tenable at Harvard by U.K. graduates. The Association also participates in the Commonwealth University Interchange Scheme, being represented (with the U.K. Committee of Vice-Chancellors and Principals and the Inter-University Council for Higher Education Overseas) on the committee which awards travel grants, administered by the British Council, to university workers making overseas visits within the Commonwealth.

**PUBLICATIONS AND INFORMATION.** From its beginning in 1912 the Association (then the Bureau) has regarded the provision of information on matters relating to universities as one of its major tasks. The main way in which the A.U.B.C.'s information service meets the need for facts about Commonwealth universities is by the production of the *Commonwealth Universities Yearbook* and other publications. The *Yearbook*, which in its fortieth (1963) edition will contain 1800 pages, has an international reputation as a work of reference. It is issued annually to provide, in a single volume and in a form suitable for quick consultation, the essential facts about Commonwealth universities needed by university teachers and administrators, students and others seeking detailed information about staff, organization, facilities and admission requirements.

Among the other publications of the Association are the *Reports of Proceedings of the Quinquennial Congresses of Universities of the Commonwealth*, *Higher Education in the United Kingdom: A Handbook for Students from Overseas* and their *Advisers*, which is produced every two years jointly with the British Council and contains in its 240 pages a directory to courses of study at universities and other institutions of higher education, together with details of admission

requirements, scholarships, cost of study and residence, etc., *United Kingdom Postgraduate Awards*, a biennial 150-page booklet listing fellowships and scholarships tenable at U.K. universities, which was first produced following a recommendation of the 1948 congress that there should be prepared in each Commonwealth country a list of postgraduate awards tenable at its universities by students from overseas. A list of Commonwealth universities and their addresses and the annual *Reports* of the executive council are also available as printed leaflets. In addition to the annual *Report of Proceedings of the Conference of the Universities of the United Kingdom*, the A.U.B.C. has published for the U.K. Committee of Vice-Chancellors and Principals special reports such as *Applications for Admission to Universities* (1957) by R. K. Kelsall, *Three Reports* (1958-61) of an *ad hoc* Committee on Procedure for Admission of Students and the *Report of a Sub-Committee on University Entrance Requirements in England and Wales* (1962), together with a *Code of Practice for the protection of persons exposed to Ionizing Radiation in University Laboratories* (1961).

With the co-operation of the registrars of U.K. universities, the Association compiles annually statistical information about the overseas students enrolled at universities in the United Kingdom. These statistics are published in leaflet form and appear also as an appendix of the *Yearbook*.

The information service receives a great many enquiries of varying kinds from universities, inter-university organizations, inter-governmental organizations, national government departments, industrial firms and members of university teaching staffs, as well as from students seeking information about facilities for study and research. In addition to requests for information about universities in Commonwealth countries overseas, these enquiries include many from home sources requiring answers about higher education and universities in Britain itself. Although in answering these queries the principal resources available to the staff consist of the material contributed by universities for the *Yearbook* and other publications, this is complemented by the Association's library of current university calendars, prospectuses and gazettes, by a good collection of international reference works on university matters published by other bodies, and by government reports, statistical publications, etc.

On questions of academic policy or administration, information which the Association has collected is also available. It is, because of the range and variety of its activities, in a position to procure authoritative information on many university problems.

A register is kept of the United Kingdom addresses of academic visitors from overseas, and through the co-operation of the registrars of overseas member institutions the Association is able to issue at regular intervals a list, which is widely circulated in the United Kingdom, of those academic visitors from other parts of the

Commonwealth who are either known to be in the United Kingdom or expected to arrive in the near future.

**U.K. COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS** A considerable part of the activity of the Association's office is centred in the work of the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom. This committee was first established in 1918, and the Association provides its secretariat under an arrangement whereby its member universities in the United Kingdom specially subsidize the Association as a centre for certain common academic activities there.

The committee is a consultative and advisory body with no executive powers. It considers matters of common interest to universities, and is not restricted to topics specifically referred to it. By its consultative activities and the nature of its membership the committee holds an influential position in university affairs, but its decisions cannot bind the universities. From time to time it sponsors special inquiries, the results of which are published by the Association on its behalf (see above). Each year the committee organizes in London a conference of the U.K. universities at which topics of current interest are discussed.

**INTERNATIONAL LINKS** The Association acts as a link between the local inter-university organizations in various other countries of the Commonwealth, such as the National Conference of Canadian Universities and Colleges, the Australian Vice-Chancellors' Committee, the New Zealand Vice-Chancellors' Committee, the Inter-University Boards of India and Pakistan, and the Inter-University Council for Higher Education Overseas which is located in Britain. The Association is likewise in regular contact with similar national bodies in Europe and in the U.S.A., and with Unesco and the International Association of Universities (of which the A.U.B.C. is an associate member). The secretary of the A.U.B.C. is also the national secretary of the British delegation to the Council of Europe's Committee for Higher Education and Research.

Under an arrangement made with the Association by the French Ministry of National Education, the French university authorities will admit without further examination any candidate whose examination certificates have been attested by the A.U.B.C. as satisfying the minimum requirements for admission to a degree course at a British university. The Association is also the issuing authority for U.K. university teachers and post-graduate students who wish to carry Council of Europe cultural identity cards while travelling abroad on academic work.

\* \* \*

This general outline of the practical ways in which the Association works can be supplemented by reference to the detailed annual *Reports* of the executive council.

The Association exists as a manifestation of a

wish on the part of the universities of the Commonwealth for co-operation in various aspects of academic activity, but from its beginning the principle was laid down that the institution of a central bureau must not involve any attempt to standardise academic practices, procedures and methods of universities. This was confirmed at the 1931 congress when it was resolved that: 'The powers of the Association shall not be exercised in any such way as to restrict the powers

and duties exercised by the constituent members under the several charters, statutes, regulations and other instruments of their self-government'. The Association's objective as an administrative unit is to act always in the interests of its member institutions, in accordance either with their collective policy or their individual instructions, and to adapt its practice to their requirements in whatever ways may be considered useful and desirable.

*General Office:*

36 Gordon Square,  
London, W.C.1  
Telephone: Euston 8572.

*Branch Office (Commonwealth*

*Scholarships and Appointments):*  
Marlborough House,  
Pall Mall, London, S.W. 1  
Telephone: Whitehall 6617

Inland Telegrams: Uniburb, Westcent, London

Foreign Telegrams: Uniburb, London

*Note—The names of the present officers and executive council of the A.U.B.C. are given on p. vii. An historical list of office-bearers appears on pp. iv-x.*

## MEMORANDUM AND ARTICLES OF ASSOCIATION

### THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

*(The word 'Landed' being omitted by Licence of the Board of Trade)*

#### MEMORANDUM OF ASSOCIATION

1. The name of the Association is 'THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH'.

2. The registered office of the Association will be situated in England.

3. The objects for which the Association is established are:

- (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
- (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Commonwealth.
- (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other

public bodies and learned institutions and societies of the British Commonwealth and the Governments, Universities and other bodies of foreign countries.

- (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
- (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom and for any other Committees which the Universities may from time to time appoint.
- (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Commonwealth or in any foreign country or state, to form centres and



secretariats for the work and activities of the Association

- (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connection with the carrying out of its objects
- (8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means
- (9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association
- (10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments
- (11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities, and in such manner as may from time to time be deemed expedient, provided that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners or Ministry of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law.
- (12) To borrow or raise money for the purposes of or in connection with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient
- (13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Commonwealth or any of them.
- (14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them.

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Ministry of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts,

neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Charity Division, the Charity Commissioners or the Ministry of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4. The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association, and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association.

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent. per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association, but so that no member of the Executive Council or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Association to any member of such Council or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a member of the Executive Council or Governing Body may be a member or any other company in which such member shall not hold more than one-hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade.

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.
8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributors amongst themselves, such amount as may be required not exceeding One Pound.
9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or

by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10. True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

## ARTICLES OF ASSOCIATION

### PRELIMINARY

1. The number of the Members of the Association is declared not to exceed 150, but the Council may at any time register an increase in the number of the Members.
2. These Articles shall be construed with reference to the provisions of the Companies Act, 1948, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act.
3. The Association is established for the purposes expressed in the Memorandum of Association.

### MEMBERSHIP

4. The Members of the Association shall consist of corporate bodies with the following status.
- (a) *Ordinary Members* who shall be (i) the Universities specified in Schedule A attached to these Articles, and (ii) such Universities situate within the Commonwealth as are admitted Members by the Council in accordance with such regulations as may be framed by the Council in this behalf.
- (b) *Associate Members* who shall be such Universities in Mandated or Trust Territories of the United Kingdom or of any other Commonwealth country and such other institutions being University Colleges or Colleges of Universities within the Commonwealth (being corporate bodies), as may hereafter be admitted Members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.
- (c) *Such other classes of Members* (consisting of

corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association.

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative provided that if it has an officer such as Principal President or Vice-Chancellor whom it recognizes as its executive head it shall nominate him. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place. If a representative being the executive head of a Member ceases to hold the office by virtue of which he was nominated he shall cease to be the representative and the Member shall nominate his successor in such office as its representative.

7a. The representative of any Member may nominate in writing deputed with the Secretary a deputy to act for him during any period for which he gives notice in such writing, during such period for the purposes of these Articles any deputy so nominated shall be entitled to act as if he were the representative, and the Association shall be entitled to treat him as the representative, and anything done or suffered by him shall be deemed to have been done or suffered by the representative, whether (should the representative be at the time one of the persons appointed to the Executive Council) in relation to the business of the Executive Council or otherwise.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be readmitted to membership upon payment of the subscription for the year during which its membership lapsed.

#### DUTIES OF MEMBERS

11. Every Member of the Association shall be bound:

- (a) To pay to the Association such minimum annual subscriptions for the various classes of Members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.
- (b) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

#### COUNCIL OF THE ASSOCIATION

12. The Executive of the Association shall be a Council consisting of 16 persons chosen from among the representatives of Members so that Members of the classes specified in the second column of the following table and situate in each of the countries or groups of countries mentioned in the first column shall together be entitled to nominate the number of representatives respectively shown in the third column.

<i>Members within—</i>	<i>Class of Member</i>	<i>No. of Representatives</i>
The United Kingdom . . .	Ordinary	4
Canada . . .	Ordinary	2
Australia . . .	Ordinary	2
New Zealand . . .	Ordinary	1
South Africa . . .	Ordinary	2
India and Ceylon . . .	Ordinary	2
Pakistan . . .	Ordinary	1
Other Parts of the Commonwealth	Ordinary and Associate	2

13. (a) The nominations required by Article 12 shall be made by such inter-University organizations as the Council shall by regulation declare to be appropriate to the said countries or groups of countries.

(b) The Association in General Meeting shall appoint the representatives so nominated to be members of the Council until the next General Meeting, when they shall be eligible for re-nomination and reappointment. If there shall be less than 16 nominations then the General Meeting shall appoint sufficient representatives to be members of the Council to complete that number having regard to the proportions set out in Article 12.

14. The office of a member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association.

15. Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7. The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13.

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among members of the Council, but if the number of members of the Council shall be reduced below 13 the continuing members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association.

17. The Council shall manage and control all matters relating to the management and organization of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1948, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting; but no regulation made by the Association in

General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Commonwealth and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities, but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council shall elect annually a Chairman of the Association and an Honorary Treasurer of the Association; and if the person appointed to be Chairman of the Association for any year represents a country other than the United Kingdom the Council shall for each such year appoint a Vice-Chairman of the Association who shall be a person resident in the United Kingdom. If the persons elected as Chairman, Vice-Chairman and Treasurer are not already members of the Executive Council they shall become members for the period during which they hold office.

20A. At every meeting of the Council the Chairman of the Association, if present, shall preside. If the Chairman of the Association is absent, then the Vice-Chairman of the Association shall preside. In the absence of the Chairman and Vice-Chairman, the members of the Council shall choose one of the members of the Council then present to preside at that meeting.

21. The Chairman of the Association and the Vice-Chairman of the Association may at any time, and the Secretary upon the request of six members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each member of the Council shall name an address at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of

Association for the time being vested in or exercisable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (a) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (b) particularly for the following purposes:

- (1) for admitting Universities which may hereafter become corporations;
- (2) for admitting as Associate Members Corporations which are Universities in the United Kingdom or of any other Commonwealth country and other institutions, being University Colleges or Colleges of Universities within the Commonwealth;
- (3) for assigning privileges of membership to (a) Associate Members and (b) other classes of Members;
- (4) for prescribing a form to be signed by Members prior to admission as Members;
- (5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives;
- (6) for managing the business and defining the duties of the Association;
- (7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles;
- (8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19;
- (9) for arranging for the provision of secretarial assistance to such Committees; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned;
- (10) for determining the period for which the

Chairman, Vice-Chairman and Honorary Treasurer of the Association are to hold office;

- (11) for defining the manner in which the Minutes of business transacted at meetings of the Association are to be recorded;
- (12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached;
- (13) for prescribing the form in which instruments appointing proxies shall be framed;
- (14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 6e;
- (15) for prescribing the place at which such books of account shall be kept.

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration or addition to these Articles as could only lawfully be made by Special Resolution.

#### MINUTES

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof.

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

#### SEAL

32. The Council shall provide for the safe custody of the seal, and the seal shall never be used except by the authority of the Council previously given, and in the presence of a member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council.

#### GENERAL MEETINGS

33. A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting.

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the

Empire or within three days of the commencement or termination of that Congress.

36. Notwithstanding any provisions to the contrary in these Articles the Chairman of the Association or in his absence the Vice-Chairman of the Association shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held.

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Association or in his absence abroad by the Vice-Chairman of the Association summon an Extraordinary Meeting.

38. Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one-half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be—

(a) To receive and consider the accounts, the balance-sheet and the reports of the Council and the Auditors.

(b) To appoint an Auditor or Auditors and fix his or their remuneration.

(c) To appoint the members of Council in accordance with the provisions of Article 13. All other business transacted at an Ordinary Meeting and all business transacted at an Extraordinary Meeting shall be deemed special. If any Member has any proposal or any matter which he wishes to make or bring before an Ordinary Meeting he shall give fourteen days' written notice thereof to the Secretary.

41. Subject to the provisions of Section 14(3) of the Companies Act, 1948, relating to Special Resolutions, twenty-eight days' notice at the least (or in the case of a meeting convened pursuant to a requisition of Members fourteen days' notice at the least) exclusive of the day of giving the notice but inclusive of the day of the meeting, specifying the place, the day and hour of meeting and (in case of special business) the general nature of such business, shall be given by notice to the Members in manner hereinafter stated with reference to the giving of notices, but the accidental omission to

give such notice to or the non-receipt of such notice by any Member shall not invalidate the proceedings of any meeting.

42. Except as otherwise provided by these presents no business shall be transacted at any General Meeting unless a quorum of representatives of Members entitled to vote is present at the time when the meeting proceeds to business.

43. A quorum shall consist of ten representatives of Ordinary Members.

44. If within half an hour from the time appointed for a meeting ten representatives of Ordinary Members entitled to vote are not present the meeting if convened upon a requisition of Members shall be dissolved but in any other case it shall stand adjourned to a place to be fixed by the Chairman of the Association or in his absence abroad by the Vice-Chairman of the Association and to a date to be fixed by the Chairman or Vice-Chairman (as the case may be) not earlier than two weeks and not later than one month after the date of the original meeting, and if at such adjourned meeting a quorum is not present but two or more representatives of Ordinary Members entitled to vote are present the representatives of Members present entitled to vote shall be a quorum and may transact the business for which the original meeting was called.

45. At any adjourned General Meeting the representatives of Ordinary Members present entitled to vote being two or more in number shall have the power to decide upon all matters which could properly have been disposed of at the meeting from which the adjournment took place had a sufficient number of representatives of Members entitled to vote been present at such meeting. Notice of the time and place fixed by the Chairman of the Association or the Vice-Chairman of the Association (as the case may be) for an adjourned meeting shall be given to all Members entitled to receive notices of meetings.

46. The Chairman of the Association if present shall be the Chairman of every General Meeting, but if the Chairman of the Association is absent then the Vice-Chairman shall preside and if neither the Chairman nor the Vice-Chairman is present the representatives of Members present at the meeting and entitled to vote shall choose a representative entitled to vote to act as Chairman in his place.

47. The Chairman may upon the resolution of the meeting adjourn any meeting from time to time and from place to place but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.

48. No poll shall be demanded on the appointment of a Chairman or on a question of adjournment.

49. At any General Meeting unless a poll is demanded by at least two representatives of Members entitled to vote a declaration by the Chairman that a resolution has been carried or has been carried unanimously or by a particular majority or lost or not carried by a particular

majority and an entry to that effect in the book of proceedings of the Association shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against such resolution.

50. If a poll is demanded by two or more representatives of Members entitled to vote it shall be taken in such manner as the Chairman directs and he shall have power to take the poll at once at the meeting or to adjourn the meeting for a reasonable time not exceeding fourteen days for the purpose of taking such poll, and the result of such poll shall be deemed to be the resolution of the Association in General Meeting. In case of an equality of votes at any General Meeting the Chairman shall be entitled to a second vote or casting vote.

51. Minutes of all resolutions and proceedings at General Meetings signed by any person purporting to be the Chairman of the Meeting at which such Minutes were signed as correctly recorded, shall be conclusive evidence of the facts therein stated.

52. Nothing in these Articles shall preclude the Council from inviting any member of the teaching or administrative staff of a corporation or institution, which is an Ordinary Member or an Associate Member, to attend a General or Extraordinary Meeting of the Association, or any meeting of the Council or Committees thereof, provided that any person so attending any meeting shall not be entitled to vote at such meeting or to participate in any discussion on any subject other than that for the discussion of which he has been invited to attend.

#### VOTES AT GENERAL MEETINGS

53. Every Member entitled to vote represented directly or by proxy shall have one vote and no more at a General Meeting except the Chairman, who shall, in case of an equality of votes, have a second or casting vote.

54. Votes may be given either personally by the representative of a Member or by proxy given by such representative.

55. The instrument appointing a proxy shall be in writing under the hand of the appointer and may be in the following form:

I, \_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_ being the duly authorized representative of \_\_\_\_\_ a Member of the Association of Universities of the British Commonwealth hereby appoint \_\_\_\_\_ as my proxy to vote for me and on my behalf at the (Ordinary or Extraordinary or adjourned as the case may be) General Meeting of the Association to be held on the \_\_\_\_\_ day of \_\_\_\_\_ and at any adjournment thereof.

SIGNED this \_\_\_\_\_ day of \_\_\_\_\_ Or in such other form as the Council shall approve.

56. Only representatives of Members entitled to vote shall be appointed proxies.

57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered, and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

#### ACCOUNTS

60. The Council shall cause proper books of account to be kept with respect to—

- (a) all sums of money received and expended by the Association and the moneys in respect of which the receipts and expenditure take place, provided that receipts and expenditure in connection with the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom and with any other Committees or societies of these Universities shall be shown separately;
- (b) all sales and purchases of goods by the Association;
- (c) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 148 of the Act 1948, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

#### AUDIT

64. Auditors shall be appointed and their duties regulated in accordance with Sections 159, 160, 161 and 162 of the Companies Act, 1948.

#### NOTICES

65. A notice may be given by the Association to any Member either personally to the represen-

tative of such Member or by sending it by post to such representative to his address. Every representative of a Member shall furnish to the Association an address at which notices may be served.

66. (a) Where a notice is sent by post to an address in the United Kingdom or the Republic of Ireland, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected by the second day after that on which it was posted.

(b) Where a notice is sent by post to an address outside the United Kingdom or the Republic of Ireland, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting by airmail a letter containing the notice, and, unless the contrary is proved, to have been effected by the eighth day after that on which it was posted.

#### SCHEDULE A. (Vide Article 4 (a))

##### UNIVERSITIES OF THE UNITED KINGDOM

*England and Wales.* Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Nottingham, Oxford, Reading, Sheffield, Southampton, Wales.

*Scotland.* Aberdeen, Edinburgh, Glasgow, St. Andrews.

*Northern Ireland.* The Queen's University of Belfast.

##### UNIVERSITIES OVERSEAS

*Canada.* Acadia, Alberta, British Columbia, Carleton College, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Mount Allison, New Brunswick, Queen's, Saskatchewan, Sir George Williams College, St. Francis Xavier, Toronto, Western Ontario.

*Australia.* Adelaide, Australian National University, Melbourne, New South Wales University of Technology, Queensland, Sydney, Tasmania, Western Australia.

*New Zealand.* The University of New Zealand.

*South Africa.* Cape Town, Natal, Orange Free State, Potchefstroom, Pretoria, Rhodes, South Africa, Stellenbosch, Witwatersrand.

*Ceylon.* The University of Ceylon.

*India.* Allahabad, Andhra, Annamalai, Maharaja Sayajirao University of Baroda, Banaras Hindu University, Bihar, Bombay, Calcutta, Delhi, Jamia and Kashmir, Lucknow, Madras, Mysore, Nagpur, Orissa, Panjab (India), Patna, Rajputana, Roorky, Saugar, Travancore, Utkal.

*Pakistan.* Dacca, Karachi, Panjab (Lahore), Peshawar, Sind.

*Other Parts of the Commonwealth.* Hong Kong, Malaysia, The Royal University of Malta.

## MEMBER INSTITUTIONS OF THE A.U.B.C.

## AND THEIR REPRESENTATIVES

(as at February 1, 1963)

For Executive Council, see p. viii

## (i) Ordinary Members

## UNITED KINGDOM

<i>University</i>	<i>Representative</i>
Birmingham . . . . .	Sir Robert Aitken, MD DPhil LLD DSc DCL, FRCP, FRCPEd, FRACP
Bristol . . . . .	Sir Philip Morris, KCMG, CBE, MA LLD
Cambridge . . . . .	Sir Ivor Jennings, KBE, QC, LLD LittD, FBA
Durham . . . . .	D. G. Christopherson, OBE, DPhil, FRs, MIMechE
Exeter . . . . .	Sir James Cook, DSc PhD ScD DU, FRIC, FRs
Hull . . . . .	Brynmor Jones, BSc PhD ScD, FRIC
Keele . . . . .	H. M. Taylor, CBE, TD, MSc MA PhD, FSA
Leeds . . . . .	Sir Charles Morris, KCMG, MA LLD DLitt
Leicester . . . . .	T. A. Fraser Noble, MBE, MA
Liverpool . . . . .	Sir James Mountford, MA DLitt LittD LLD DCL
London . . . . .	Sir Douglas Logan, MA DPhil DCL LLD
Manchester . . . . .	Professor W. Mansfield Cooper, LL.M.
Nottingham . . . . .	B. L. Hallward, MA
Oxford . . . . .	W. F. Oakeshott, MA LLD, FSA
Reading . . . . .	Sir John Wolfenden, CBE, MA
Sheffield . . . . .	J. M. Whitaker, MA DSc, FRs
Southampton . . . . .	D. G. James, MA LLD DLitt
Sussex . . . . .	J. S. Fulson, MA
Wales . . . . .	T. Parry, MA DLitt, FBA
Aberdeen . . . . .	Professor E. M. Wright, MA DPhil
Edinburgh . . . . .	Sir Edward Appleton, GBE, KCB, MA DSc ScD LLD LittD DU, FRCSEd, FRs
Glasgow . . . . .	C. H. Wilson, MA LLD
St. Andrews . . . . .	Sir Malcolm Knox, MA LLD
The Queen's, Belfast . . . . .	M. Grant, CBE, MA LittD, FSA

## CANADA

Acadia . . . . .	W. Kirkconnell, MA PhD LLD DPhil DLitt LittD LHD DScL, FRAI, FRHistS, FRSCan
Alberta . . . . .	W. H. Johns, BA PhD LLD
Assumption . . . . .	Rev. E. C. LeBel, CD, MA LLD
British Columbia . . . . .	J. B. Macdonald, DDS MSc AM PhD
Carleton . . . . .	A. D. Dunton, DSc LLD
Dalhousie . . . . .	A. E. Kerr, BA DD LLD
King's College . . . . .	Rev. Canon H. L. Puxley, MA LTh DD
Laval . . . . .	Mgr. L. A. Vachon, DTh DPs
McGill . . . . .	H. R. Robertson, BSc MD CM
McMaster . . . . .	H. G. Thode, MBE, PhD LLD DSc, FRs, FRSCan, FCIC
Manitoba . . . . .	H. H. Sanderson, BA MSc PhD LLD, FCIC
Memorial University of New- foundland . . . . .	R. Gushue, CBE, QC, LLD DCnL
Montreal . . . . .	Rt. Rev. Mgr. I. Lusser, LLD LTh LPh
Mount Allison . . . . .	W. S. H. Crawford, MA PhD
New Brunswick . . . . .	C. B. Mackay, BA LLD DCL
Ottawa . . . . .	Very Rev. H. F. Lagaré, BA DScSc LLD
Queen's, Kingston . . . . .	J. A. Cosry, BCL LLD, FRSCan
St. Dunstan's . . . . .	Rt. Rev. J. A. Sullivan, MA
St. Francis Xavier . . . . .	Rt. Rev. H. J. Somers, PhD DLitt, FRHistS



<i>University</i>	<i>Representative</i>
St. Mary's . . . . .	Very Rev. C. J. Fischer, SThL
Saskatchewan . . . . .	J. W. T. Spinks, MBE, PhD DSc LLD, FRSCan
St. George Williams . . . . .	R. C. Rae, BA BSW STh
Toronto . . . . .	C. T. Russell, MA PhD DLitt LLD, FRSCan
Waterloo . . . . .	J. G. Hagey, BA LLD
Waterloo Lutheran . . . . .	Rev. W. J. Villeneuve, BA BD STM MS PhD
Western Ontario . . . . .	G. E. Hall, AFC, MSA MD PhD DSc LLD, FRSCan

## AUSTRALIA

Adelaide . . . . .	H. B. Basten, CMG, MA
Australian National University . . . . .	Professor L. G. H. Huxley, MA DPhil DSc, FIP, FAA
Melbourne . . . . .	Professor Sir George Paton, MA DCL LLD
Monash . . . . .	J. A. L. Matheson, MBE, MSc PhD MCE, MICE
New England . . . . .	R. B. Madgwick, OBE, MEd DPhil DLitt LLD
New South Wales . . . . .	J. P. Baxter, CMG, OBE, BSc PhD, FAA, FRACI
Queensland . . . . .	Professor Sir Fred Schonell, MA PhD DLitt, FRP&S
Sydney . . . . .	S. H. Roberts, CMG, MA LittD DLitt LLD DSc(Econ) DCL
Tasmania . . . . .	K. S. Isles, BCom MA MSc
Western Australia . . . . .	E. L. Prescott, OBE, MSc

## NEW ZEALAND

Auckland . . . . .	K. J. Maidment, MA
Canterbury . . . . .	L. L. Pownall, MA PhD
Otago . . . . .	F. G. Soper, CBE, PhD DSc, FRIC, FRSNZ, FNZIC
Victoria, Wellington . . . . .	J. Williams, PhD LLD

## SOUTH AFRICA

Cape Town . . . . .	J. P. Dummy, MA BSc
Natal . . . . .	E. G. Mailhebe, MA PhD LLD
Orange Free State . . . . .	Professor P. W. G. Groenewoud, MSc DPhil
Potchefstroom . . . . .	Professor J. C. Coetzee, MA MEd DPhil, FRP&S
Pretoria . . . . .	C. H. Rautenbach, MA BD DU DPhil
Rhodes . . . . .	T. Alty, PhD DSc DCL LLD, FIP, FRSCan
South Africa . . . . .	Professor S. Pauw, BSc MA DPhil
Stellenbosch . . . . .	H. B. Thom, MA DPhil
Witwatersrand . . . . .	L. D. MacCione, MA DPhil

## INDIA

Agro . . . . .	P. D. Gupta, MA
Aligarh . . . . .	B. P. H. B. Tyabji
Aligarh . . . . .	B. Friend, DSc, FNI
Andam . . . . .	A. L. Narayan, MA DSc, FIP
Armenia . . . . .	C. P. Ramaswami Aiyar, LLD DLitt
Banora . . . . .	Lt.-Col. N. H. Bhagwati, MA LLB
Baroda . . . . .	J. M. Mehta, MA PhD
Bihar . . . . .	F. L. Shrivastava, MA DPhil, FNI
Bombay . . . . .	V. R. Khoskar, BSc MD, FNI
Calcutta . . . . .	B. Mallick
Delhi . . . . .	C. D. Deshmukh, CJE, BA
Ganithpur . . . . .	A. C. Chatterji, DSc Dling
Jabalpur . . . . .	V. R. Sen, MA BSc LLB
Jadavpur . . . . .	T. Sen, Dling, MIE(India)
Jammu and Kashmir . . . . .	Bardar K. M. Panikar, MA DLitt LLD
Kanata . . . . .	D. C. Pavate, MA
Kerala . . . . .	S. Mathas, MA
Madras . . . . .	Sir A. Lakshmanaswami Mudaliar, BA MD LLD DSc DCI, FRCOG, FACS
Marathwada . . . . .	S. R. Dongertery, BA LLB
Mysore . . . . .	N. A. Nigam, MA

# ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH 1933

University	Representative
Omanin	D. Sadasiva Reddy, MA DLitt
Panjab, Chandigarh	A. C. Joshi, DSc, FNI
Patna	G. Jacob, MA MSc PhD
Rajasthan	M. S. Mehta, MA LLB PhD
Roorkee	G. Pande, CE, MIE(India)
Sardar Vallabhbhai Vastupeth	M. D. Patel, MSc PhD
Saugar	G. P. Bharti, BSc LLB
S.N.D.T. Women's	Mrs. Premila V. Thackersey, DLitt
Sri Venkateswara	S. Govindarajulu, MA LLB BL
Utkal	Col.-Commandant P. P. Pajja, OBE, MA DSc, FNI
Vikram	G. L. Datta, MA PhD

## CEYLON

Ceylon	Sir Nicholas Attygalle, LMS DSc LL.D, FRCS, FRCOG
Vidyafanindra	Ven. K. Premasara, LL.D
Vidyodaya	Ven. W. Senarata, DLitt

## PAKISTAN

Dacca	M. Husain, PhD
Karachi	I. H. Qureshi, MA PhD
Panjab, Lahore	Mr. Justice M. Sheraf
Peshawar	Mohammad Ali, BA LLB
Rajshahi	M. Ahmed, MA PhD
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# GENERAL INDEX

[For index to the names of teaching staff and administrative officers, see pp. 1673-1826]

The General Index contains references to institutions, to subjects of study, and to such topics as Admission, Degrees, Vacation Courses, etc.

In each university entry in the book, only the first page on which a subject of study is mentioned is indexed, the several colleges, etc., of a federal university being treated as separate entries. This single reference is usually to a departmental heading, or bracketed subject beside a status, in the staff list, but a further (unindexed) mention of the subject may also be found in each paragraph as 'First Degrees' or 'Diplomas' in the section of General Information for that university.

Although, under the heading of 'Medicine', a reference is given in the index to each medical school or faculty, subjects which normally form part of the course for a degree in medicine are not indexed separately. Such subjects are: anatomy, bacteriology, dermatology, forensic medicine, gynaecology, obstetrics, ophthalmology, orthopaedics, oto-rhino-laryngology, paediatrics, pathology, physiology, surgery, tuberculosis, venereal diseases.

Similarly, although a reference is given in the index, under the heading of 'Dentistry', to each dental school or faculty, subjects which normally form part of the course for a degree in dentistry are not indexed separately. Subjects normally forming part of the course for a degree in veterinary science are treated in the same way.

The indexing of subjects which may be studied at all, or almost all, universities is limited to the indexing of references in the several national introductions. Such subjects are: biochemistry, biology, botany, chemistry, classics (Greek and Latin), economics (political economy), education, engineering (also civil, electrical and mechanical engineering), English, French, geography, geology, German, history, law, mathematics (also pure and applied mathematics), music, philosophy, physics, politics (political science), psychology, social studies, zoology. It should, however, be noted that the less common branches of these subjects (e.g.: agricultural chemistry, music, African) are fully indexed in the way described in paragraph two above.

ABBREVIATIONS: Aust=Australia, Basut=Basutoland, Can=Canada, Ceyl=Ceylon, E.Af=East Africa, Gh=Ghana, HK=Hong Kong, Ind=India, Mal=Malaya, NZ=New Zealand, Nig=Nigeria, Pak=Pakistan, R & N=Federation of Rhodesia & Nyasaland, SL=Sierra Leone, Sing=Singapore, UK=United Kingdom, W.I.=West Indies, R of Ireland=Republic of Ireland, S.A.=South Africa, App=Appendix.

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